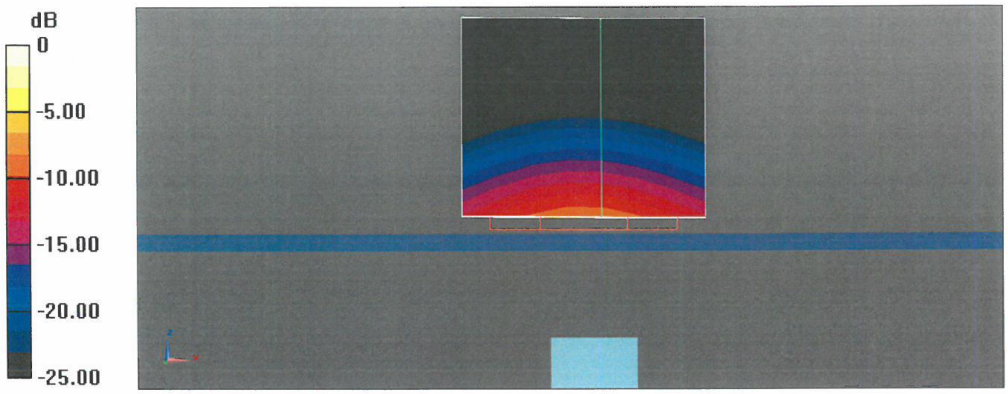
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 80.15 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 28.9 W/kg
SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.35 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 69.1%
Maximum value of SAR (measured) = 19.1 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 80.07 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 33.6 W/kg
SAR(1 g) = 8.80 W/kg; SAR(10 g) = 2.47 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 66.4%
Maximum value of SAR (measured) = 20.9 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 80.82 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 30.8 W/kg
SAR(1 g) = 8.45 W/kg; SAR(10 g) = 2.40 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 67.5%
Maximum value of SAR (measured) = 19.9 W/kg

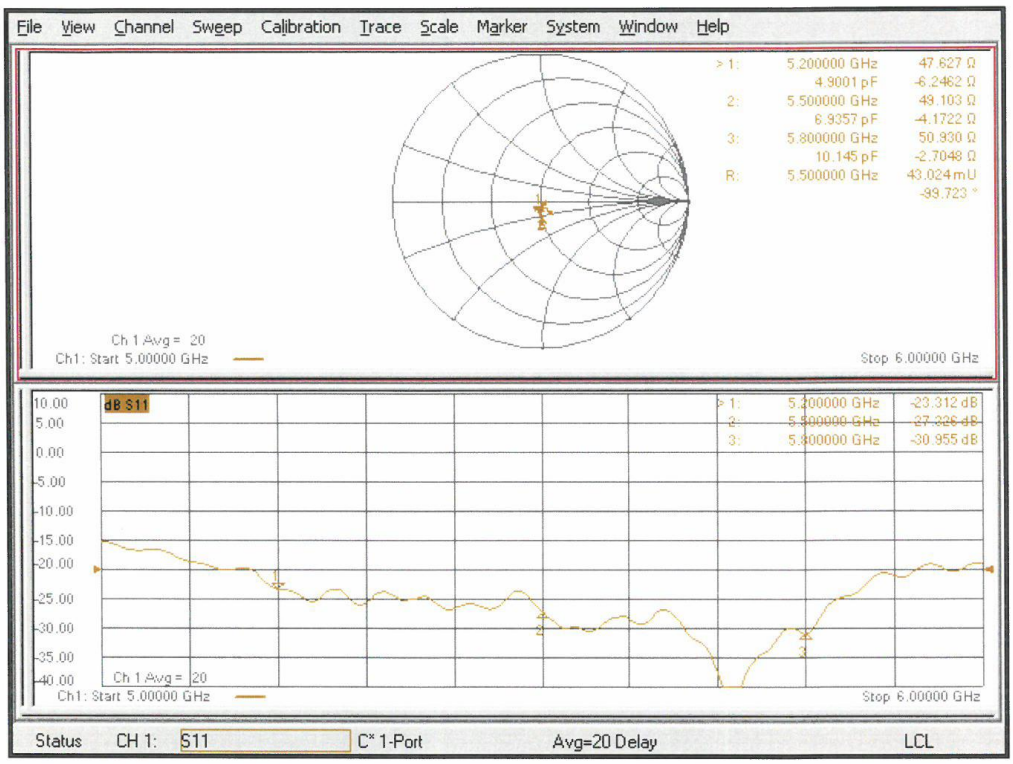
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 78.22 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 31.8 W/kg
SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.30 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 65.8%
Maximum value of SAR (measured) = 19.5 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 77.53 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 31.9 W/kg
SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.31 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 65.4%
Maximum value of SAR (measured) = 19.2 W/kg

