

Appendix B – System Check Plots

Test Date : 2025-06-12 | Ambient Temp : 22.1 °C | Tissue Temp : 21.6

System Performance Check**System Performance Check at 13.56 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	CLA13	1407	30.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	13.560	18.17	0.731	52.7

Hardware Setup

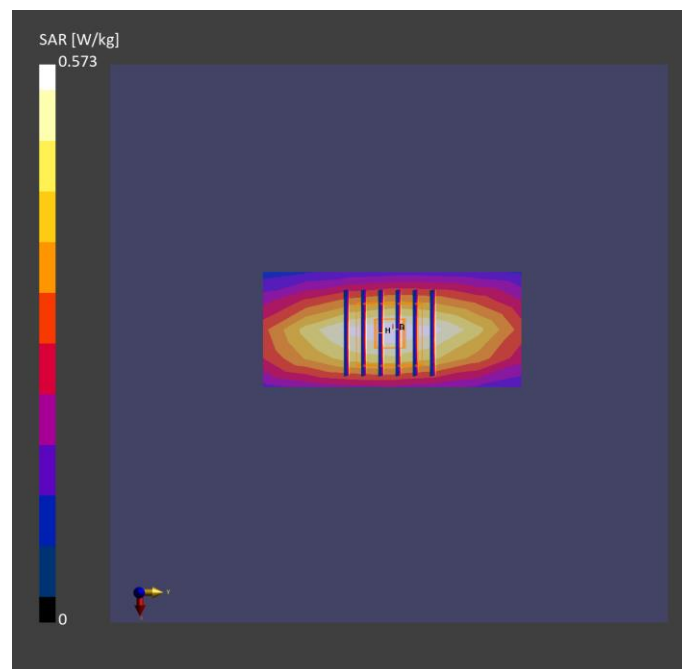
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7650 / 2025-06-10	DAE4 Sn1669 / 2025-05-19
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.544	0.518
psSAR-10g [W/kg]	0.436	0.321
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only



Test Date : 2025-05-21 | Ambient Temp : 21.3 °C | Tissue Temp : 21.2 °C

System Performance Check**System Performance Check at 750 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D750V3	1222	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	750.000	9.37	0.925	40.0

Hardware Setup

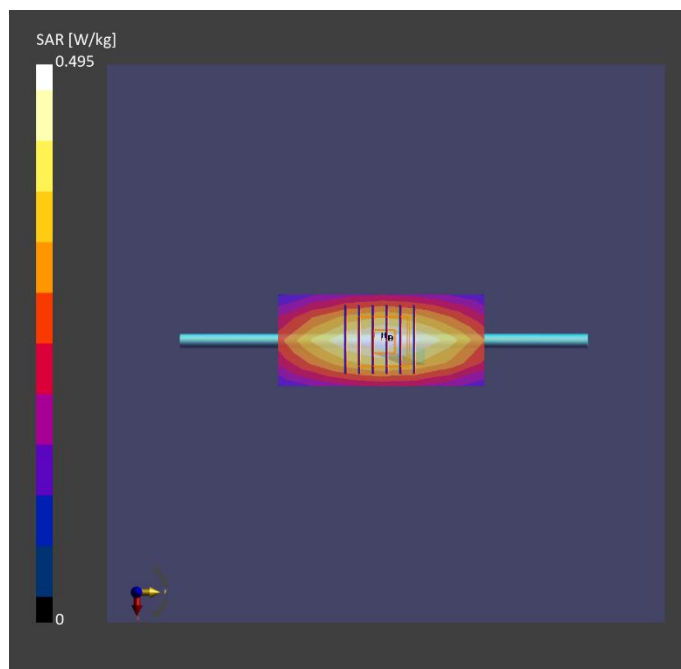
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.428	0.424
psSAR-10g [W/kg]	0.284	0.280
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-20 | Ambient Temp : 21.7 °C | Tissue Temp : 21.5 °C

