

1. Testing Rationale

The DUT supports Hotspot mode and Hotspot mode supports power reduction. Per KDB 648474 D04: When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.. Please refer to UL SAR Report 14938215-S1 §6.7 for 10g Extremity Adjusted SAR calculations and 10g Extremity SAR exclusion considerations.

Appendix H is supplemental to UL SAR Report 14938215-S1 and UL TAS Part 0 Report 14938215-S2. This Appendix contains additional 10g Extremity SAR data needed to meet TAS Part 0 SAR Characterization requirements.

2. Dielectric Property Measurements & System Check

2.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

Tissue dielectric parameters were measured at the low, middle, and high frequency of each operating frequency range of the test device.

The dielectric constant (ϵ_r) and conductivity (σ) of typical tissue-equivalent media recipes are expected to be within $\pm 5\%$ of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for ϵ_r and σ may be relaxed to $\pm 10\%$. This is limited to frequencies ≤ 3 GHz.

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

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Dielectric Property Measurements Results

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
1	11/2/2023	1750	Head	1750	40.12	40.08	0.09%	1.31	1.37	-4.45%
				1695	40.19	40.17	0.05%	1.27	1.34	-4.85%
				1755	40.12	40.08	0.11%	1.31	1.37	-4.43%
1	11/1/2023	835	Head	835	42.01	41.50	1.23%	0.88	0.90	-2.17%
				805	42.07	41.68	0.94%	0.87	0.90	-3.15%
				850	41.98	41.50	1.16%	0.89	0.92	-3.21%
1	11/2/2023	750	Head	750	43.71	41.96	4.17%	0.87	0.89	-2.06%
				660	43.97	42.42	3.65%	0.84	0.89	-4.79%
				800	43.48	41.71	4.26%	0.89	0.90	-0.43%
1	11/6/2023	1750	Head	1750	41.07	40.08	2.46%	1.36	1.37	-0.95%
				1695	41.13	40.17	2.39%	1.32	1.34	-1.04%
				1755	41.07	40.08	2.48%	1.36	1.37	-0.93%
1	11/6/2023	835	Head	835	42.76	41.50	3.04%	0.93	0.90	3.13%
				805	42.84	41.68	2.78%	0.92	0.90	2.07%
				850	42.73	41.50	2.96%	0.93	0.92	2.01%
2	11/2/2023	1900	Head	1900	40.96	40.00	2.40%	1.41	1.40	1.00%
				1850	41.06	40.00	2.65%	1.39	1.40	-0.57%
				1920	40.96	40.00	2.40%	1.42	1.40	1.71%
2	11/2/2023	2600	Head	2600	39.72	39.01	1.82%	1.90	1.96	-3.07%
				2495	39.84	39.14	1.78%	1.81	1.85	-1.93%
				2690	39.53	38.90	1.63%	1.98	2.06	-3.81%
2	11/6/2023	1900	Head	1900	41.17	40.00	2.93%	1.44	1.40	3.14%
				1850	41.29	40.00	3.23%	1.42	1.40	1.21%
				1920	41.14	40.00	2.85%	1.46	1.40	4.07%
2	11/6/2023	2600	Head	2600	40.22	39.01	3.10%	1.94	1.96	-0.98%
				2495	40.40	39.14	3.21%	1.85	1.85	0.18%
				2690	40.06	38.90	2.99%	2.02	2.06	-2.16%
10	10/10/2023	3700	Head	3700	38.87	37.70	3.10%	2.97	3.12	-4.69%
				3600	39.04	37.82	3.24%	2.88	3.01	-4.58%
				3900	38.54	37.47	2.85%	3.17	3.32	-4.42%
10	10/10/2023	3500	Head	3500	39.20	37.93	3.35%	2.78	2.91	-4.38%
				3400	39.37	38.04	3.49%	2.69	2.81	-4.14%
				3600	39.04	37.82	3.24%	2.88	3.01	-4.58%
10	11/3/2023	3500	Head	3500	39.74	37.93	4.77%	2.77	2.91	-4.76%
				3400	39.91	38.04	4.91%	2.69	2.81	-4.42%
				3600	39.58	37.82	4.67%	2.86	3.01	-4.97%
10	11/3/2023	3900	Head	3900	39.08	37.47	4.29%	3.16	3.32	-4.78%
				3800	39.25	37.59	4.42%	3.06	3.22	-4.96%
				4000	38.93	37.36	4.20%	3.26	3.42	-4.71%

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2.2. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ± 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 3 mm.
For 5 GHz band - Distance between probe sensors and phantom surface was set to 2.5 mm
- The dipole input power (forward power) was 100 mW.
 - The dipole input power (forward power) for the CLA 13 was 1 W.
- The results are normalized to 1 W input power.

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System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within $\pm 10\%$ of the manufacturer calibrated dipole SAR target. Refer to §4 for the SAR System Check Plots.

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Date	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
1	11/2/2023	Head	D1750V2 SN: 1077	10/13/2024	3.290	32.90	36.10	-8.86%	1.830	18.30	19.00	-3.68%	1
1	11/2/2023	Head	D835V2 SN: 4d117	5/11/2024	0.902	9.02	9.66	-6.63%	0.612	6.12	6.27	-2.39%	2
1	11/2/2023	Head	D750V3 SN: 1024	5/11/2024	0.821	8.21	8.52	-3.64%	0.565	5.65	5.60	0.89%	3
1	11/6/2023	Head	D1750V2 SN: 1077	10/13/2024	3.320	33.20	36.10	-8.03%	1.820	18.20	19.00	-4.21%	
1	11/6/2023	Head	D835V2 SN: 4d117	5/11/2024	0.951	9.51	9.66	-1.55%	0.641	6.41	6.27	2.23%	
2	11/2/2023	Head	D1900V2 SN: 5d163	10/13/2024	4.270	42.70	39.70	7.56%	2.240	22.40	20.80	7.69%	4
2	11/2/2023	Head	D2600V2 SN: 1006	10/13/2024	5.380	53.80	56.10	-4.10%	2.440	24.40	25.40	-3.94%	
2	11/6/2023	Head	D1900V2 SN: 5d163	10/13/2024	4.130	41.30	39.70	4.03%	2.150	21.50	20.80	3.37%	
2	11/6/2023	Head	D2600V2 SN: 1006	10/13/2024	5.210	52.10	56.10	-7.13%	2.350	23.50	25.40	-7.48%	5
10	10/10/2023	Head	D3500V2 SN: 1011	4/17/2024	6.250	62.50	65.60	-4.73%	2.400	24.00	24.70	-2.83%	6
10	10/10/2023	Head	D3700V2 SN: 1039	5/6/2023	6.470	64.70	69.27	-6.60%	2.400	24.00	25.68	-6.53%	7
10	11/3/2023	Head	D3500V2 SN: 1011	4/17/2024	6.340	63.40	65.60	-3.35%	2.440	24.40	24.70	-1.21%	8
10	11/3/2023	Head	D3900V2 SN: 1102	10/24/2024	6.970	69.70	69.30	0.58%	2.460	24.60	24.10	2.07%	9
10	11/6/2023	Head	D1750V2 SN: 1077	10/13/2024	3.570	35.70	36.10	-1.11%	1.900	19.00	19.00	0.00%	10
10	11/7/2023	Head	D750V3 SN: 1024	5/11/2024	0.851	8.51	8.52	-0.12%	0.564	5.64	5.56	0.71%	11

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3. Measured and Reported (Scaled) SAR Results

Refer to §5 for the SAR Highest Test Plots.

3.1. GSM850

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	GPRS 3 Slots	RSI 2	0	Back	190	836.6	25.3	23.9	0.149	0.206	
ANT A	Extremity	GPRS 3 Slots	RSI 2	0	Front	190	836.6	25.3	23.9	0.220	0.304	
ANT A	Extremity	GPRS 3 Slots	RSI 2	0	Edge Right	190	836.6	25.3	23.9	0.157	0.217	
ANT A	Extremity	GPRS 3 Slots	RSI 2	0	Edge Bottom	190	836.6	25.3	23.9	0.284	0.392	
ANT A	Extremity	GPRS 3 Slots	RSI 2	0	Edge Left	190	836.6	25.3	23.9	0.042	0.058	
ANT A	Extremity	GPRS 3 Slots	RSI 0	16	Back	190	836.6	32.5	30.5	0.234	0.371	
ANT A	Extremity	GPRS 2 Slots	RSI 0	2	Front	190	836.6	32.5	30.5	0.373	0.591	1
ANT A	Extremity	GPRS 2 Slots	RSI 0	12	Edge Bottom	190	836.6	32.5	30.5	0.171	0.271	

3.2. GSM1900

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	GPRS 3 Slots	RSI 2	0	Back	661	1880	23.3	21.7	0.838	1.211	2
ANT B	Extremity	GPRS 3 Slots	RSI 2	0	Front	661	1880	23.3	21.7	0.427	0.617	
ANT B	Extremity	GPRS 3 Slots	RSI 2	0	Edge Bottom	661	1880	23.3	21.7	0.621	0.898	
ANT B	Extremity	GPRS 3 Slots	RSI 2	0	Edge Left	661	1880	23.3	21.7	0.343	0.496	
ANT B	Extremity	GPRS 1 Slots	RSI 0	16	Back	661	1880	30.5	28.5	0.095	0.151	
ANT B	Extremity	GPRS 1 Slots	RSI 0	2	Front	661	1880	30.5	28.5	0.520	0.824	
ANT B	Extremity	GPRS 1 Slots	RSI 0	12	Edge Bottom	661	1880	30.5	28.5	0.163	0.258	

3.3. W-CDMA Band II

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	Rel. 99	RSI 2	0	Back	9262	1852.4	22.0	21.0	2.08	2.619	
ANT B	Extremity	Rel. 99	RSI 2	0	Back	9400	1880	22.0	21.1	2.13	2.620	
ANT B	Extremity	Rel. 99	RSI 2	0	Back	9538	1907.6	22.0	21.1	2.26	2.780	3
ANT B	Extremity	Rel. 99	RSI 2	0	Front	9400	1880	22.0	21.1	1.38	1.698	
ANT B	Extremity	Rel. 99	RSI 2	0	Edge Bottom	9400	1880	22.0	21.1	1.42	1.747	
ANT B	Extremity	Rel. 99	RSI 2	0	Edge Left	9400	1880	22.0	21.1	0.734	0.903	
ANT B	Extremity	Rel. 99	RSI 0	16	Back	9400	1880	24.5	23.1	0.101	0.139	
ANT B	Extremity	Rel. 99	RSI 0	2	Front	9400	1880	24.5	23.1	0.675	0.932	
ANT B	Extremity	Rel. 99	RSI 0	12	Edge Bottom	9400	1880	24.5	23.1	0.233	0.322	

3.4. W-CDMA Band IV

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	Rel. 99	RSI 2	0	Back	1413	1732.6	22.0	20.8	1.35	1.78	4
ANT B	Extremity	Rel. 99	RSI 2	0	Front	1413	1732.6	22.0	20.8	1.11	1.46	
ANT B	Extremity	Rel. 99	RSI 2	0	Edge Bottom	1413	1732.6	22.0	20.8	0.974	1.284	
ANT B	Extremity	Rel. 99	RSI 2	0	Edge Left	1413	1732.6	22.0	20.8	0.520	0.685	
ANT B	Extremity	Rel. 99	RSI 0	16	Back	1413	1732.6	24.5	22.8	0.091	0.135	
ANT B	Extremity	Rel. 99	RSI 0	2	Front	1413	1732.6	24.5	22.8	0.617	0.913	
ANT B	Extremity	Rel. 99	RSI 0	12	Edge Bottom	1413	1732.6	24.5	22.8	0.120	0.177	

3.5. W-CDMA Band V

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	Rel. 99	RSI 0	0	Back	4183	836.6	25.0	23.8	0.768	1.012	
ANT A	Extremity	Rel. 99	RSI 0	0	Front	4183	836.6	25.0	23.8	0.536	0.707	
ANT A	Extremity	Rel. 99	RSI 0	0	Edge Right	4183	836.6	25.0	23.8	0.554	0.730	
ANT A	Extremity	Rel. 99	RSI 0	0	Edge Bottom	4183	836.6	25.0	23.8	1.00	1.32	5
ANT A	Extremity	Rel. 99	RSI 0	0	Edge Left	4183	836.6	25.0	23.8	0.102	0.134	