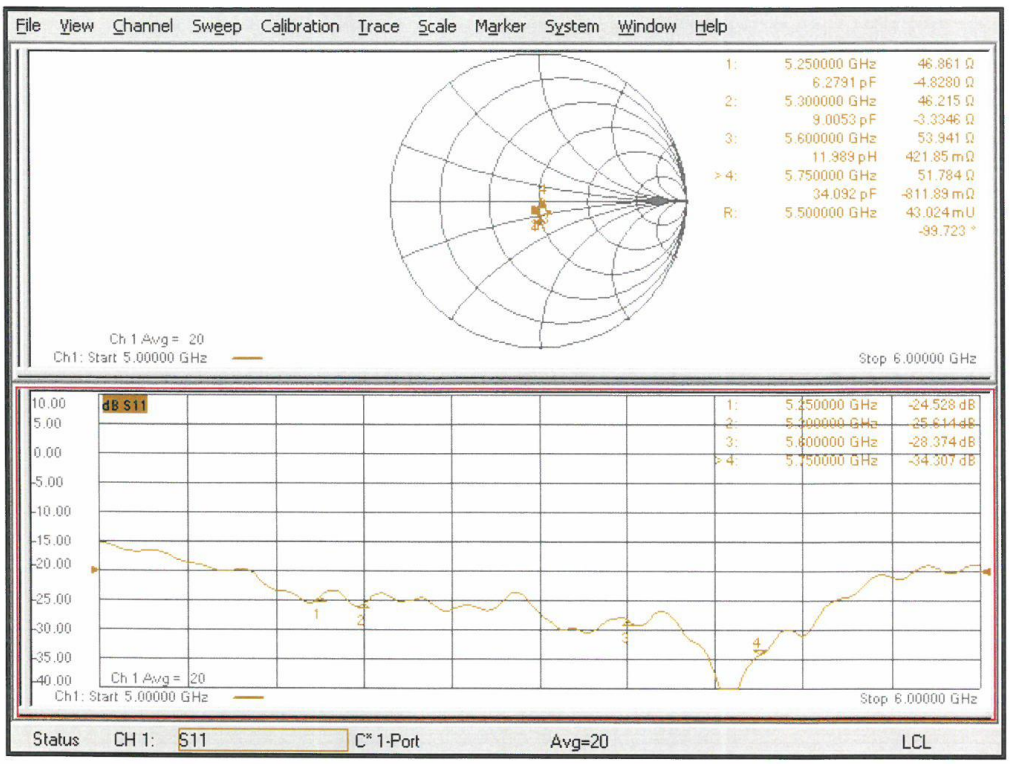


0 dB = 20.9 W/kg = 13.20 dBW/kg

Impedance Measurement Plot for Head TSL (5200, 5500, 5800 MHz)



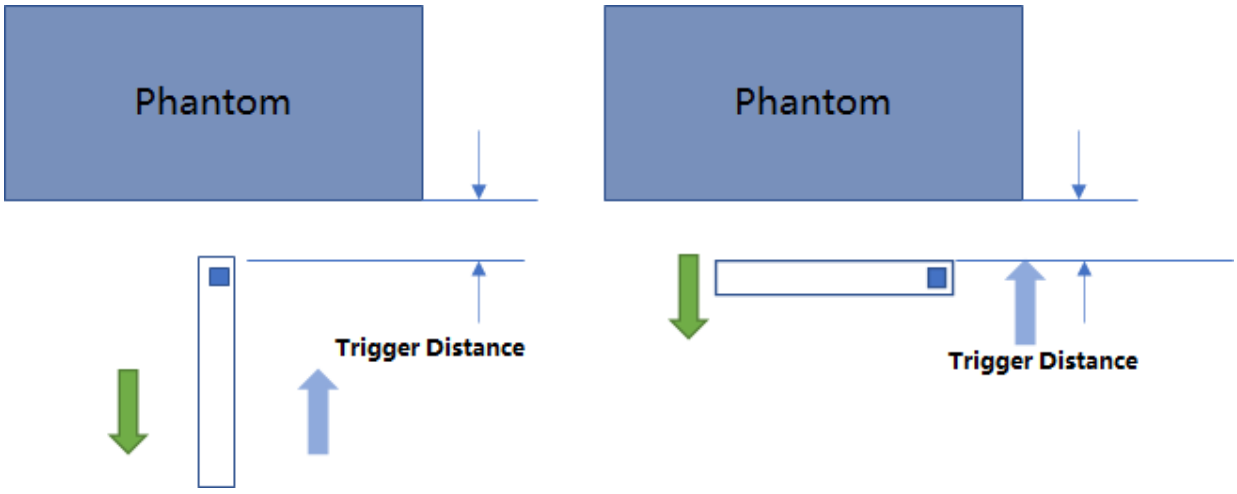
Impedance Measurement Plot for Head TSL (5250, 5300, 5600, 5750 MHz)



ANNEX I Sensor Triggering Data Summary

Rear, Front, Bottom and Top of the DUT was placed directly below the flat phantom. The DUT was moved toward the phantom in accordance with the steps outlined in KDB 616217 to determine the trigger distance for enabling power reduction. The DUT was moved away from the phantom to determine the trigger distance for resuming full power.

The DUT featured a visual indicator on its display that showed the status of the proximity sensor (Triggered or not triggered). This was used to determine the status of the sensor during the proximity sensor assessment as monitoring the output power directly was not practical without affecting the measurement. It was confirmed separately that the output power according to locking the proximity sensor status.



Rear Edge

Moving device toward the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**27**	**26**	**25**	**24**	**23**	**22**	**21**	**20**	**19**	**18**	**17**
ANT11	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

Moving device away from the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**
ANT11	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

Front Edge

Moving device toward the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**23**	**22**	**21**	**20**	**19**	**18**	**17**	**16**	**15**	**14**	**13**
ANT13	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

Moving device away from the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**
ANT13	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

Top Edge

Moving device toward the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**27**	**26**	**25**	**24**	**23**	**22**	**21**	**20**	**19**	**18**	**17**
ANT13	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

Moving device away from the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**17**	**18**	**19**	**20**	**21**	**22**	**22**	**23**	**24**	**25**	**26**
2	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

Bottom Edge

Moving device toward the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**27**	**26**	**25**	**24**	**23**	**22**	**21**	**20**	**19**	**18**	**17**
ANT13	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