System Performance Check**System Performance Check at 835 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D835V2	4d291	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	835.000	9.15	0.950	39.8

Hardware Setup

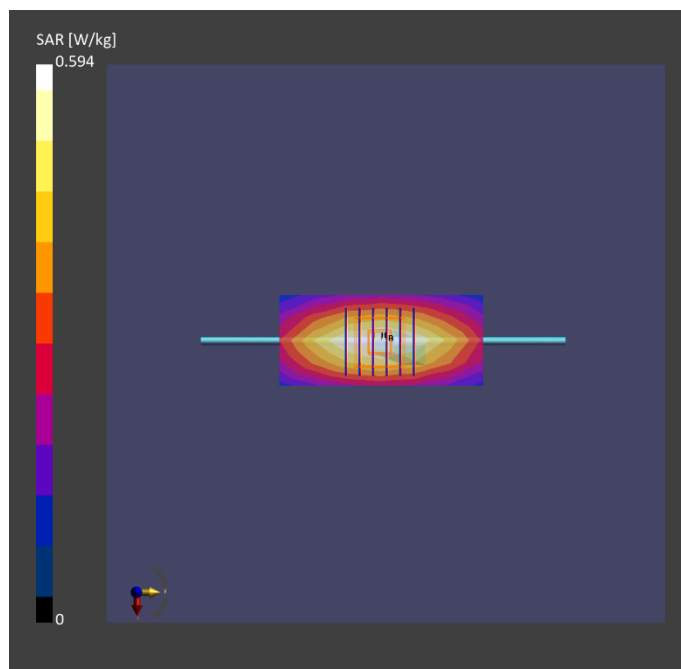
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	0.513	0.508
psSAR-10g [W/kg]	0.337	0.332
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-19 | Ambient Temp : 21.4 °C | Tissue Temp : 21.1 °C

System Performance Check**System Performance Check at 1800 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D1800V2	2d167	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	1800.000	7.9	1.38	37.9

Hardware Setup

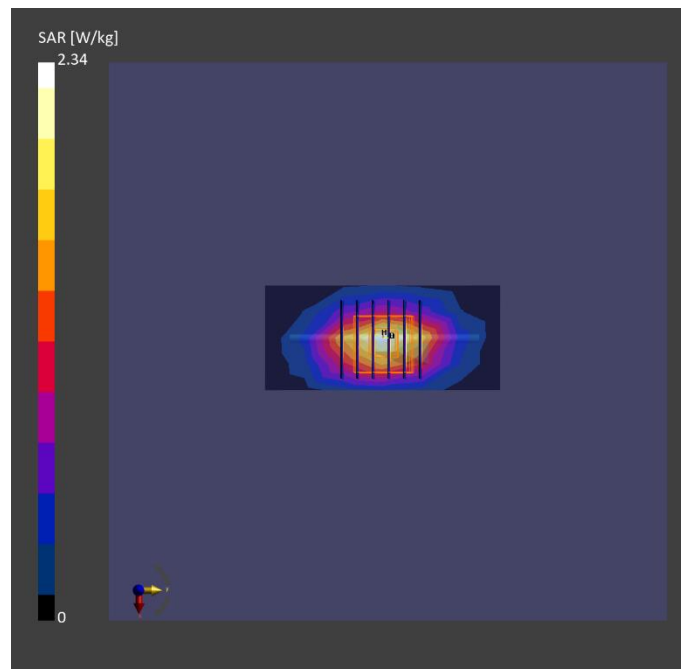
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	1.92	1.89
psSAR-10g [W/kg]	1.01	0.993
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-19 | Ambient Temp : 21.4 °C | Tissue Temp : 21.1 °C

System Performance Check**System Performance Check at 1900 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D1900V2	5d111	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	1900.000	7.69	1.43	37.7