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3.6. LTE Band 2 (20MHz Bandwidth)

LTE Band 2 ANT B

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	QPSK	RSI 0	0	Back	18700	1860	50	0	22.0	20.8	1.69	2.23	
ANT B	Extremity	QPSK	RSI 0	0	Back	18900	1880	1	49	22.0	20.8	1.50	1.98	
ANT B	Extremity	QPSK	RSI 0	0	Back	18900	1880	50	0	22.0	21.0	1.61	2.03	
ANT B	Extremity	QPSK	RSI 0	0	Back	18900	1880	100	0	22.0	21.0	1.88	2.37	
ANT B	Extremity	QPSK	RSI 0	0	Back	19100	1900	50	0	22.0	20.8	1.91	2.52	6
ANT B	Extremity	QPSK	RSI 0	0	Front	18900	1880	1	49	22.0	20.8	1.17	1.54	
ANT B	Extremity	QPSK	RSI 0	0	Front	18900	1880	50	0	22.0	21.0	1.21	1.52	
ANT B	Extremity	QPSK	RSI 0	0	Edge Bottom	18900	1880	1	49	22.0	20.8	1.27	1.67	
ANT B	Extremity	QPSK	RSI 0	0	Edge Bottom	18900	1880	50	0	22.0	21.0	1.31	1.65	
ANT B	Extremity	QPSK	RSI 0	0	Edge Left	18900	1880	1	49	22.0	20.8	0.719	0.948	
ANT B	Extremity	QPSK	RSI 0	0	Edge Left	18900	1880	50	0	22.0	21.0	0.735	0.925	

LTE Band 2 ANT E

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT E	Extremity	QPSK	RSI 0	0	Back	18700	1860	1	99	22.0	20.3	1.71	2.54	
ANT E	Extremity	QPSK	RSI 0	0	Back	18700	1860	50	0	22.0	20.4	1.83	2.64	7
ANT E	Extremity	QPSK	RSI 0	0	Back	18900	1880	1	99	22.0	20.4	1.55	2.26	
ANT E	Extremity	QPSK	RSI 0	0	Back	18900	1880	50	24	22.0	20.5	1.61	2.29	
ANT E	Extremity	QPSK	RSI 0	0	Back	18900	1880	100	0	22.0	20.5	1.61	2.27	
ANT E	Extremity	QPSK	RSI 0	0	Back	19100	1900	1	99	22.0	20.1	1.47	2.30	
ANT E	Extremity	QPSK	RSI 0	0	Back	19100	1900	50	50	22.0	20.5	1.53	2.19	
ANT E	Extremity	QPSK	RSI 0	0	Front	18900	1880	1	99	22.0	20.4	0.108	0.157	
ANT E	Extremity	QPSK	RSI 0	0	Front	18900	1880	50	24	22.0	20.5	0.097	0.138	
ANT E	Extremity	QPSK	RSI 0	0	Edge Left	18900	1880	1	99	22.0	20.4	0.776	1.129	
ANT E	Extremity	QPSK	RSI 0	0	Edge Left	18900	1880	50	24	22.0	20.5	0.712	1.013	

3.7. LTE Band 5 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	QPSK	RSI 0	0	Back	20525	836.5	1	25	25.0	23.6	0.894	1.234	
ANT A	Extremity	QPSK	RSI 0	0	Back	20525	836.5	25	0	24.0	22.7	0.736	0.993	
ANT A	Extremity	QPSK	RSI 0	0	Front	20525	836.5	1	25	25.0	23.6	0.230	0.317	
ANT A	Extremity	QPSK	RSI 0	0	Front	20525	836.5	25	0	24.0	22.7	0.188	0.254	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	20525	836.5	1	25	25.0	23.6	0.338	0.467	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	20525	836.5	25	0	24.0	22.7	0.278	0.375	
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	20525	836.5	1	25	25.0	23.6	0.934	1.289	8
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	20525	836.5	25	0	24.0	22.7	0.762	1.028	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	20525	836.5	1	25	25.0	23.6	0.119	0.164	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	20525	836.5	25	0	24.0	22.7	0.096	0.130	

3.8. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	QPSK	RSI 0	0	Back	23095	707.5	1	0	24.5	22.9	0.716	1.035	9
ANT A	Extremity	QPSK	RSI 0	0	Back	23095	707.5	25	0	23.5	22.2	0.569	0.768	
ANT A	Extremity	QPSK	RSI 0	0	Front	23095	707.5	1	0	24.5	22.9	0.221	0.319	
ANT A	Extremity	QPSK	RSI 0	0	Front	23095	707.5	25	0	23.5	22.2	0.180	0.243	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	23095	707.5	1	0	24.5	22.9	0.367	0.530	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	23095	707.5	25	0	23.5	22.2	0.299	0.403	
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	23095	707.5	1	0	24.5	22.9	0.512	0.740	
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	23095	707.5	25	0	23.5	22.2	0.410	0.553	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	23095	707.5	1	0	24.5	22.9	0.110	0.159	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	23095	707.5	25	0	23.5	22.2	0.089	0.120	

3.9. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	QPSK	RSI 0	0	Back	23230	782	1	49	24.5	23.0	0.829	1.171	10
ANT A	Extremity	QPSK	RSI 0	0	Back	23230	782	25	12	23.5	22.3	0.737	0.972	
ANT A	Extremity	QPSK	RSI 0	0	Front	23230	782	1	49	24.5	23.0	0.142	0.201	
ANT A	Extremity	QPSK	RSI 0	0	Front	23230	782	25	12	23.5	22.3	0.109	0.144	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	23230	782	1	49	24.5	23.0	0.255	0.360	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	23230	782	25	12	23.5	22.3	0.203	0.268	
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	23230	782	1	49	24.5	23.0	0.497	0.702	
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	23230	782	25	12	23.5	22.3	0.397	0.523	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	23230	782	1	49	24.5	23.0	0.046	0.065	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	23230	782	25	12	23.5	22.3	0.033	0.044	

Appendix H Supplemental 10g Data

3.10. LTE Band 26 (15MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	QPSK	RSI 0	0	Back	26865	831.5	1	0	25.0	23.6	0.882	1.217	11
ANT A	Extremity	QPSK	RSI 0	0	Back	26865	831.5	36	0	24.0	22.8	0.720	0.949	
ANT A	Extremity	QPSK	RSI 0	0	Front	26865	831.5	1	0	25.0	23.6	0.175	0.242	
ANT A	Extremity	QPSK	RSI 0	0	Front	26865	831.5	36	0	24.0	22.8	0.156	0.206	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	26865	831.5	1	0	25.0	23.6	0.285	0.393	
ANT A	Extremity	QPSK	RSI 0	0	Edge Right	26865	831.5	36	0	24.0	22.8	0.255	0.336	
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	26865	831.5	1	0	25.0	23.6	0.622	0.859	
ANT A	Extremity	QPSK	RSI 0	0	Edge Bottom	26865	831.5	36	0	24.0	22.8	0.550	0.725	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	26865	831.5	1	0	25.0	23.6	0.038	0.052	
ANT A	Extremity	QPSK	RSI 0	0	Edge Left	26865	831.5	36	0	24.0	22.8	0.034	0.045	

3.11. LTE Band 41 PC3 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	QPSK	RSI 2	0	Back	40620	2593	1	49	20.5	20.4	0.950	0.972	
ANT B	Extremity	QPSK	RSI 2	0	Back	40620	2593	50	0	20.5	20.3	1.01	1.06	12
ANT B	Extremity	QPSK	RSI 2	0	Front	40620	2593	1	49	20.5	20.4	0.804	0.823	
ANT B	Extremity	QPSK	RSI 2	0	Front	40620	2593	50	0	20.5	20.3	0.905	0.948	
ANT B	Extremity	QPSK	RSI 2	0	Edge Bottom	40620	2593	1	49	20.5	20.4	0.662	0.677	
ANT B	Extremity	QPSK	RSI 2	0	Edge Bottom	40620	2593	50	0	20.5	20.3	0.721	0.755	
ANT B	Extremity	QPSK	RSI 2	0	Edge Left	40620	2593	1	49	20.5	20.4	0.415	0.425	
ANT B	Extremity	QPSK	RSI 2	0	Edge Left	40620	2593	50	0	20.5	20.3	0.449	0.470	
ANT B	Extremity	QPSK	RSI 0	16	Back	40620	2593	1	49	24.0	23.2	0.129	0.155	
ANT B	Extremity	QPSK	RSI 0	16	Back	40620	2593	50	24	23.0	22.3	0.106	0.125	
ANT B	Extremity	QPSK	RSI 0	2	Front	40620	2593	1	49	24.0	23.2	0.812	0.976	
ANT B	Extremity	QPSK	RSI 0	2	Front	40620	2593	50	24	23.0	22.3	0.677	0.795	
ANT B	Extremity	QPSK	RSI 0	12	Edge Bottom	40620	2593	1	49	24.0	23.2	0.205	0.246	
ANT B	Extremity	QPSK	RSI 0	12	Edge Bottom	40620	2593	50	24	23.0	22.3	0.173	0.203	

3.12. LTE Band 66 (20MHz Bandwidth)

LTE Band 66 ANT B

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	QPSK	RSI 0	0	Back	132322	1745	1	49	22.0	21.5	1.57	1.76	
ANT B	Extremity	QPSK	RSI 0	0	Back	132322	1745	50	0	22.0	21.5	1.71	1.92	13
ANT B	Extremity	QPSK	RSI 0	0	Front	132322	1745	1	49	22.0	21.5	1.19	1.34	
ANT B	Extremity	QPSK	RSI 0	0	Front	132322	1745	50	0	22.0	21.5	1.25	1.40	
ANT B	Extremity	QPSK	RSI 0	0	Edge Bottom	132322	1745	1	49	22.0	21.5	1.02	1.14	
ANT B	Extremity	QPSK	RSI 0	0	Edge Bottom	132322	1745	50	0	22.0	21.5	1.07	1.20	
ANT B	Extremity	QPSK	RSI 0	0	Edge Left	132322	1745	1	49	22.0	21.5	0.701	0.787	
ANT B	Extremity	QPSK	RSI 0	0	Edge Left	132322	1745	50	0	22.0	21.5	0.706	0.792	

LTE Band 66 ANT E

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT E	Extremity	QPSK	RSI 0	0	Back	132322	1745	1	99	22.0	21.3	1.62	1.90	
ANT E	Extremity	QPSK	RSI 0	0	Back	132322	1745	50	50	22.0	21.4	1.67	1.91	14
ANT E	Extremity	QPSK	RSI 0	0	Front	132322	1745	1	99	22.0	21.3	0.391	0.459	
ANT E	Extremity	QPSK	RSI 0	0	Front	132322	1745	50	50	22.0	21.4	0.377	0.431	
ANT E	Extremity	QPSK	RSI 0	0	Edge Left	132322	1745	1	99	22.0	21.3	0.979	1.150	
ANT E	Extremity	QPSK	RSI 0	0	Edge Left	132322	1745	50	50	22.0	21.4	1.02	1.17	

3.13. NR Band n5 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	167300	836.5	1	53	25.0	24.3	0.860	1.010	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	167300	836.5	50	28	25.0	24.2	0.915	1.100	15
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	167300	836.5	1	53	25.0	24.3	0.276	0.324	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	167300	836.5	50	28	25.0	24.2	0.264	0.317	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	167300	836.5	1	53	25.0	24.3	0.416	0.489	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	167300	836.5	50	28	25.0	24.2	0.416	0.500	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Bottom	167300	836.5	1	53	25.0	24.3	0.852	1.001	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Bottom	167300	836.5	50	28	25.0	24.2	0.829	0.997	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	167300	836.5	1	53	25.0	24.3	0.056	0.066	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	167300	836.5	50	28	25.0	24.2	0.054	0.065	