Moving device away from the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**17**	**18**	**19**	**20**	**21**	**22**	**22**	**23**	**24**	**25**	**26**
2	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

Left Edge

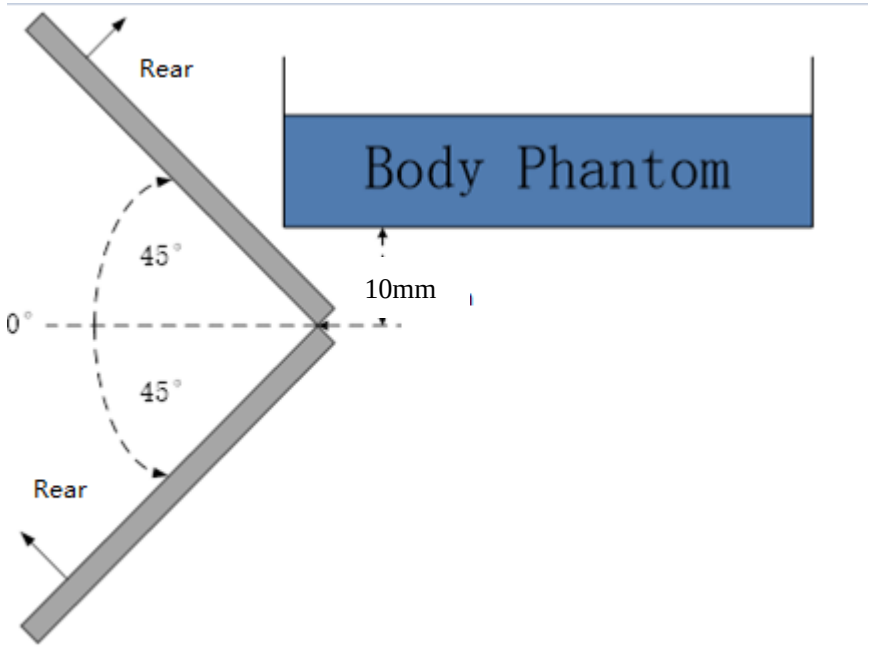
Moving device toward the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**23**	**22**	**21**	**20**	**19**	**18**	**17**	**16**	**15**	**14**	**13**
ANT13	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

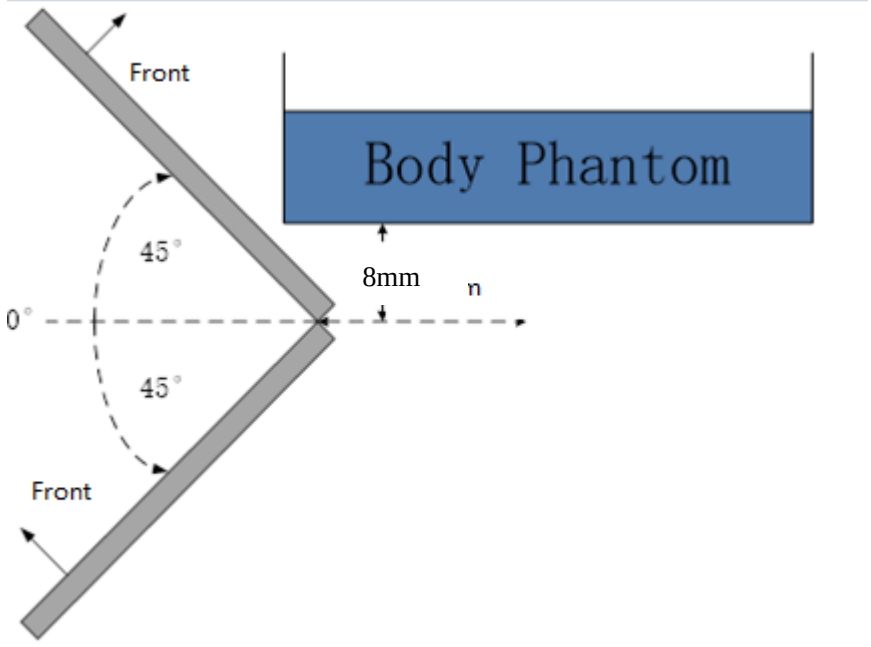
Moving device away from the phantom:

sensor triggered (YES or NO)											
Distance [mm]	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**
ANT13	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

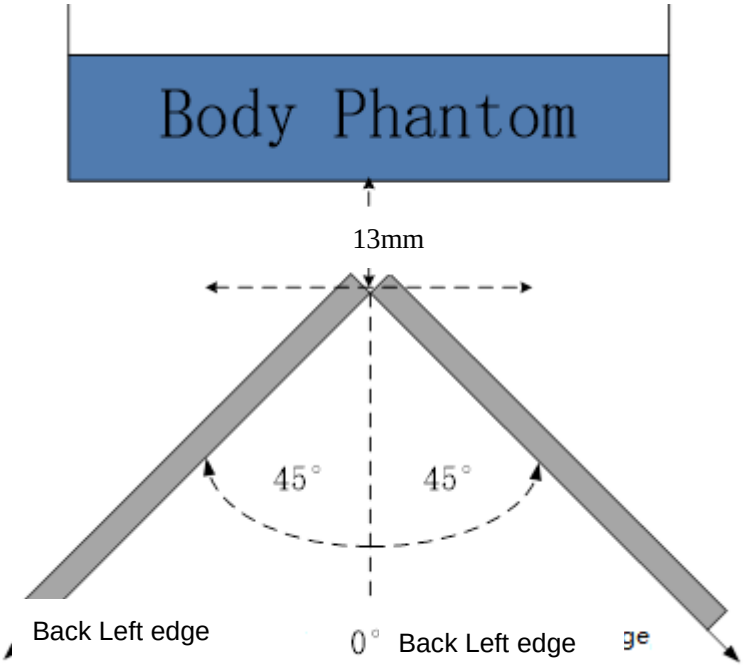
Per FCC KDB Publication 616217 D04v01r02, the influence of table tilt angles to proximity sensor triggering is determined by positioning each edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distanceby rotating the device around the edge next to the phantom in ≤ 10° increments until the tablet is ±45° or more from the vertical position at 0°.