Hardware Setup

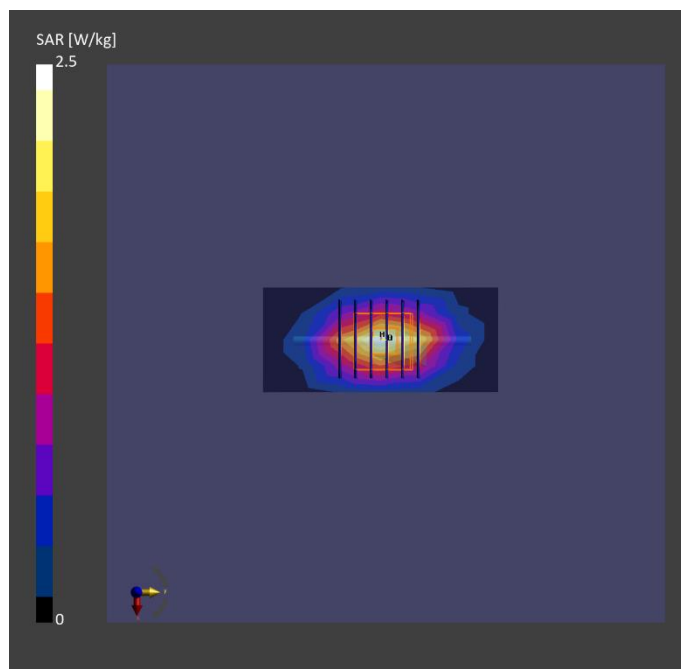
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	1.99	1.95
psSAR-10g [W/kg]	1.03	1.02
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-21 | Ambient Temp : 21.3 °C | Tissue Temp : 21.2 °C

System Performance Check**System Performance Check at 2450 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D2450V2	1087	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	2450.000	7.25	1.78	37.0

Hardware Setup

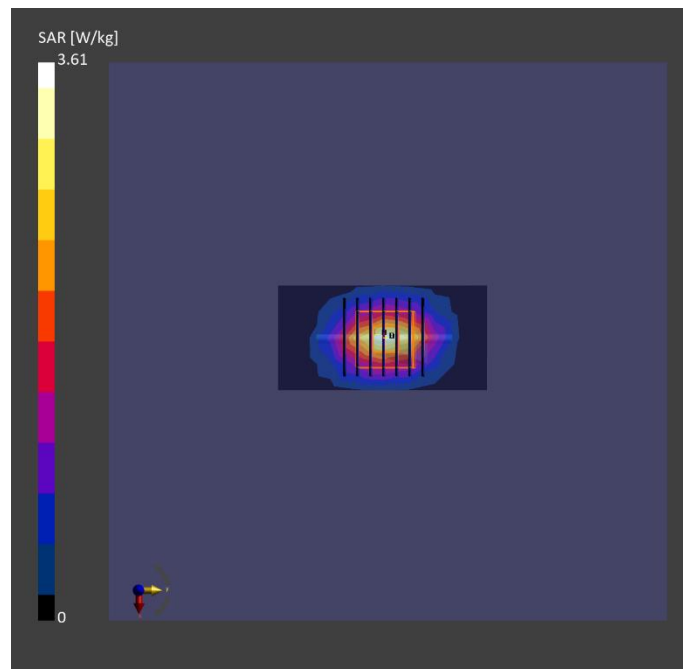
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	2.74	2.69
psSAR-10g [W/kg]	1.26	1.25
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-20 | Ambient Temp : 21.7 °C | Tissue Temp : 21.5 °C

System Performance Check**System Performance Check at 2600 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D2600V2	1197	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	2600.000	7.11	1.88	36.8