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3.14. NR Band n26 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	166300	831.5	1	53	24.5	23.6	0.983	1.209	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	166300	831.5	50	28	24.5	23.5	0.991	1.248	16
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	166300	831.5	1	53	24.5	23.6	0.206	0.253	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	166300	831.5	50	28	24.5	23.5	0.189	0.238	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	166300	831.5	1	53	24.5	23.6	0.272	0.335	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	166300	831.5	50	28	24.5	23.5	0.267	0.336	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Bottom	166300	831.5	1	53	24.5	23.6	0.619	0.762	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Bottom	166300	831.5	50	28	24.5	23.5	0.609	0.767	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	166300	831.5	1	53	24.5	23.6	0.048	0.059	
ANT A	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	166300	831.5	50	28	24.5	23.5	0.047	0.059	

3.15. NR Band n41 (100MHz Bandwidth)

NR Band n41 ANT B

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Back	518598	2592.99	1	136	18.0	17.8	0.654	0.685	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Back	518598	2592.99	135	69	18.0	17.6	0.662	0.726	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Front	518598	2592.99	1	136	18.0	17.8	0.587	0.615	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Front	518598	2592.99	135	69	18.0	17.6	0.550	0.603	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Edge Bottom	518598	2592.99	1	136	18.0	17.8	0.484	0.507	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Edge Bottom	518598	2592.99	135	69	18.0	17.6	0.476	0.522	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Edge Left	518598	2592.99	1	136	18.0	17.8	0.296	0.310	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 2	0	Edge Left	518598	2592.99	135	69	18.0	17.6	0.287	0.315	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	16	Back	518598	2592.99	1	136	24.0	23.7	0.106	0.114	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	16	Back	518598	2592.99	135	69	24.0	23.5	0.121	0.136	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	2	Front	518598	2592.99	1	136	24.0	23.7	0.935	1.002	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	2	Front	518598	2592.99	135	69	24.0	23.5	0.945	1.060	17
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	12	Edge Bottom	518598	2592.99	1	136	24.0	23.7	0.171	0.183	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	12	Edge Bottom	518598	2592.99	135	69	24.0	23.5	0.183	0.205	

NR Band n41 SRS 1 ANT C

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	518598	2592.99	1	271	17.5	17.0	0.115	0.129	
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	518598	2592.99	135	69	17.5	16.4	0.123	0.158	
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	518598	2592.99	1	271	17.5	17.0	0.099	0.111	
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	518598	2592.99	135	69	17.5	16.4	0.105	0.135	
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	518598	2592.99	1	271	17.5	17.0	0.182	0.204	
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	518598	2592.99	135	69	17.5	16.4	0.170	0.219	18
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	518598	2592.99	1	271	17.5	17.0	0.019	0.021	
ANT C	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	518598	2592.99	135	69	17.5	16.4	0.019	0.024	

NR Band n41 SRS 2 ANT G

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	518598	2592.99	1	271	18.0	17.8	0.742	0.777	
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	518598	2592.99	135	69	18.0	17.5	0.727	0.816	19
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	518598	2592.99	1	271	18.0	17.8	0.117	0.123	
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	518598	2592.99	135	69	18.0	17.5	0.115	0.129	
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	518598	2592.99	1	271	18.0	17.8	0.035	0.037	
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	518598	2592.99	135	69	18.0	17.5	0.039	0.044	
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	518598	2592.99	1	271	18.0	17.8	0.353	0.370	
ANT G	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Right	518598	2592.99	135	69	18.0	17.5	0.348	0.390	

NR Band n41 SRS 3 ANT H

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT H	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	518598	2592.99	1	136	18.0	17.8	0.403	0.422	
ANT H	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	518598	2592.99	135	69	18.0	17.7	0.438	0.469	20
ANT H	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	518598	2592.99	1	136	18.0	17.8	0.047	0.049	
ANT H	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	518598	2592.99	135	69	18.0	17.7	0.051	0.055	
ANT H	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	518598	2592.99	1	136	18.0	17.8	0.102	0.107	
ANT H	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	518598	2592.99	135	69	18.0	17.7	0.102	0.109	

Appendix H Supplemental 10g Data

3.16. NR Band n66 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	349000	1745	1	53	22.0	21.0	1.270	1.599	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	349000	1745	50	28	22.0	20.7	1.220	1.646	21
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	349000	1745	1	53	22.0	21.0	1.020	1.284	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	349000	1745	50	28	22.0	20.7	1.030	1.389	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Bottom	349000	1745	1	53	22.0	21.0	1.010	1.272	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Bottom	349000	1745	50	28	22.0	20.7	0.965	1.302	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	349000	1745	1	53	22.0	21.0	0.484	0.609	
ANT B	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	349000	1745	50	28	22.0	20.7	0.470	0.634	

3.17. NR Band n77 (Block A) (100MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	633333	3499.995	1	1	18.0	17.4	0.976	1.121	22
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	633333	3499.995	135	69	18.0	17.2	0.833	1.001	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	633333	3499.995	1	1	18.0	17.4	0.464	0.533	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	633333	3499.995	135	69	18.0	17.2	0.430	0.517	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	633333	3499.995	1	1	18.0	17.4	0.377	0.433	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	633333	3499.995	135	69	18.0	17.2	0.352	0.423	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	633333	3499.995	1	1	18.0	17.4	0.485	0.557	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	633333	3499.995	135	69	18.0	17.2	0.646	0.777	

3.18. NR Band n77 (Block C) (100MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	657200	3858	1	1	18.0	17.5	0.864	0.969	23
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Back	657200	3858	135	69	18.0	16.7	0.673	0.908	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	657200	3858	1	1	18.0	17.5	0.220	0.247	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Front	657200	3858	135	69	18.0	16.7	0.172	0.232	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	657200	3858	1	1	18.0	17.5	0.154	0.173	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Top	657200	3858	135	69	18.0	16.7	0.121	0.163	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	657200	3858	1	1	18.0	17.5	0.686	0.770	
ANT F	Extremity	DFT-s-OFDM $\pi/2$ BPSK	RSI 0	0	Edge Left	657200	3858	135	69	18.0	16.7	0.557	0.751	

4. 10g Data System Check Plots

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-02, 01:52

System Performance Check Report for D1750V2 - SN1077

Exposure Conditions

Frequency [MHz] Channel Number	1750.000 0	TSL Permittivity	40.1
Group UID	CW 0--	TSL Conductivity [S/m]	1.31
Conversion Factor	8.03	Phantom Section TSL	Flat HSL

Hardware Setup

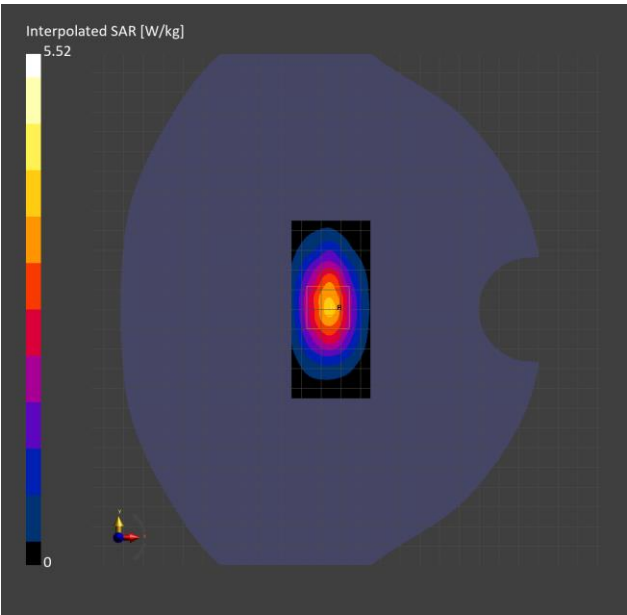
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		88.8
Dist 3dB Peak [mm]		10.8

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.12	3.29
psSAR10g [W/Kg]	1.68	1.83
Power Drift [dB]	N/A	0.04



UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-02, 19:14

PLOT 1

System Performance Check Report for D835V2 - SN4d117

Exposure Conditions

Frequency [MHz] Channel Number	835.000 0	TSL Permittivity	42.0
Group UID	CW 0--	TSL Conductivity [S/m]	0.880
Conversion Factor	8.5	Phantom Section TSL	Flat HSL

Hardware Setup

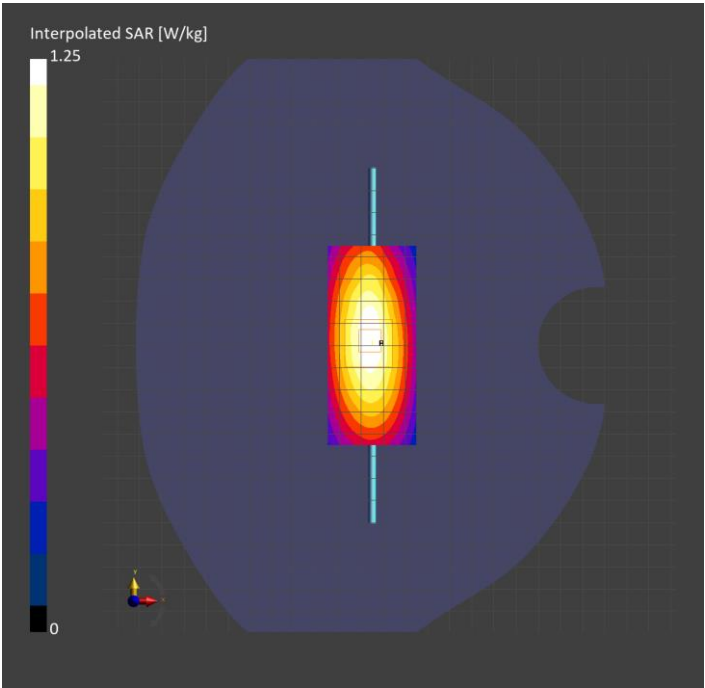
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		93.1
Dist 3dB Peak [mm]		16.8

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.893	0.902
psSAR10g [W/Kg]	0.590	0.612
Power Drift [dB]	N/A	0.05



Appendix H Supplemental 10g Data

System Performance Check Report for D750V3 - SN1024

Exposure Conditions

Frequency [MHz] Channel Number	750.000 0	TSL Permittivity	43.7
Group UID	CW 0--	TSL Conductivity [S/m]	0.875
Conversion Factor	9.07	Phantom Section TSL	Flat HSL

Hardware Setup

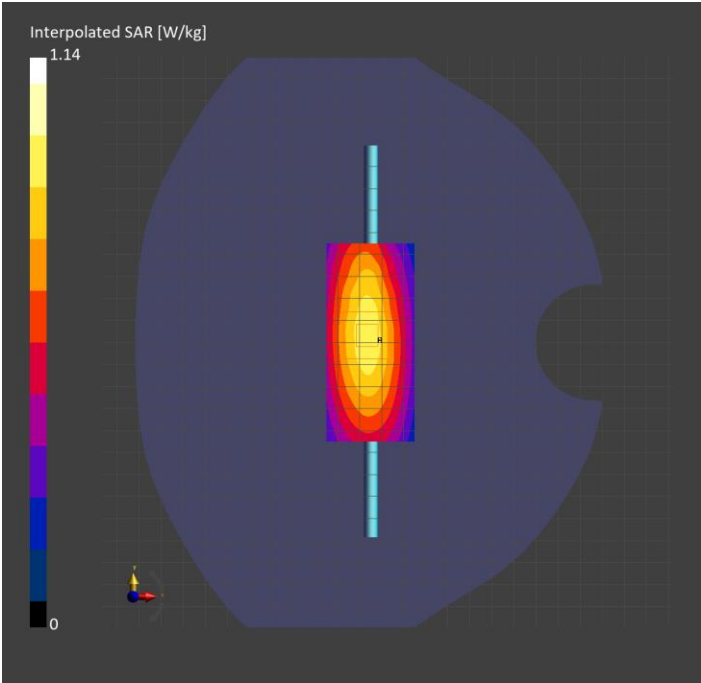
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		92.8
Dist 3dB Peak [mm]		19.7

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.814	0.821
psSAR10g [W/Kg]	0.545	0.565
Power Drift [dB]	N/A	0.10



PLOT 3

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-02, 01:12

System Performance Check Report for D1900V2 - SN5d163

Exposure Conditions

Frequency [MHz] Channel Number	1900.000 0	TSL Permittivity	41.0
Group UID	CW 0--	TSL Conductivity [S/m]	1.41
Conversion Factor	8.38	Phantom Section TSL	Flat HS