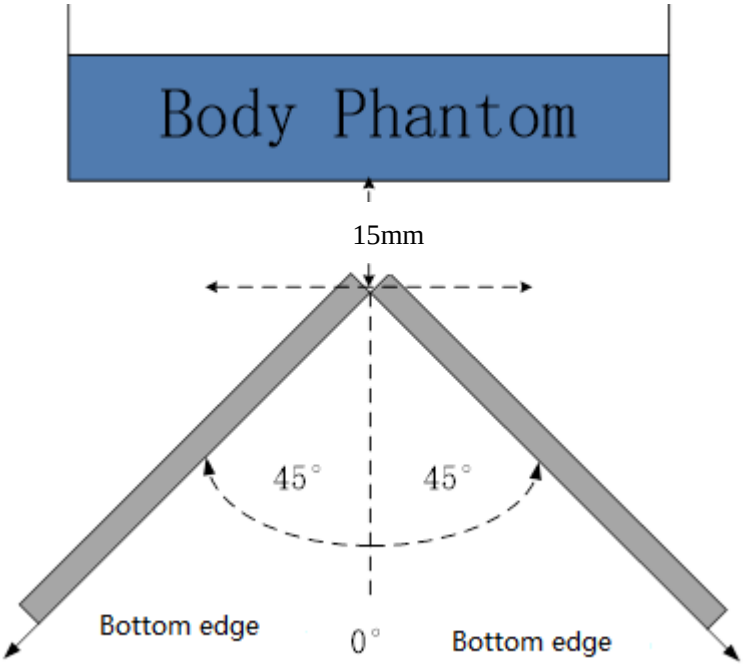
The Rear evaluation



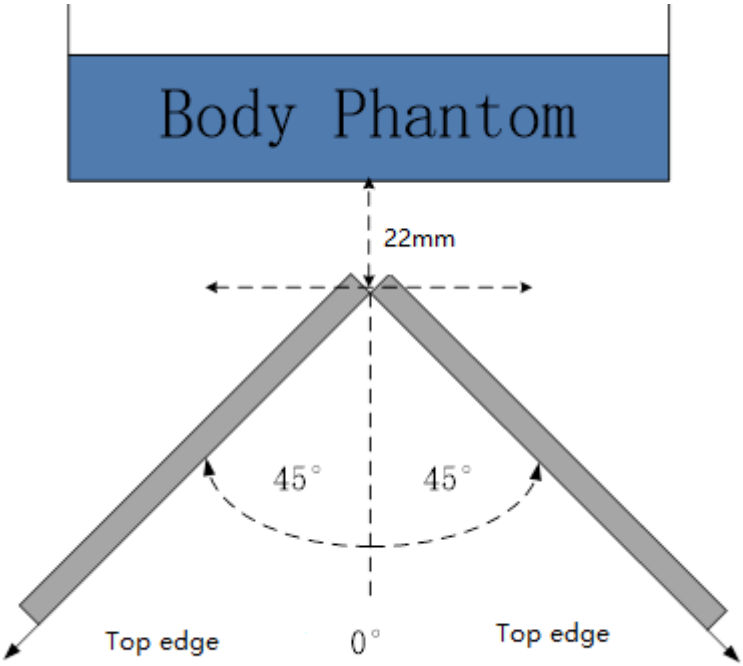
The Front edge evaluation



The Left edge evaluation



The Top edge evaluation



The Bottom edge evaluation

Based on the above evaluation, we come to the conclusion that the sensor triggering is not released and normal maximum output power is not restored within the ±45° range at the smallest sensor triggering test distance declared by manufacturer.