Hardware Setup

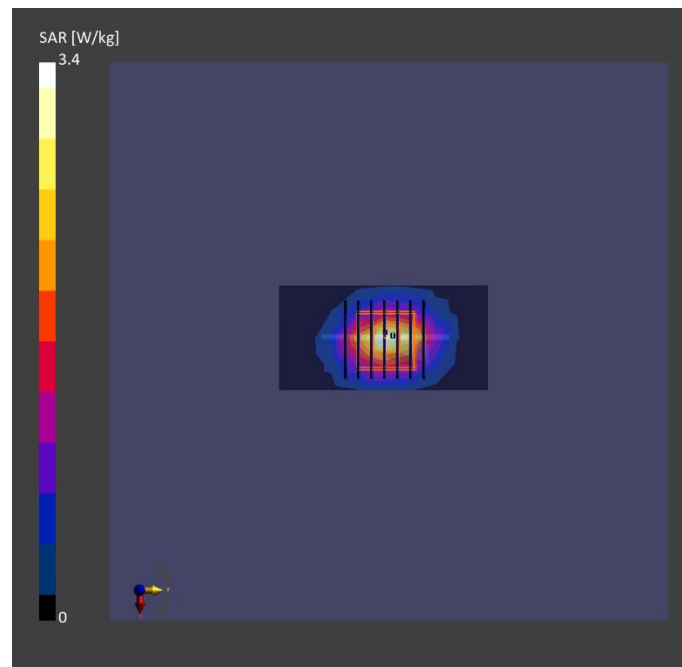
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	2.62	2.59
psSAR-10g [W/kg]	1.16	1.20
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-23 | Ambient Temp : 22.1 °C | Tissue Temp : 21.7 °C

System Performance Check**System Performance Check at 2600 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D2600V2	1197	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	2600.000	7.11	1.98	36.9

Hardware Setup

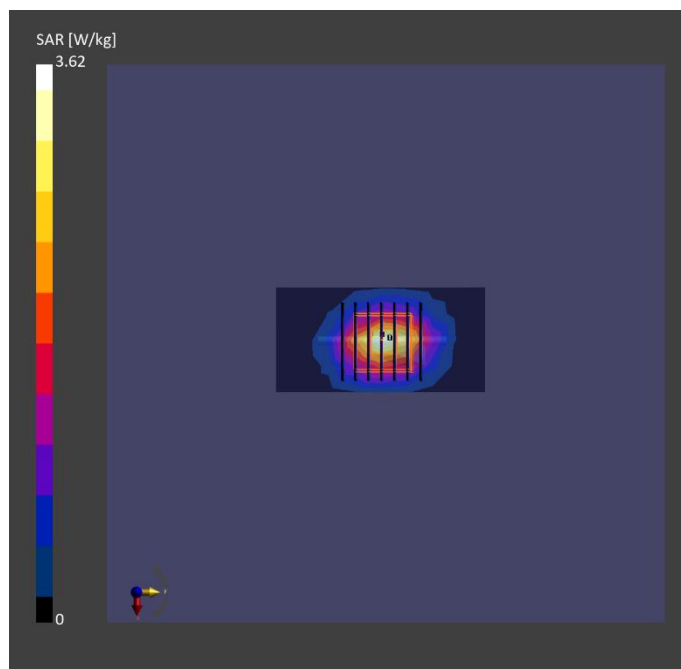
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	2.74	2.70
psSAR-10g [W/kg]	1.22	1.21
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-22 | Ambient Temp : 21.5 °C | Tissue Temp : 21.4 °C

System Performance Check**System Performance Check at 5250 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5250.000	5.56	4.31	34.3