Hardware Setup

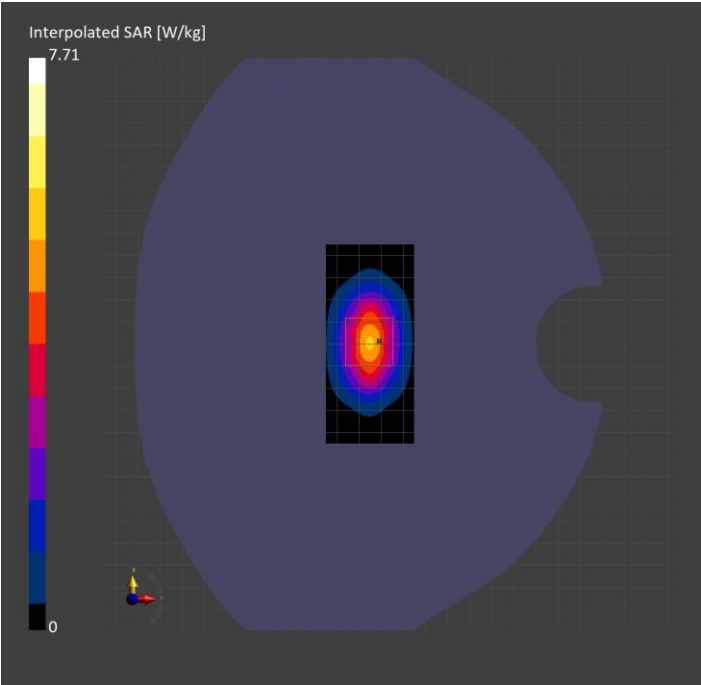
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantc Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		84.6
Dist 3dB Peak [mm]		9.6

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	4.18	4.27
psSAR10g [W/Kg]	2.15	2.24
Power Drift [dB]	N/A	0.06



PLOT 4

System Performance Check Report for D2600V2 - SN1006

Exposure Conditions

Frequency [MHz] Channel Number	2600.000 0	TSL Permittivity	40.2
Group UID	CW 0--	TSL Conductivity [S/m]	1.94
Conversion Factor	8.02	Phantom Section TSL	Flat HS

Hardware Setup

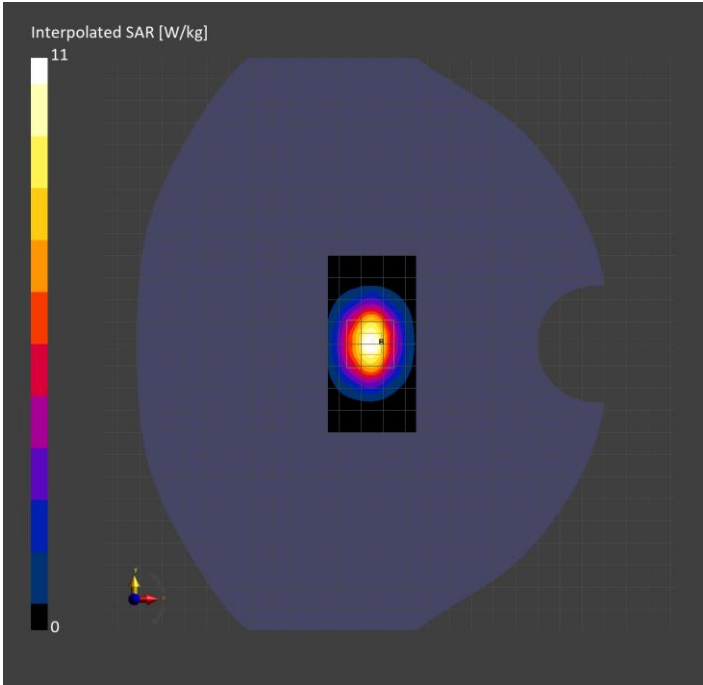
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantc Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		79.8
Dist 3dB Peak [mm]		9.0

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	5.16	5.21
psSAR10g [W/Kg]	2.31	2.35
Power Drift [dB]	N/A	-0.05



PLOT 5

System Performance Check Report for D3500V2 - SN1011

Exposure Conditions

Frequency [MHz] Channel Number	3500.000 0	TSL Permittivity	39.2
Group UID	CW 0--	TSL Conductivity [S/m]	2.78
Conversion Factor	6.87	Phantom Section TSL	Flat HS

Hardware Setup

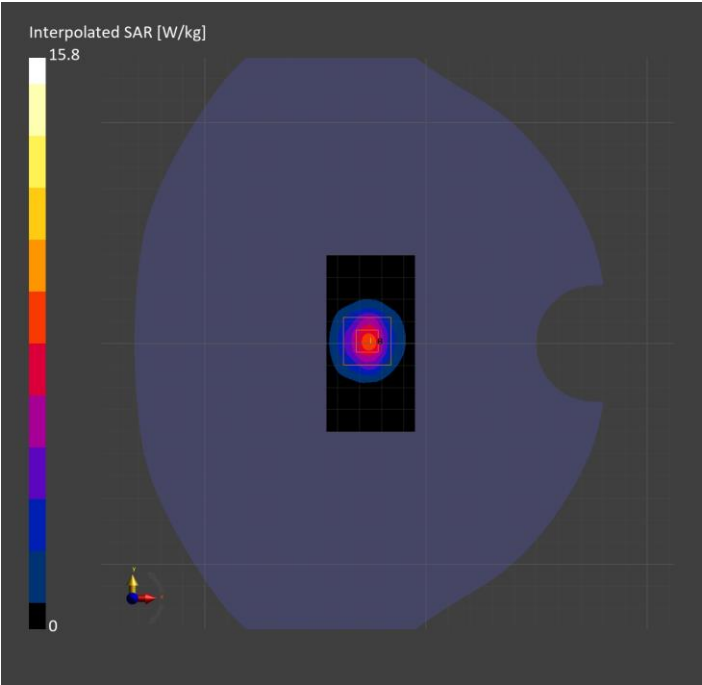
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantc Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		76.8
Dist 3dB Peak [mm]		8.0

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	6.24	6.25
psSAR10g [W/Kg]	2.40	2.40
Power Drift [dB]	N/A	0.01



PLOT 6

System Performance Check Report for D3700V2 - SN1039

Exposure Conditions

Frequency [MHz] Channel Number	3700.000 0	TSL Permittivity	38.9
Group UID	CW 0--	TSL Conductivity [S/m]	2.97
Conversion Factor	6.92	Phantom Section TSL	Flat HS

Hardware Setup

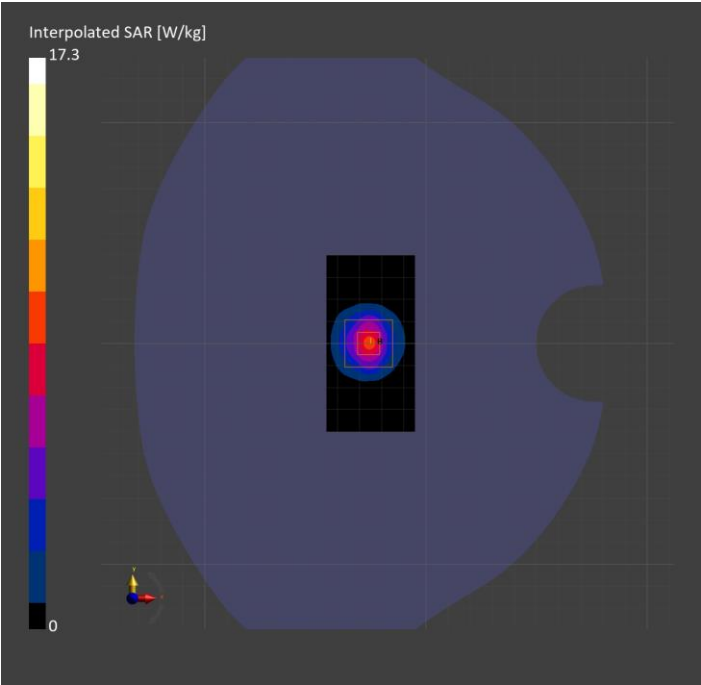
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantc Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.2
Dist 3dB Peak [mm]		8.0

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	6.44	6.47
psSAR10g [W/Kg]	2.38	2.40
Power Drift [dB]	N/A	-0.02



PLOT 7

System Performance Check Report for D3500V2 - SN1011

Exposure Conditions

Frequency [MHz] Channel Number	3500.000 0	TSL Permittivity	39.7
Group UID	CW 0--	TSL Conductivity [S/m]	2.77
Conversion Factor	6.87	Phantom Section TSL	Flat HS

Hardware Setup

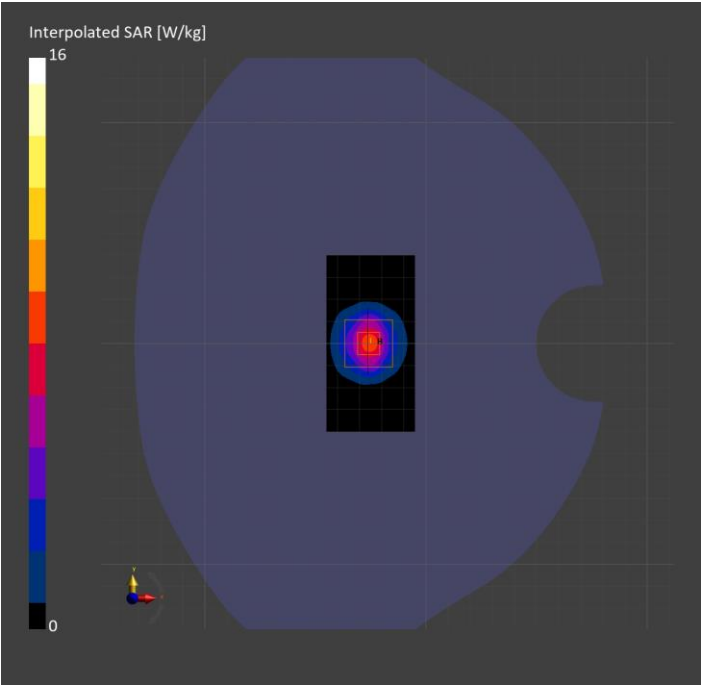
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantc Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		77.1
Dist 3dB Peak [mm]		8.3

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	6.35	6.34
psSAR10g [W/Kg]	2.42	2.44
Power Drift [dB]	N/A	0.00



PLOT 8

System Performance Check Report for D3900V2 - SN1102

Exposure Conditions

Frequency [MHz] Channel Number	3900.000 0	TSL Permittivity	39.1
Group UID	CW 0--	TSL Conductivity [S/m]	3.16
Conversion Factor	6.75	Phantom Section TSL	Flat HS

Hardware Setup

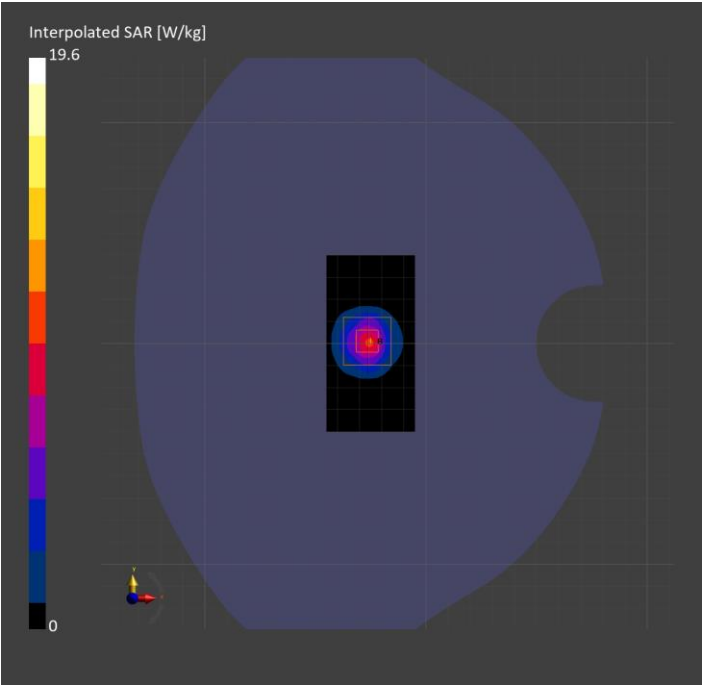
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantc Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		74.2
Dist 3dB Peak [mm]		8.0