ANNEX J SPOT CHECK

J.1Measurement results

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 10g (W/kg)	Measured SAR 1g (W/kg)	Calculated SAR 10g (W/kg)	Calculated SAR 1g (W/kg)	Power Drift
Head	GSM850	251	848.8		Right Cheek	0mm	Fig.A1	32.31	33.50	0.191	0.230	0.25	0.30	0.12
Body	GSM850	251	848.8	GPRS(2TX)	Rear	10mm	Fig.A2	30.58	32.00	0.286	0.492	0.40	0.68	0.19
Head	GSM1900	810	1909.8		Right Tilt	0mm	Fig.A3	20.81	22.50	0.151	0.309	0.22	0.46	-0.05
Body	GSM1900	810	1909.8	GPRS(2TX)	Front	17mm	Fig.A4	27.50	29.00	0.079	0.301	0.11	0.43	0.09
Head	WCDMA1900	9538	1907.6	RMC	Right Tilt	0mm	Fig.A5	15.80	17.00	0.347	0.716	0.46	0.94	0.02
Body	WCDMA1900	9400	1880	RMC	Front	17mm	Fig.A6	23.28	25.00	0.267	0.436	0.40	0.65	0.08
Head	WCDMA1700	1513	1752.6	RMC	Right Cheek	0mm	Fig.A7	15.60	17.00	0.270	0.506	0.37	0.70	0.05
Body	WCDMA1700	1412	1732.5	RMC	Front	17mm	Fig.A8	23.36	25.00	0.198	0.316	0.29	0.46	-0.07
Head	WCDMA 850	4233	846.6	RMC	Right Cheek	0mm	Fig.A9	23.93	25.00	0.267	0.353	0.34	0.45	-0.13
Body	WCDMA 850	4233	846.6	RMC	Rear	10mm	Fig.A10	23.93	25.00	0.263	0.458	0.34	0.59	-0.04
Head	LTE Band2 ANT0	18700	1860	1RB-Low	Right Cheek	0mm	Fig.A27	24.39	25.00	0.051	0.094	0.06	0.11	-0.03
Body	LTE Band2 ANT0	18700	1860	1RB-Low	Right Edge	10mm	Fig.A28	24.39	25.00	0.086	0.140	0.10	0.16	0.09
Head	LTE Band12	23130	711	1RB-Low	Left Cheek	0mm	Fig.A11	21.50	22.00	0.071	0.091	0.08	0.10	-0.09
Body	LTE Band12	23130	711	1RB-Low	Right Edge	10mm	Fig.A12	24.29	25.00	0.300	0.412	0.35	0.49	-0.19
Head	LTE Band13	23230	782	1RB-Middle	Left Cheek	0mm	Fig.A13	21.50	22.00	0.061	0.079	0.07	0.09	0.17
Body	LTE Band13	23230	782	1RB-Middle	Right Edge	10mm	Fig.A14	24.20	25.00	0.251	0.359	0.30	0.43	0.14
Head	LTE Band25	26590	1905	1RB-Low	Right Tilt	0mm	Fig.A15	16.50	17.00	0.328	0.675	0.37	0.76	-0.04
Body	LTE Band25	26590	1905	1RB-Middle	Front	17mm	Fig.A16	24.06	25.00	0.250	0.408	0.31	0.51	-0.06
Head	LTE Band26	26775	822.5	1RB-Low	Right Cheek	0mm	Fig.A17	23.50	25.00	0.122	0.161	0.17	0.23	0.15
Body	LTE Band26	26965	841.5	1RB-Low	Right Edge	10mm	Fig.A18	24.12	25.00	0.154	0.221	0.19	0.27	-0.09
Head	LTE Band41 pc3	41055	2636.5	1RB-Low	Right Cheek	0mm	Fig.A19	14.37	15.00	0.111	0.260	0.13	0.30	-0.08
Body	LTE Band41 pc3	40185	2549.5	1RB-Middle	Left Edge	18mm	Fig.A20	24.03	25.00	0.323	0.615	0.40	0.77	-0.10
Head	LTE Band41 pc2	41055	2636.5	50RB-Middle	Right Cheek	0mm	Fig.A21	15.92	16.50	0.098	0.231	0.11	0.26	0.13
Body	LTE Band41 pc2	41055	2636.5	50RB-Low	Left Edge	18mm	Fig.A22	26.26	26.50	0.297	0.572	0.31	0.60	0.11
Head	LTE Band66	132072	1720	1RB-Middle	Right Tilt	0mm	Fig.A23	16.05	17.00	0.210	0.402	0.26	0.50	0.03
Body	LTE Band66	132072	1720	1RB-Low	Front	17mm	Fig.A24	24.08	25.00	0.175	0.275	0.22	0.34	-0.06
Head	LTE Band71	133222	673	1RB-Low	Left Cheek	0mm	Fig.A25	21.39	22.00	0.077	0.089	0.09	0.10	0.20
Body	LTE Band71	133372	688	1RB-Low	Right Edge	10mm	Fig.A26	24.20	25.00	0.288	0.41	0.35	0.49	-0.18
Head	LTE Band66 ANT0	132072	1720	1RB-Low	Right Cheek	0mm	Fig.A29	24.30	25.00	0.074	0.134	0.09	0.16	-0.09
Body	LTE Band66 ANT0	132072	1720	1RB-Low	Right Edge	10mm	Fig.A30	24.30	25.00	0.103	0.174	0.12	0.20	0.04

Frequency Band	Test Position	Channel Number	Frequency (MHz)	Phantom position	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
WLAN 2.4G	Head	6	2437	Left Cheek	11.92	12.00	0.158	0.16	0.083	0.08	0.15
WLAN 2.4G	Head	11	2462	Top Edge 10mm	16.44	16.50	0.241	0.24	0.127	0.13	-0.19
WLAN 5G	Body	155	5775	Left Cheek	10.56	11.00	0.122	0.14	0.036	0.04	0.18
WLAN 5G	Body	165	5825	Right Edge 10mm	16.46	16.50	0.405	0.41	0.148	0.15	0.15
BT	Head	78	2480	Left Cheek	9.63	10	<0.01	<0.01	<0.01	<0.01	\
BT	Body	78	2480	Top Edge 10mm	9.63	10	<0.01	<0.01	<0.01	<0.01	\