Hardware Setup

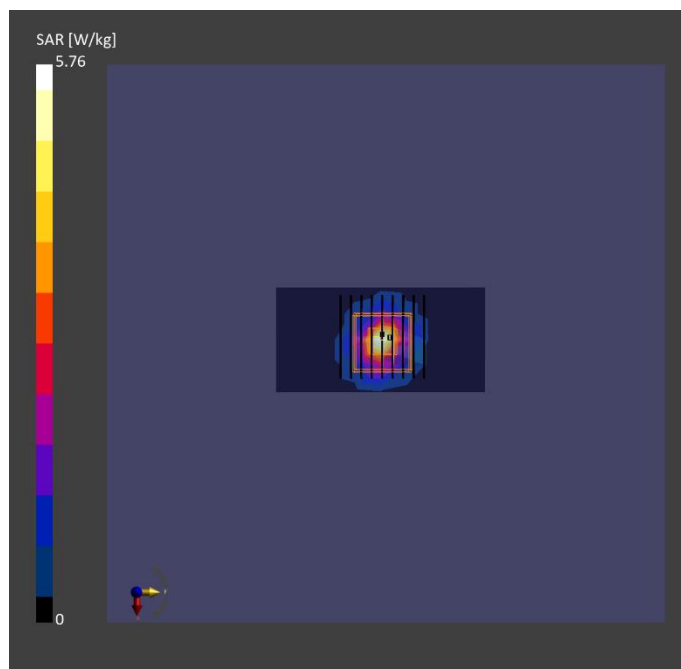
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.52	3.73
psSAR-10g [W/kg]	1.01	1.07
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-22 | Ambient Temp : 21.5 °C | Tissue Temp : 21.4 °C

System Performance Check**System Performance Check at 5600 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5600.000	5.07	4.65	33.8

Hardware Setup

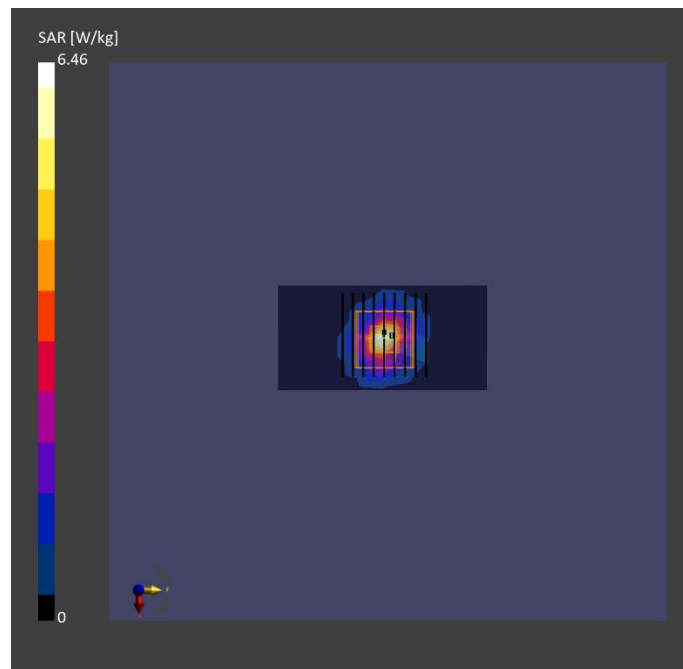
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.98	4.22
psSAR-10g [W/kg]	1.12	1.20
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-05-22 | Ambient Temp : 21.5 °C | Tissue Temp : 21.4 °C

System Performance Check**System Performance Check at 5800 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5800.000	5.01	4.85	33.5

Hardware Setup

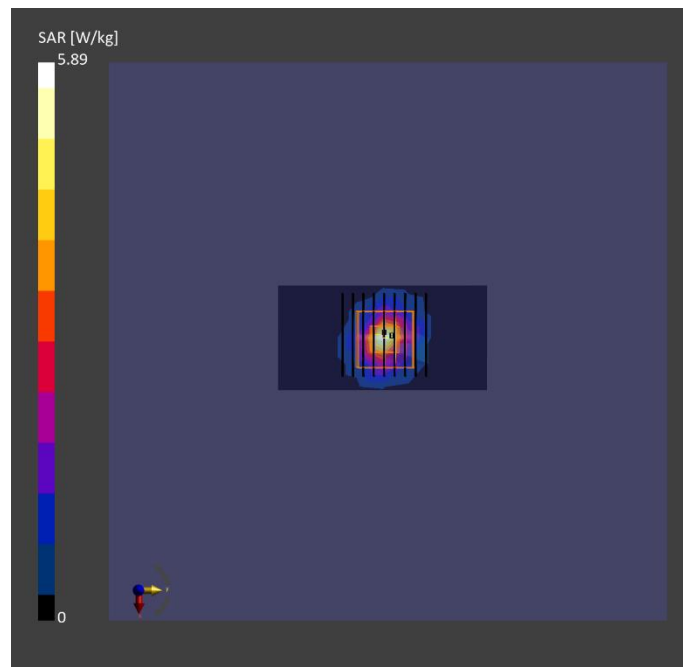
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan 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
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.69	3.95
psSAR-10g [W/kg]	1.04	1.12
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only