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	6.84	6.97
psSAR10g [W/Kg]	2.42	2.46
Power Drift [dB]	N/A	0.02



PLOT 9

System Performance Check Report for D1750V2 - SN1077

Exposure Conditions

Frequency [MHz] Channel Number	1750.000 0	TSL Permittivity	38.1
Group UID	CW 0--	TSL Conductivity [S/m]	1.32
Conversion Factor	8.62	Phantom Section TSL	Flat HS

Hardware Setup

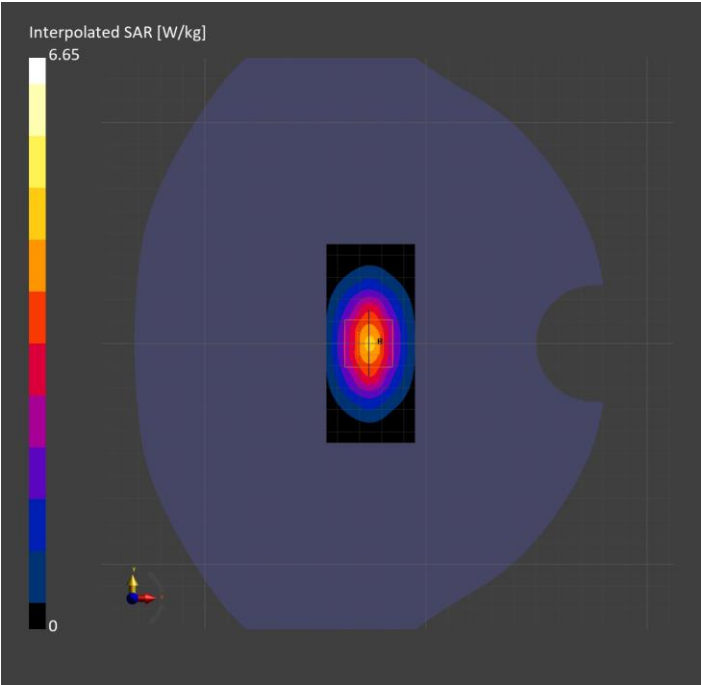
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantc Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		82.6
Dist 3dB Peak [mm]		10.8

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.67	3.57
psSAR10g [W/Kg]	1.94	1.90
Power Drift [dB]	N/A	-0.02



PLOT 10

System Performance Check Report for D750V3 - SN1024

Exposure Conditions

Frequency [MHz] Channel Number	750.000 0	TSL Permittivity	43.2
Group UID	CW 0--	TSL Conductivity [S/m]	0.873
Conversion Factor	10.23	Phantom Section TSL	Flat HS

Hardware Setup

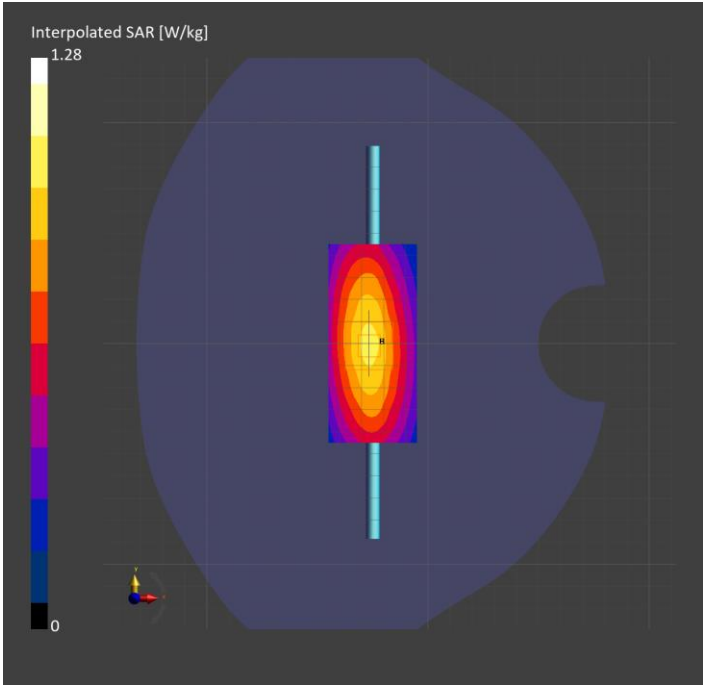
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantc Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Ty HBBL-600-10000
Software Version	16.2.4.2524	

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		88.0
Dist 3dB Peak [mm]		19.7

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.870	0.851
psSAR10g [W/Kg]	0.579	0.564
Power Drift [dB]	N/A	-0.02



PLOT 11

5. 10g Data Highest Test Plots

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-03, 17:24

GSM 850: GPRS-FDD (TDMA, GMSK, TN 0-1), FRONT

Exposure Conditions

Band	GSM 850	TSL Permittivity	42.0
Frequency [MHz] Channel Number	836.600 190	TSL Conductivity [S/m]	0.881
Group UID	GSM 10024-DAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.5	Test Distance [mm]	2.00

Hardware Setup

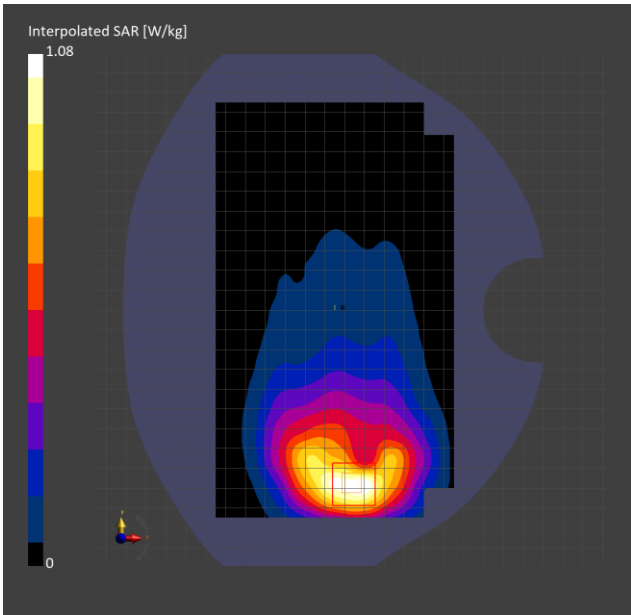
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		87.1
Dist 3dB Peak [mm]		10.9
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	1.08 [-9.7, -85.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.597	0.635
psSAR10g [W/Kg]	0.383	0.373
Power Drift [dB]	N/A	-0.00



PLOT 1

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-03, 01:14

PCS 1900: GPRS-FDD (TDMA, GMSK, TN 0-1-2), BACK

Exposure Conditions

Band	PCS 1900	TSL Permittivity	41.0
Frequency [MHz] Channel Number	1880.000 661	TSL Conductivity [S/m]	1.40
Group UID	GSM 10027-DAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.38	Test Distance [mm]	0.00

Hardware Setup

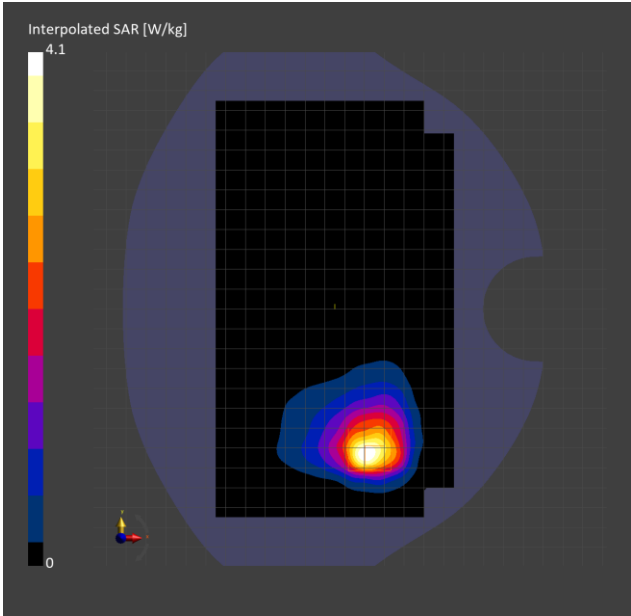
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		71.8
Dist 3dB Peak [mm]		7.6
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	4.10 [-0.7, -75.3, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.54	1.75
psSAR10g [W/Kg]	0.801	0.838
Power Drift [dB]	N/A	0.00



PLOT 2

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-03, 13:53

Band 2: UMTS-FDD (WCDMA), BACK

Exposure Conditions

Band	Band 2	TSL Permittivity	41.0
Frequency [MHz] Channel Number	1907.600 9538	TSL Conductivity [S/m]	1.42
Group UID	WCDMA 10011-CAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.38	Test Distance [mm]	0.00

Hardware Setup

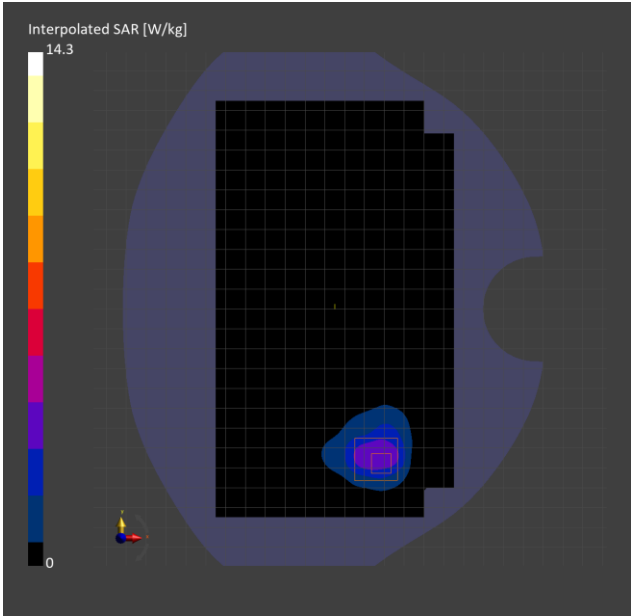
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		63.2
Dist 3dB Peak [mm]		6.5
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	14.3 [2.0, -81.3, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.89	5.17
psSAR10g [W/Kg]	2.06	2.26
Power Drift [dB]	N/A	0.01



PLOT 3

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-06, 09:50

Band 4: UMTS-FDD (WCDMA), BACK

Exposure Conditions

Band	Band 4	TSL Permittivity	41.1
Frequency [MHz] Channel Number	1732.600 1413	TSL Conductivity [S/m]	1.34
Group UID	WCDMA 10011-CAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.03	Test Distance [mm]	0.00

Hardware Setup

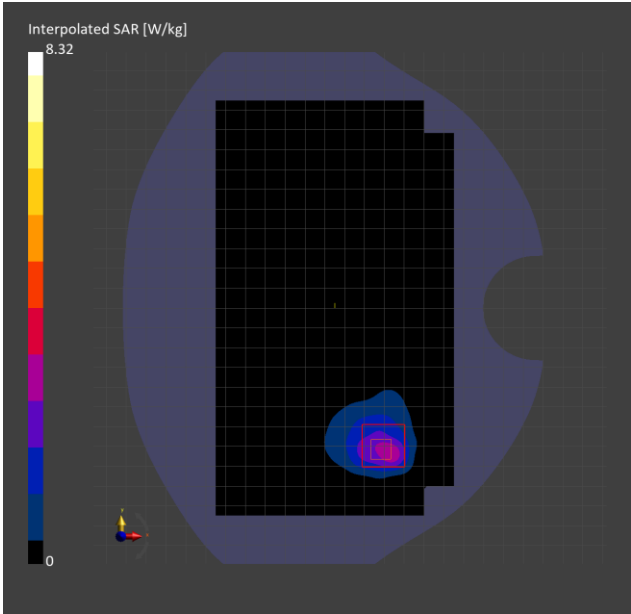
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		74.5
Dist 3dB Peak [mm]		7.3
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	8.32 [0.5, -71.7, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.58	3.27
psSAR10g [W/Kg]	1.34	1.35
Power Drift [dB]	N/A	0.00