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Tune up (dBm)	EUT Measured Power (dBm)	Measured SAR 10g (W/kg)	Measured SAR 1g (W/kg)	Calculated SAR 10g (W/kg)	Calculated SAR 1g (W/kg)	Power Drift	Figure No./Note
Head	n25	376500	1882.5	DFT-s-OFDM QPSK	Right Tilt	17.50	16.03	0.301	0.480	0.42	0.67	-0.12	Fig.A35
Body	n25	376500	1882.5	DFT-s-OFDM QPSK	Front 17mm	25.50	24.70	0.203	0.301	0.24	0.36	0.12	Fig.A36
Head	n66	344000	1720	DFT-s-OFDM QPSK	Right Cheek	17.50	16.81	0.199	0.401	0.23	0.47	-0.15	Fig.A37
Body	n66	349000	1745	DFT-s-OFDM QPSK	Front 17mm	25.50	24.95	0.146	0.232	0.17	0.26	-0.12	Fig.A38
Head	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Cheek	25.50	24.60	0.159	0.184	0.20	0.23	-0.09	Fig.A39
Body	n71	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Edge 10mm	25.50	24.60	0.260	0.370	0.32	0.46	0.16	Fig.A40
Head	n41 pc2	518598	2592.99	DFT-s-OFDM QPSK	Right Cheek	17.50	16.95	0.277	0.700	0.31	0.79	0.15	Fig.A41
Body	n41 pc2	518598	2592.99	DFT-s-OFDM PI/2 BPSK1	Left Edge 17mm	27.50	26.90	0.275	0.523	0.32	0.60	0.17	Fig.A42
Head	n77 pc2	633334	3500.01	DFT-s-OFDM QPSK	Left Tilt	18.00	16.55	0.210	0.553	0.29	0.77	0.07	Fig.A45
Body	n77 pc2	633334	3500.01	DFT-s-OFDM QPSK	Top Edge 21mm	28.00	27.19	0.332	0.630	0.40	0.76	0.18	Fig.A46
Head	n77 pc2	654267	3814.000	DFT-s-OFDM QPSK	Left Tilt	18.00	17.80	0.342	0.981	0.36	1.03	0.19	Fig.A49
Body	n77 pc2	650800	3762.000	DFT-s-OFDM QPSK	Top Edge 21mm	28.00	27.80	0.401	0.843	0.42	0.88	0.18	Fig.A50

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Left Cheek	0mm	\	13.71	15.00	0.106	0.14	0.056	0.08	-0.14
Head	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Left Tilt	0mm	\	13.71	15.00	0.037	0.05	0.020	0.03	0.01
Head	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Right Cheek	0mm	Fig.A43	13.71	15.00	0.394	0.53	0.171	0.23	0.01
Head	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Right Tilt	0mm	\	13.71	15.00	0.084	0.11	0.043	0.06	0.20
Head	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Right Cheek	0mm	EUT2	13.71	15.00	0.383	0.52	0.163	0.22	0.04
Body	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Front	10mm	\	13.71	15.00	0.281	0.38	0.147	0.20	0.01
Body	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Rear	10mm	\	13.71	15.00	0.435	0.59	0.213	0.29	0.15
Body	n41 pc3	509406	2455.02	DFT-s-OFDM QPSK	Left Edge	10mm	\	13.71	15.00	0.563	0.76	0.280	0.38	-0.05
Body	n41 pc3	527799	2639	DFT-s-OFDM QPSK	Front	17mm	\	23.80	25.00	0.402	0.53	0.226	0.30	0.18
Body	n41 pc3	527799	2639	DFT-s-OFDM QPSK	Rear	21mm	\	23.80	25.00	0.314	0.41	0.220	0.29	-0.04
Body	n41 pc3	527799	2639	DFT-s-OFDM QPSK	Left Edge	17mm	Fig.A44	23.80	25.00	0.570	0.75	0.365	0.48	-0.02
Body	n41 pc3	527799	2639	DFT-s-OFDM QPSK	Left Edge	17mm	EUT2	23.80	25.00	0.559	0.74	0.343	0.45	-0.09
Head	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Left Cheek	0mm	\	13.58	15.00	0.380	0.53	0.195	0.27	0.15
Head	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Left Tilt	0mm	Fig.A47	13.58	15.00	0.541	0.75	0.331	0.46	-0.06
Head	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Right Cheek	0mm	\	13.58	15.00	0.145	0.20	0.085	0.12	-0.06
Head	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Right Tilt	0mm	\	13.58	15.00	0.197	0.27	0.095	0.13	-0.20
Head	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Left Tilt	0mm	EUT2	13.58	15.00	0.529	0.73	0.370	0.51	0.01
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Front	10mm	\	13.58	15.00	0.067	0.09	0.030	0.04	0.07
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Rear	10mm	\	13.58	15.00	0.117	0.16	0.052	0.07	-0.18
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Right Edge	10mm	\	13.58	15.00	0.031	0.04	0.015	0.02	0.06
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Top Edge	10mm	\	13.58	15.00	0.171	0.24	0.075	0.10	0.19
Body	n77 pc3	633334	3500.01	DFT-s-OFDM QPSK	Front	17mm	\	23.40	25.00	0.237	0.34	0.118	0.17	-0.17
Body	n77 pc3	633334	3500.01	DFT-s-OFDM QPSK	Rear	21mm	\	23.40	25.00	0.332	0.48	0.168	0.24	0.02
Body	n77 pc3	633334	3500.01	DFT-s-OFDM QPSK	Right Edge	17mm	\	23.40	25.00	0.133	0.19	0.072	0.10	0.10
Body	n77 pc3	633334	3500.01	DFT-s-OFDM QPSK	Top Edge	21mm	Fig.A48	23.40	25.00	0.475	0.69	0.235	0.34	-0.09
Body	n77 pc3	633334	3500.01	DFT-s-OFDM QPSK	Top Edge	21mm	EUT2	23.40	25.00	0.450	0.65	0.214	0.31	-0.10
Head	n77 pc3	647334	3710.010	DFT-s-OFDM QPSK	Left Cheek	0mm	\	13.79	15.00	0.491	0.65	0.185	0.24	-0.14
Head	n77 pc3	647334	3710.010	DFT-s-OFDM QPSK	Left Tilt	0mm	Fig.A51	13.79	15.00	0.601	0.79	0.216	0.29	-0.10
Head	n77 pc3	647334	3710.010	DFT-s-OFDM QPSK	Right Cheek	0mm	\	13.79	15.00	0.226	0.30	0.084	0.11	0.20
Head	n77 pc3	647334	3710.010	DFT-s-OFDM QPSK	Right Tilt	0mm	\	13.79	15.00	0.300	0.40	0.109	0.14	-0.12
Head	n77 pc3	647334	3710.010	DFT-s-OFDM QPSK	Left Tilt	0mm	EUT2	13.79	15.00	0.584	0.77	0.193	0.26	0.14
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Front	10mm	\	13.79	15.00	0.116	0.15	0.049	0.06	0.12
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Rear	10mm	\	13.79	15.00	0.142	0.19	0.061	0.08	0.02
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Right Edge	10mm	\	13.79	15.00	0.034	0.05	0.018	0.02	0.10
Body	n77 pc3	636000	3540	DFT-s-OFDM QPSK	Top Edge	10mm	\	13.79	15.00	0.224	0.30	0.093	0.12	-0.13
Body	n77 pc3	650800	3762.000	DFT-s-OFDM QPSK	Front	17mm	\	23.96	25.00	0.430	0.55	0.201	0.26	0.03
Body	n77 pc3	650800	3762.000	DFT-s-OFDM QPSK	Rear	21mm	\	23.96	25.00	0.424	0.54	0.211	0.27	0.20
Body	n77 pc3	650800	3762.000	DFT-s-OFDM QPSK	Right Edge	17mm	\	23.96	25.00	0.177	0.22	0.095	0.12	-0.04
Body	n77 pc3	650800	3762.000	DFT-s-OFDM QPSK	Top Edge	21mm	Fig.A52	23.96	25.00	0.560	0.71	0.322	0.41	-0.06
Body	n77 pc3	650800	3762.000	DFT-s-OFDM QPSK	Top Edge	21mm	EUT2	23.96	25.00	0.541	0.69	0.302	0.38	-0.15
Head	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Left Cheek	0mm	\	21.99	22.50	0.193	0.22	0.143	0.16	0.12
Head	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Left Tilt	0mm	\	21.99	22.50	0.101	0.11	0.079	0.09	-0.07
Head	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Cheek	0mm	Fig.A53	21.99	22.50	0.210	0.24	0.161	0.18	0.19
Head	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Tilt	0mm	\	21.99	22.50	0.112	0.13	0.088	0.10	-0.10
Head	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Cheek	0mm	EUT2	21.99	22.50	0.200	0.22	0.148	0.17	0.14
Body	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Front	0mm	\	24.86	25.50	0.257	0.30	0.195	0.23	-0.07
Body	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Rear	0mm	\	24.86	25.50	0.345	0.40	0.222	0.26	-0.09
Body	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Left Edge	0mm	\	24.86	25.50	0.239	0.28	0.167	0.19	0.12
Body	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Edge	0mm	Fig.A54	24.86	25.50	0.427	0.49	0.300	0.35	0.19
Body	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Bottom Edge	0mm	\	24.86	25.50	0.274	0.32	0.133	0.15	-0.05
Body	n5	136100	680.5	DFT-s-OFDM PI/2 BPSK1	Right Edge	0mm	EUT2	25.09	25.50	0.401	0.44	0.274	0.30	-0.18