Test Date : 2025-05-22 | Ambient Temp : 21.5 °C | Tissue Temp : 21.4 °C

System Performance Check**System Performance Check at 6500 MHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D6.5GHzV2	1081	20.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	6500.000	5.25	5.59	32.5

Hardware Setup

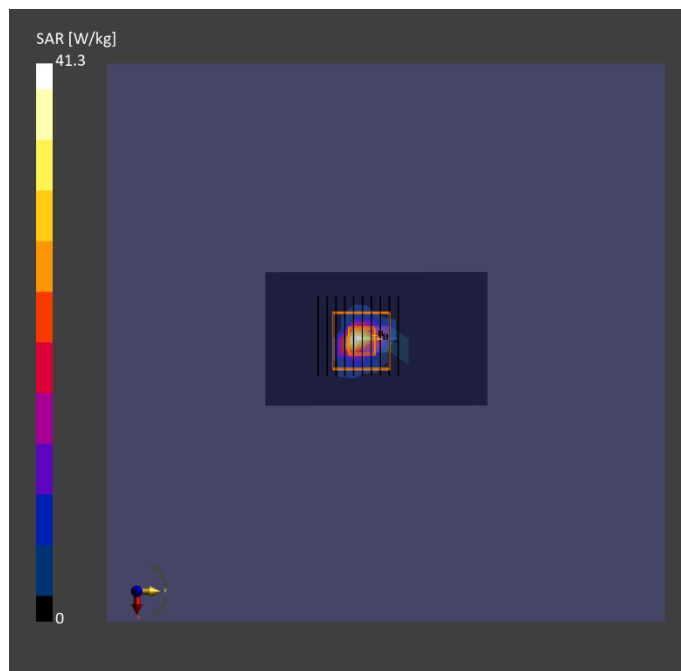
Phantom	Tissue Simulating Liquid	Probe / Calibration Date	DAE / Calibration Date
ELI V8.0 (20deg probe tilt) - 2180	HBBL-600-10000	EX3DV4 - SN7737 / 2024-07-31	DAE4 Sn1741 / 2024-07-16
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	24.5	29.9
psSAR-8g [W/kg]	6.15	6.69
psSAR-10g [W/kg]	5.10	5.54
psAPD (1.0 cm ² , sq) [W/m ²]		299
psAPD (4.0 cm ² , sq) [W/m ²]		134
Power Drift [dB]		-0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-06-27 | Ambient Temp : 22.2 °C

System Performance Check**System Performance Check at 10GHz****Verification Source Properties**

Manufacturer	Model No.	Serial No.
SPEAG	H10GVx	1060

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor
5G	CW	10000.0	1.0

Hardware Setup

Phantom	Medium	Probe / Calibration Date	DAE / Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1- 55GHz / 2024-09-16	DAE4 Sn1742 / 2024-08-15
Measurement Software Version		3.2.2.2358	

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [mm]	0.125 x 0.125
Sensor Surface [mm]	10.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	54.2
psPD tot+ [W/m ²]	54.6
psPD mod+ [W/m ²]	55.1
E max [V/m]	159
Power Drift [dB]	0.01