PLOT 4

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-03, 00:56

Band 5: UMTS-FDD (WCDMA), EDGE BOTTOM

Exposure Conditions

Band	Band 5	TSL Permittivity	42.0
Frequency [MHz] Channel Number	836.600 4183	TSL Conductivity [S/m]	0.881
Group UID	WCDMA 10011-CAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.5	Test Distance [mm]	0.00

Hardware Setup

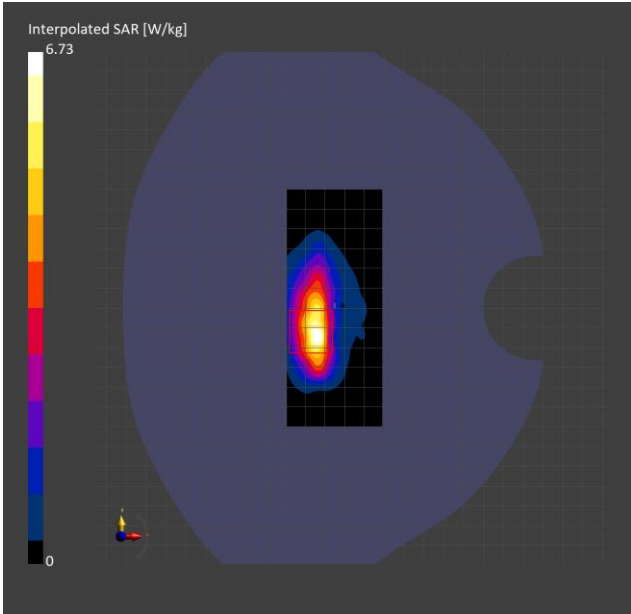
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		59.3
Dist 3dB Peak [mm]		4.8
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	6.73 [-32.0, -22.8, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.30	2.24
psSAR10g [W/Kg]	1.18	1.00
Power Drift [dB]	N/A	0.03



PLOT 5

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-04, 00:57

Band 2: LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:Low
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 2	TSL Permittivity	41.0
Frequency [MHz] Channel Number	1900.000 19100	TSL Conductivity [S/m]	1.41
Group UID	LTE-FDD 10297-AAE	Phantom Section TSL	Flat HSL
Conversion Factor	8.38	Test Distance [mm]	0.00

Hardware Setup

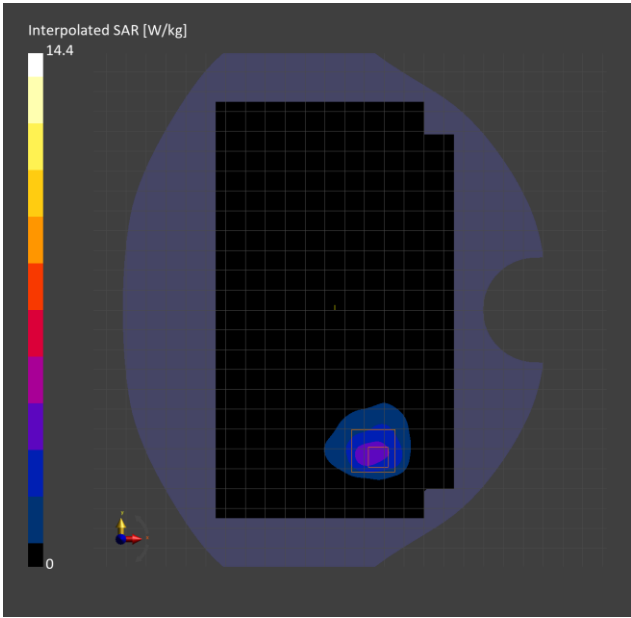
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		49.7
Dist 3dB Peak [mm]		5.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	14.4 [0.5, -76.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.55	4.31
psSAR10g [W/Kg]	1.85	1.91
Power Drift [dB]	N/A	-0.00



PLOT 6

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-07, 14:27

Band 2: LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:Low
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 2	TSL Permittivity	41.3
Frequency [MHz] Channel Number	1860.000 18700	TSL Conductivity [S/m]	1.42
Group UID	LTE-FDD 10297-AAE	Phantom Section TSL	Flat HSL
Conversion Factor	8.38	Test Distance [mm]	0.00

Hardware Setup

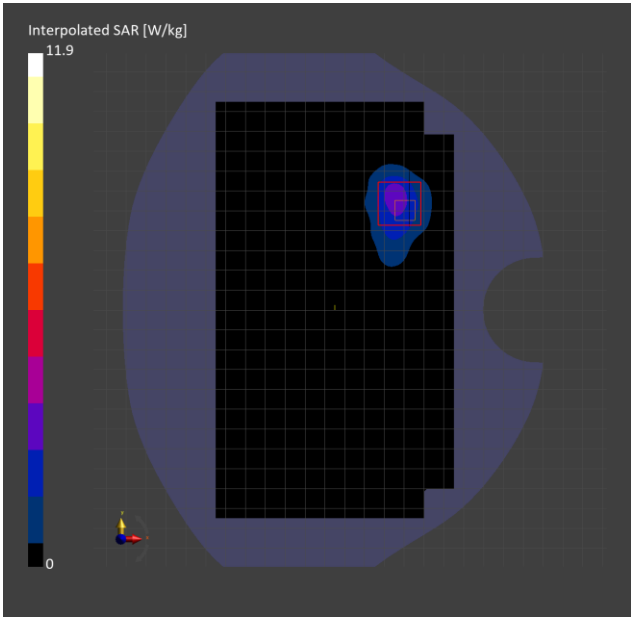
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		65.2
Dist 3dB Peak [mm]		4.8
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	11.9 [12.8, 48.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.91	4.23
psSAR10g [W/Kg]	1.50	1.83
Power Drift [dB]	N/A	-0.09



PLOT 7

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-03, 09:07

Band 5: LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition:Mid
AntennaCfg:SISO, EDGE BOTTOM

Exposure Conditions

Band	Band 5	TSL Permittivity	42.0
Frequency [MHz] Channel Number	836.500 20525	TSL Conductivity [S/m]	0.881
Group UID	LTE-FDD 10175-CAH	Phantom Section TSL	Flat HSL
Conversion Factor	8.5	Test Distance [mm]	0.00

Hardware Setup

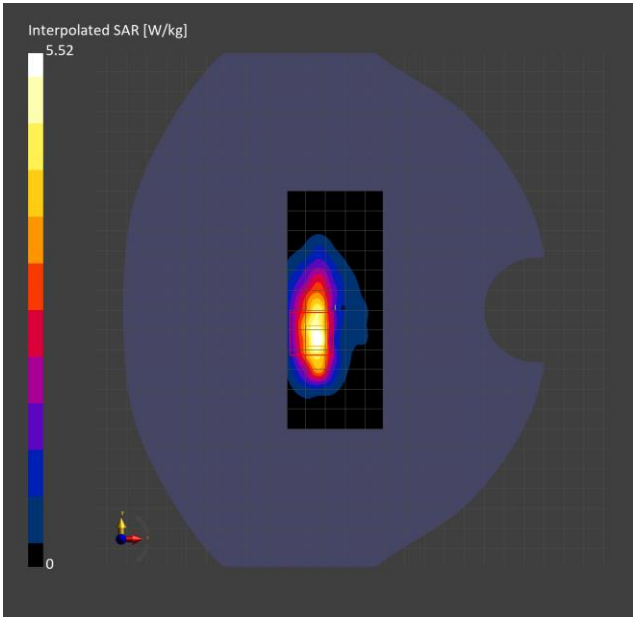
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		80.2
Dist 3dB Peak [mm]		6.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	5.52 [-32.0, -24.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.09	2.06
psSAR10g [W/Kg]	1.09	0.934
Power Drift [dB]	N/A	0.01



PLOT 8

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-03, 10:55

Band 12: LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition:Low
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 12	TSL Permittivity	43.7
Frequency [MHz] Channel Number	707.500 23095	TSL Conductivity [S/m]	0.858
Group UID	LTE-FDD 10175-CAH	Phantom Section TSL	Flat HSL
Conversion Factor	9.07	Test Distance [mm]	0.00

Hardware Setup

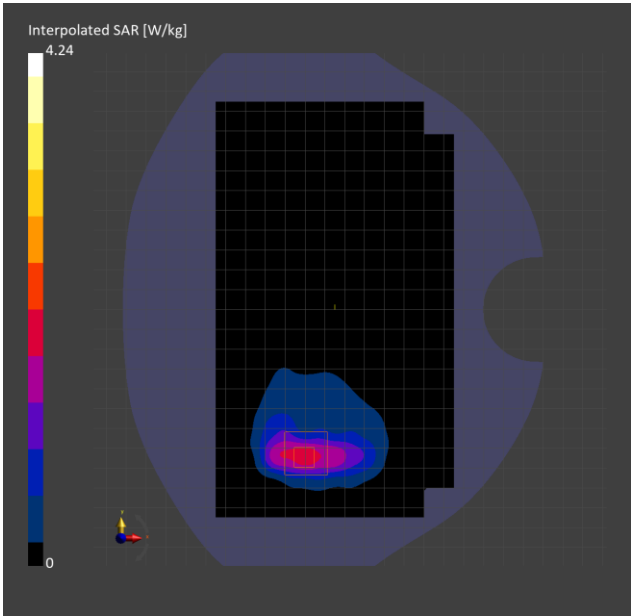
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		65.5
Dist 3dB Peak [mm]		6.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	4.24 [-43.0, -75.3, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.66	1.49
psSAR10g [W/Kg]	0.973	0.716
Power Drift [dB]	N/A	0.03



PLOT 9

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-03, 18:59

Band 13: LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RBPosition:High
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 13	TSL Permittivity	43.6
Frequency [MHz] Channel Number	782.000 23230	TSL Conductivity [S/m]	0.886
Group UID	LTE-FDD 10175-CAH	Phantom Section TSL	Flat HSL
Conversion Factor	9.07	Test Distance [mm]	0.00

Hardware Setup

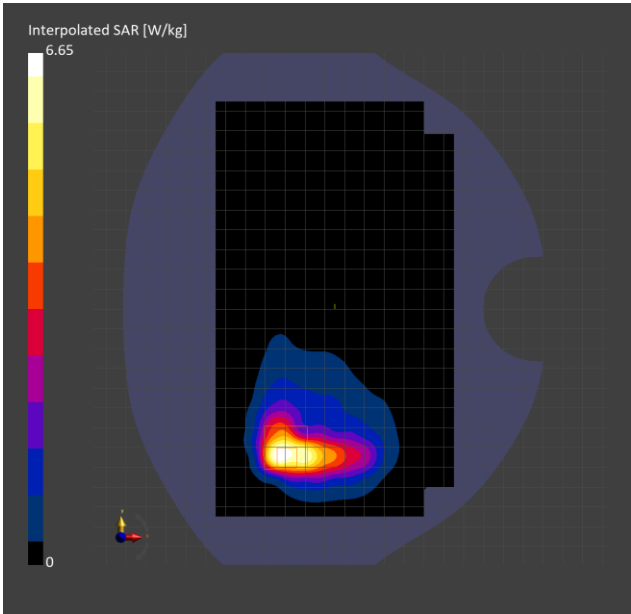
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		60.2
Dist 3dB Peak [mm]		3.6
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	6.65 [-49.0, -76.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.03	1.80
psSAR10g [W/Kg]	1.15	0.829
Power Drift [dB]	N/A	-0.00



PLOT 10

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-03, 23:43

Band 26: LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) RBPosition:Low
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 26	TSL Permittivity	42.0
Frequency [MHz] Channel Number	831.500 26865	TSL Conductivity [S/m]	0.879
Group UID	LTE-FDD 10181-CAF	Phantom Section TSL	Flat HSL
Conversion Factor	8.5	Test Distance [mm]	0.00