ENDC	Left Cheek 1g (W/kg)	Left Tilt 1g (W/kg)	Right Cheek 1g (W/kg)	Right Tilt 1g (W/kg)	Front 10mm 1g (W/kg)	Rear 10mm 1g (W/kg)	Left Edge 10mm 1g (W/kg)	Right Edge 10mm 1g (W/kg)	Bottom Edge 10mm 1g (W/kg)	Top Edge 10mm 1g (W/kg)
DC_12A_n2A	0.60	0.62	0.73	0.73	0.73	0.68	0.37	0.51	0.06	0.33
DC_13A_n2A	0.63	0.66	0.76	0.75	0.69	0.61	0.30	0.45	0.10	0.33
DC_5A_n2A	0.65	0.66	0.80	0.76	0.50	0.48	0.26	0.35	0.12	0.33
DC_66A_n2A	0.73	0.70	0.89	0.80	0.53	0.44	0.25	0.22	0.06	0.33
DC_2A_n5A	0.34	0.18	0.37	0.20	0.44	0.53	0.34	0.51	0.38	0.44
DC_66A_n5A	0.45	0.23	0.49	0.26	0.46	0.55	0.35	0.71	0.38	0.44
DC_66A_N41A	0.37	0.17	0.78	0.24	0.69	0.56	0.82	0.22	0.06	\
DC_12A_N41A	0.24	0.09	0.62	0.17	0.89	0.80	0.94	0.51	0.06	\
DC_12A-66A_n66A	0.42	0.42	0.57	0.53	0.63	0.57	0.34	0.51	0.06	0.24
DC_2A-(n)71AA	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.49	0.36	\
DC_2A-12A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.02	0.06	0.24
DC_12A-2A_n66A	0.42	0.42	0.57	0.53	0.63	0.57	0.34	0.51	0.06	0.24
DC_2A-13A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.02	0.06	0.24
DC_2A-2A_n41A	0.26	0.12	0.66	0.18	0.69	0.66	0.83	0.02	0.06	\
DC_2A-2A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.02	0.06	0.24
DC_2A-2A_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.49	0.36	\
DC_2A-5A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.02	0.06	0.24
DC_66A-2A_n25A	0.73	0.70	0.89	0.80	0.53	0.44	0.25	0.22	0.06	0.33
DC_2A-66A_n25A	0.62	0.65	0.77	0.74	0.51	0.42	0.24	0.02	0.06	0.33
DC_2A-66A_n66A	0.44	0.45	0.61	0.54	0.41	0.31	0.21	0.02	0.06	0.24
DC_66A-2A_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	\
DC_2A-66A_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.49	0.36	\
DC_2C_n41A	0.26	0.12	0.66	0.18	0.69	0.66	0.83	0.02	0.06	\
DC_2C_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.49	0.36	\
DC_66A-(n)71AA	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	\
DC_66A-66A_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	\
DC_66A-66A_n77A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	\
DC_66C_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	\
DC_2A-71A_n71A	0.33	0.18	0.36	0.19	0.42	0.51	0.32	0.49	0.36	\
DC_66A-12A_n25A	0.73	0.70	0.89	0.80	0.53	0.44	0.25	0.22	0.06	0.33
DC_12A-66A_n25A	0.60	0.62	0.73	0.73	0.73	0.68	0.37	0.51	0.06	0.33
DC_66A-71A_n71A	0.44	0.23	0.48	0.25	0.44	0.53	0.33	0.69	0.36	\