Hardware Setup

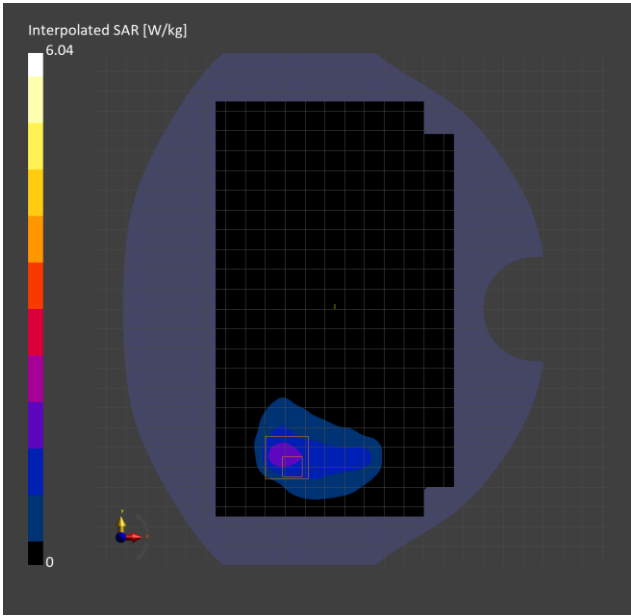
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		4.8
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	6.04 [-59.8, -70.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.55	1.85
psSAR10g [W/Kg]	0.900	0.882
Power Drift [dB]	N/A	0.00



PLOT 11

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-03, 17:23

Band 41: LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
RBPosition:Low AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 41	TSL Permittivity	39.7
Frequency [MHz] Channel Number	2593.000 40620	TSL Conductivity [S/m]	1.90
Group UID	LTE-TDD 10494-AAG	Phantom Section TSL	Flat HSL
Conversion Factor	8.02	Test Distance [mm]	0.00

Hardware Setup

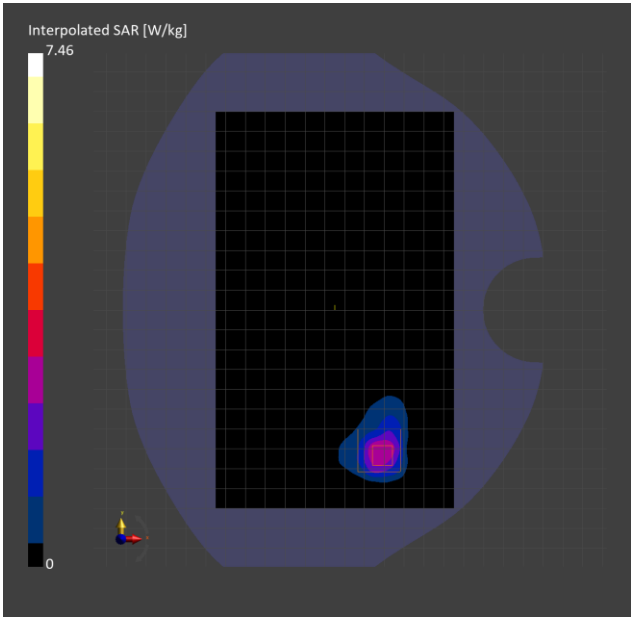
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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
M2/M1 [%]		75.1
Dist 3dB Peak [mm]		7.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	7.46 [-1.0, -74.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.43	2.71
psSAR10g [W/Kg]	1.06	1.01
Power Drift [dB]	N/A	0.01



PLOT 12

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 10

Date/Time: 2023-11-06, 21:45

Band 66: LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:Low
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 66	TSL Permittivity	38.1
Frequency [MHz] Channel Number	1745.000 132322	TSL Conductivity [S/m]	1.32
Group UID	LTE-FDD 10297-AAE	Phantom Section TSL	Flat HSL
Conversion Factor	8.62	Test Distance [mm]	0.00

Hardware Setup

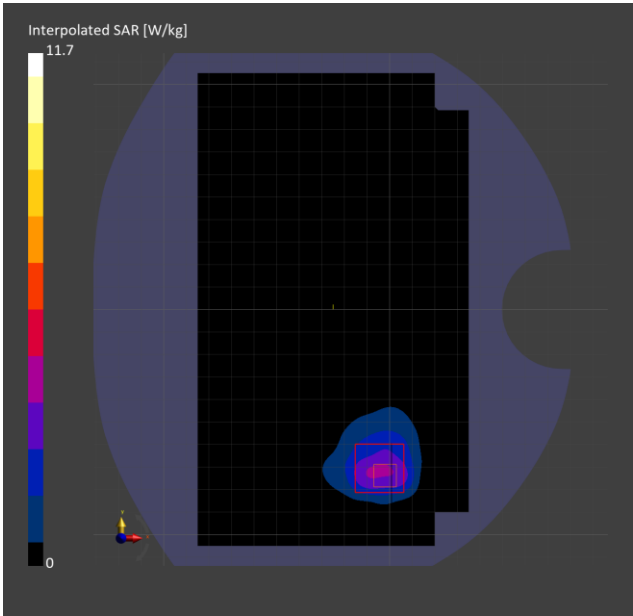
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	4.5 x 4.5 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		64.8
Dist 3dB Peak [mm]		6.3
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	11.7 [1.0, -76.6, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.43	3.97
psSAR10g [W/Kg]	1.83	1.71
Power Drift [dB]	N/A	-0.00



PLOT 13

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-08, 00:23

Band 66: LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:High
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band 66	TSL Permittivity	41.1
Frequency [MHz] Channel Number	1745.000 132322	TSL Conductivity [S/m]	1.35
Group UID	LTE-FDD 10297-AAE	Phantom Section TSL	Flat HSL
Conversion Factor	8.03	Test Distance [mm]	0.00

Hardware Setup

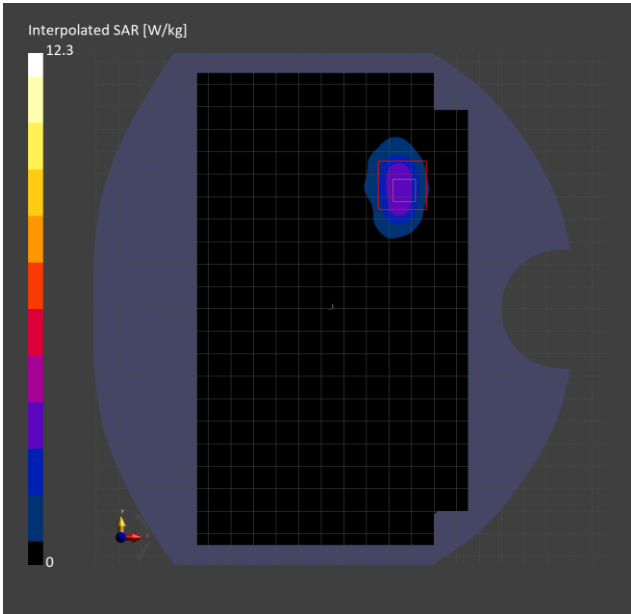
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		64.4
Dist 3dB Peak [mm]		4.8
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	12.3 [8.0, 49.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	3.30	3.91
psSAR10g [W/Kg]	1.64	1.67
Power Drift [dB]	N/A	-0.10



PLOT 14

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-07, 13:37

Band n5: 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) RBPosition:Mid
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band n5	TSL Permittivity	42.8
Frequency [MHz] Channel Number	836.500 167300	TSL Conductivity [S/m]	0.929
Group UID	5G NR FR1 FDD 10939-AAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.5	Test Distance [mm]	0.00

Hardware Setup

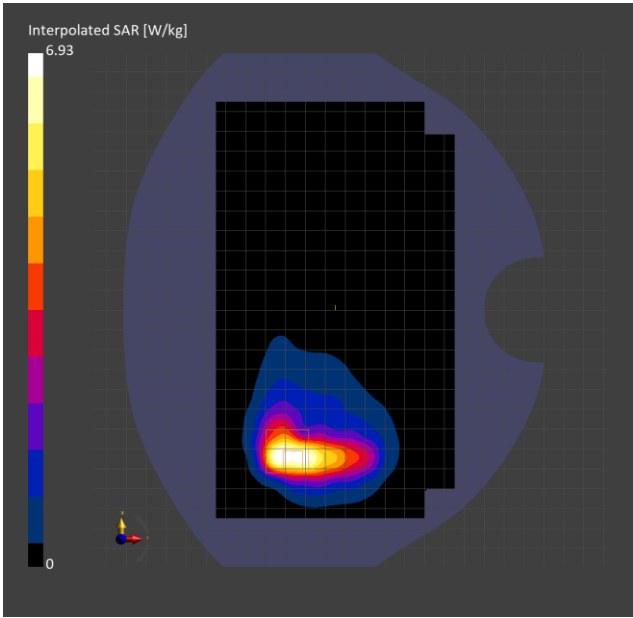
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		61.8
Dist 3dB Peak [mm]		4.8
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	6.93 [-49.0, -76.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.19	1.99
psSAR10g [W/Kg]	1.26	0.915
Power Drift [dB]	N/A	-0.02



PLOT 15

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-07, 10:09

Band n26: 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) RBPosition:Mid
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band n26	TSL Permittivity	42.8
Frequency [MHz] Channel Number	831.500 166300	TSL Conductivity [S/m]	0.927
Group UID	5G NR FR1 FDD 10939-AAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.5	Test Distance [mm]	0.00

Hardware Setup

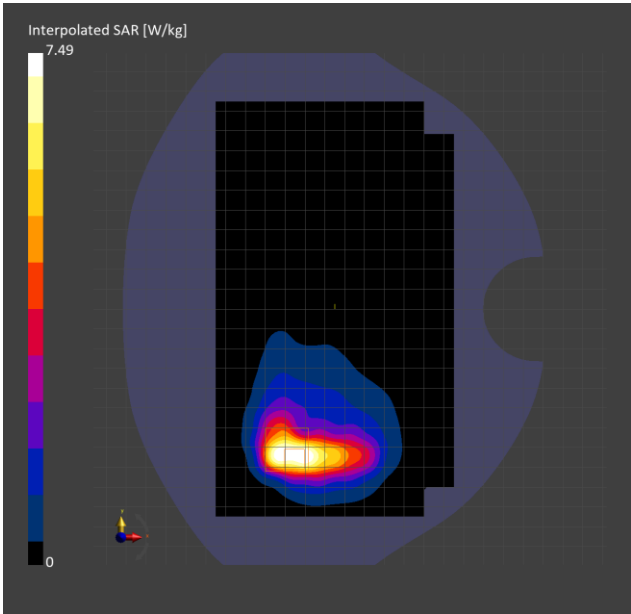
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		4.8
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	7.49 [-49.0, -76.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.34	2.15
psSAR10g [W/Kg]	1.35	0.991
Power Drift [dB]	N/A	-0.03



PLOT 16

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-06, 14:04

Band n41: 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid
AntennaCfg:SISO, FRONT

Exposure Conditions

Band	Band n41	TSL Permittivity	40.2
Frequency [MHz] Channel Number	2592.990 518598	TSL Conductivity [S/m]	1.94
Group UID	5G NR FR1 TDD 10917-AAD	Phantom Section TSL	Flat HSL
Conversion Factor	8.02	Test Distance [mm]	2.00

Hardware Setup

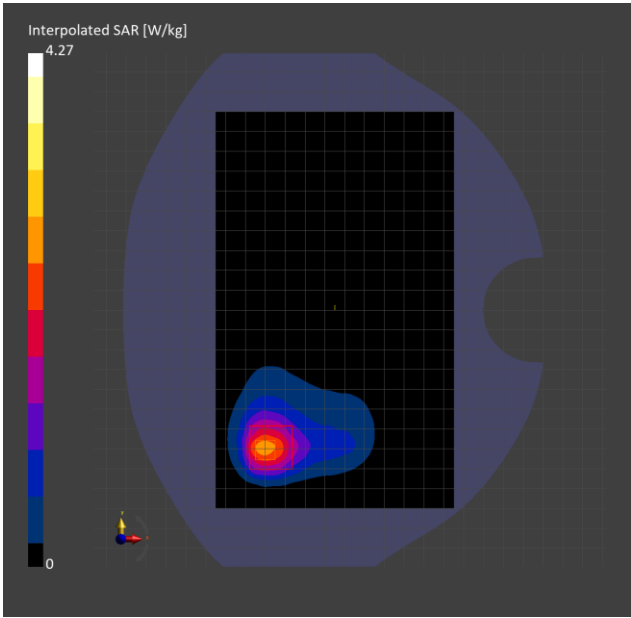
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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
M2/M1 [%]		78.9
Dist 3dB Peak [mm]		9.5
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	4.27 [-60.5, -71.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.09	2.01
psSAR10g [W/Kg]	1.00	0.945
Power Drift [dB]	N/A	-0.14



PLOT 17

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-06, 23:40

Band n41: 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid
AntennaCfg:SISO, EDGE TOP

Exposure Conditions

Band	Band n41	TSL Permittivity	40.2
Frequency [MHz] Channel Number	2592.990 518598	TSL Conductivity [S/m]	1.94
Group UID	5G NR FR1 TDD 10917-AAD	Phantom Section TSL	Flat HSL
Conversion Factor	8.02	Test Distance [mm]	0.00

Hardware Setup

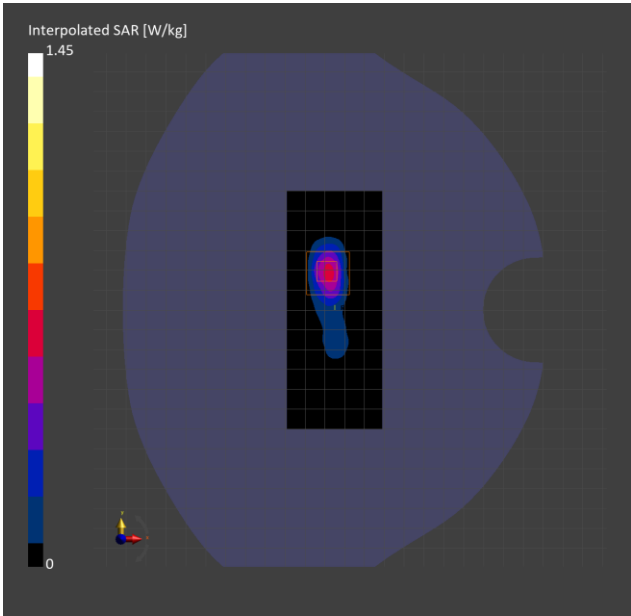
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		70.0
Dist 3dB Peak [mm]		5.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	1.45 [-28.2, 18.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.474	0.491
psSAR10g [W/Kg]	0.180	0.170
Power Drift [dB]	N/A	-0.01



PLOT 18

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-06, 16:23

Band n41: 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band n41	TSL Permittivity	40.2
Frequency [MHz] Channel Number	2592.990 518598	TSL Conductivity [S/m]	1.94
Group UID	5G NR FR1 TDD 10917-AAD	Phantom Section TSL	Flat HSL
Conversion Factor	8.02	Test Distance [mm]	0.00

Hardware Setup

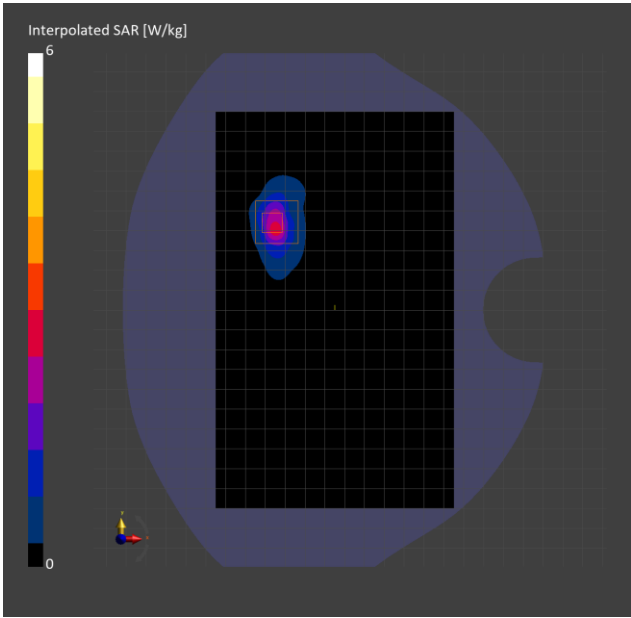
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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
M2/M1 [%]		69.3
Dist 3dB Peak [mm]		4.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	6.00 [-59.0, 45.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.94	1.99
psSAR10g [W/Kg]	0.779	0.727
Power Drift [dB]	N/A	-0.02



PLOT 19

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 2

Date/Time: 2023-11-07, 03:33

Band n41: 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band n41	TSL Permittivity	40.2
Frequency [MHz] Channel Number	2592.990 518598	TSL Conductivity [S/m]	1.94
Group UID	5G NR FR1 TDD 10917-AAD	Phantom Section TSL	Flat HSL
Conversion Factor	8.02	Test Distance [mm]	0.00

Hardware Setup

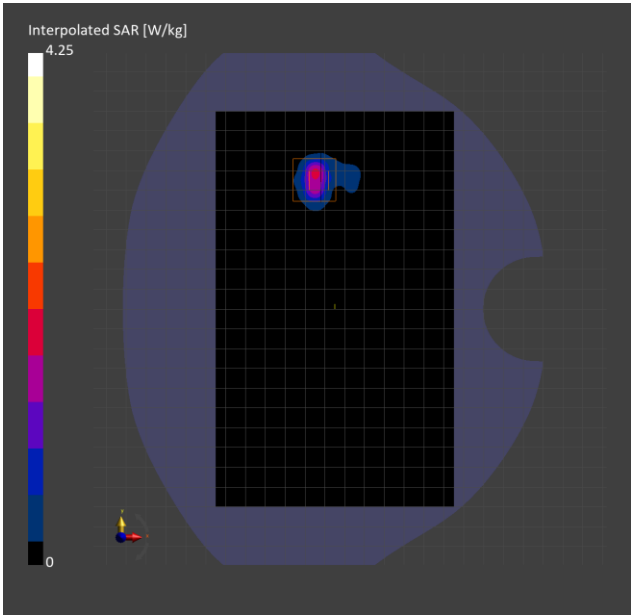
Probe Calibration Date	EX3DV4 - SN7356 2023-03-17	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1674 2023-05-11	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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
M2/M1 [%]		67.1
Dist 3dB Peak [mm]		5.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	4.25 [-32.0, 67.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.32	1.40
psSAR10g [W/Kg]	0.461	0.438
Power Drift [dB]	N/A	-0.08



PLOT 20

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 1

Date/Time: 2023-11-07, 18:23

Band n66: 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) RBPosition:Mid
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band n66	TSL Permittivity	41.1
Frequency [MHz] Channel Number	1745.000 349000	TSL Conductivity [S/m]	1.35
Group UID	5G NR FR1 FDD 10939-AAC	Phantom Section TSL	Flat HSL
Conversion Factor	8.03	Test Distance [mm]	0.00

Hardware Setup

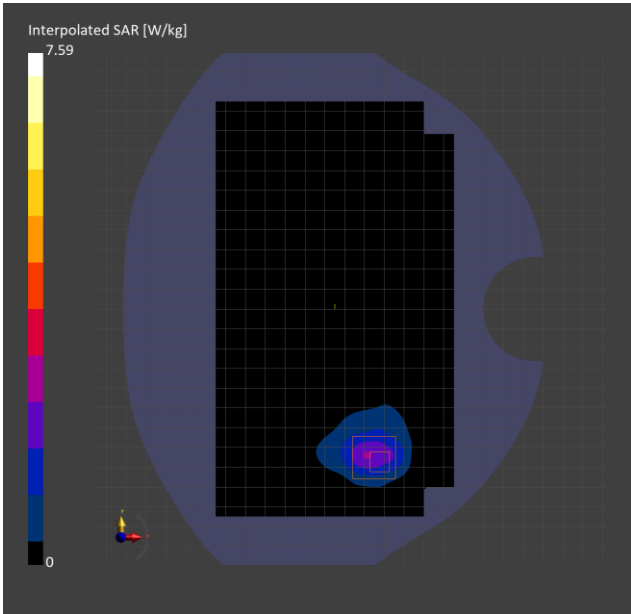
Probe Calibration Date	EX3DV4 - SN7463 2023-04-19	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1357 2023-01-27	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		69.4
Dist 3dB Peak [mm]		6.5
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	7.59 [0.5, -76.5, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.05	2.80
psSAR10g [W/Kg]	1.07	1.22
Power Drift [dB]	N/A	-0.05



PLOT 21

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 10

Date/Time: 2023-10-10, 14:42

Band n77: 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) RBPosition:Low
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band n77	TSL Permittivity	39.2
Frequency [MHz] Channel Number	3499.995 633333	TSL Conductivity [S/m]	2.78
Group UID	5G NR FR1 TDD 10866-AAF	Phantom Section TSL	Flat HSL
Conversion Factor	6.87	Test Distance [mm]	0.00

Hardware Setup

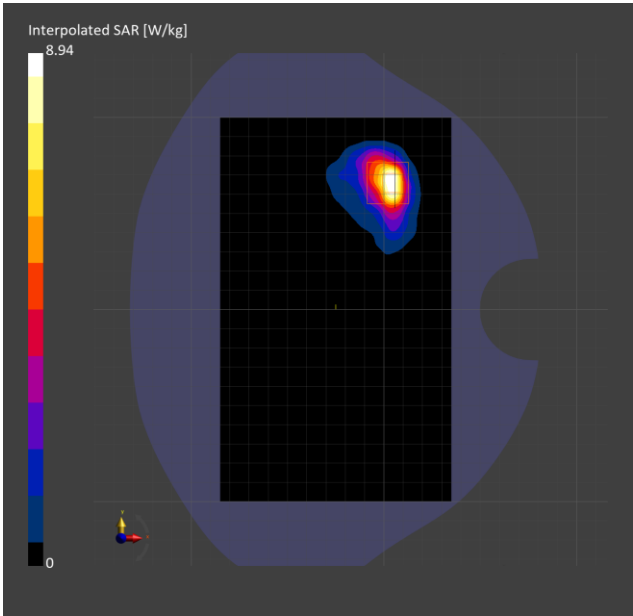
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		70.2
Dist 3dB Peak [mm]		5.4
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	8.94 [6.0, 66.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.57	2.81
psSAR10g [W/Kg]	0.989	0.976
Power Drift [dB]	N/A	-0.00



PLOT 22

Appendix H Supplemental 10g Data

UL Verification Services Inc. SAR Lab 10

Date/Time: 2023-10-10, 16:11

Band n77: 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) RBPosition:Low
AntennaCfg:SISO, BACK

Exposure Conditions

Band	Band n77	TSL Permittivity	38.6
Frequency [MHz] Channel Number	3858.000 657200	TSL Conductivity [S/m]	3.13
Group UID	5G NR FR1 TDD 10866-AAF	Phantom Section TSL	Flat HSL
Conversion Factor	6.75	Test Distance [mm]	0.00

Hardware Setup

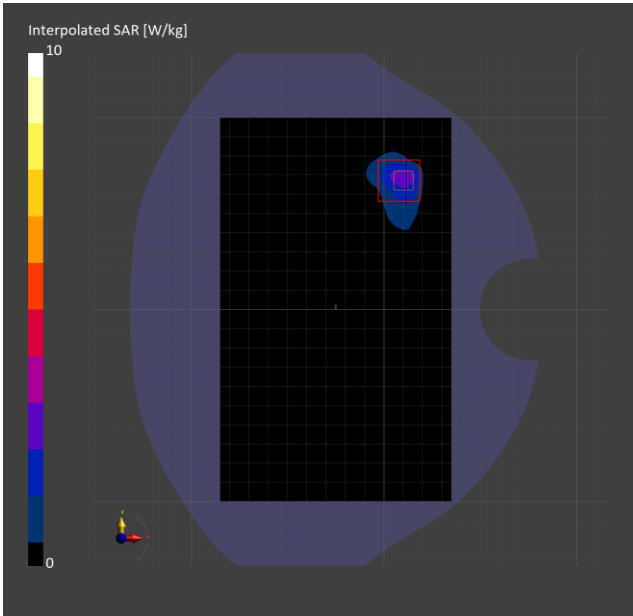
Probe Calibration Date	EX3DV4 - SN7335 2023-01-26	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1472 2023-01-23	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		65.6
Dist 3dB Peak [mm]		5.0
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	10.0 [12.0, 65.0, -207.0]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.17	2.67
psSAR10g [W/Kg]	0.822	0.864
Power Drift [dB]	N/A	0.01



PLOT 23