J.2 Conducted Output Power

No.	Test Freq Description	5G-n5 receiver on							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	22.50	21.60
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	22.50	21.85
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	22.50	21.99
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	22.50	21.72
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	22.50	21.74
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	22.50	21.92
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	22.50	21.86
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	22.50	21.64
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.50	21.39
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	22.50	21.29
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	22.50	21.72
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	22.50	21.87
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.50	21.88
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	22.50	21.64
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	22.50	21.75
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	22.50	21.78
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	22.50	21.91
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	22.50	21.14
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	22.50	21.83
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	22.50	21.69
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	22.50	21.91
22	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	844	168800	22.50	21.64
23	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	22.50	21.84
24	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	829	165800	22.50	21.92
25	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	841.5	168300	22.50	21.68
26	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	22.50	21.86
27	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	831.5	166300	22.50	21.91

No.	Test Freq Description	5G-n5 receiver off							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	25.50	24.65
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	25.50	24.77
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	25.50	24.75
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	25.50	24.83
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	25.50	24.84
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	25.50	24.86
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	25.50	24.82
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	25.50	24.58
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	23.00	22.91
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	22.00	21.31
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	25.50	23.85
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	23.50	23.38
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.00	21.94
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	19.00	18.89
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	25.50	23.54
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	25.50	23.54
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	25.50	23.64
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	25.50	23.56
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	25.50	24.43
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	25.50	24.59
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	25.50	23.66
22	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	844	168800	25.50	24.03
23	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	25.50	24.52
24	Low	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	829	165800	25.50	24.05
25	High	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	841.5	168300	25.50	24.18
26	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	25.50	24.46
27	Low	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	831.5	166300	25.50	24.09

J.3 Reported SAR Comparison

Mode		Antenna	Highest Reported SAR (1g)			
			Head SAR	Body-worn SAR	Head SAR Spot check	Body-worn SAR Spot check
GSM	GSM 850	0	0.32	0.71	0.30	0.68
	PCS 1900	2	0.34	0.40	0.46	0.43
WCDMA	UMTS FDD 2	2	0.96	0.58	0.94	0.65
	UMTS FDD 4	2	0.71	0.39	0.70	0.46
	UMTS FDD 5	0	0.42	0.62	0.45	0.59
LTE	LTE Band 2	0	0.13	0.18	0.11	0.16
	LTE Band 12	0	0.10	0.51	0.10	0.49
	LTE Band 13	0	0.13	0.45	0.09	0.43
	LTE Band 25	2	0.77	0.54	0.76	0.51
	LTE Band 26	0	0.16	0.35	0.23	0.27
	LTE Band 41 PC3	4	0.38	0.54	0.30	0.77
	LTE Band 41 PC2	4	0.31	0.45	0.26	0.60
	LTE Band 66	2	0.48	0.39	0.50	0.34
	LTE Band 66	0	0.25	0.22	0.16	0.20
	LTE Band 71	0	0.11	0.55	0.10	0.49
NR SA/NSA	N25	2	0.67	0.37	0.67	0.36
	N41PC2	4	0.73	0.23	0.79	0.60
	N41PC3	4	0.73	0.23	0.53	0.75
	N66	2	0.48	0.27	0.47	0.26
	N77 3450M-3550M PC2	5	0.61	0.60	0.77	0.76
	N77 3700M-3980M PC2	5	1.05	0.88	1.03	0.88
	N77 3450M-3550M PC3	5	0.61	0.60	0.75	0.69
	N77 3700M-3980M PC3	5	1.05	0.88	0.79	0.71
	N71	0	0.23	0.47	0.23	0.46
	N5	0	/	/	0.24	0.49
WLAN 2.4 GHz		9	0.20	0.25	0.16	0.24
WLAN 5 GHz		9	0.17	0.44	0.14	0.41
BT		9	<0.01	<0.01	<0.01	<0.01

Note: All the spot check results marked blue are larger than the original result. So it replace the original results and others are shared.

J.4 Graph Results of spot check

GSM850_CH251 Right Cheek
Date: 5/17/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 848.8 MHz; σ = 0.916 mho/m; εr = 40.82; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: GSM850 848.8 Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.326 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.077 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.335 W/kg
SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.191 W/kg
Maximum value of SAR (measured) = 0.254 W/kg

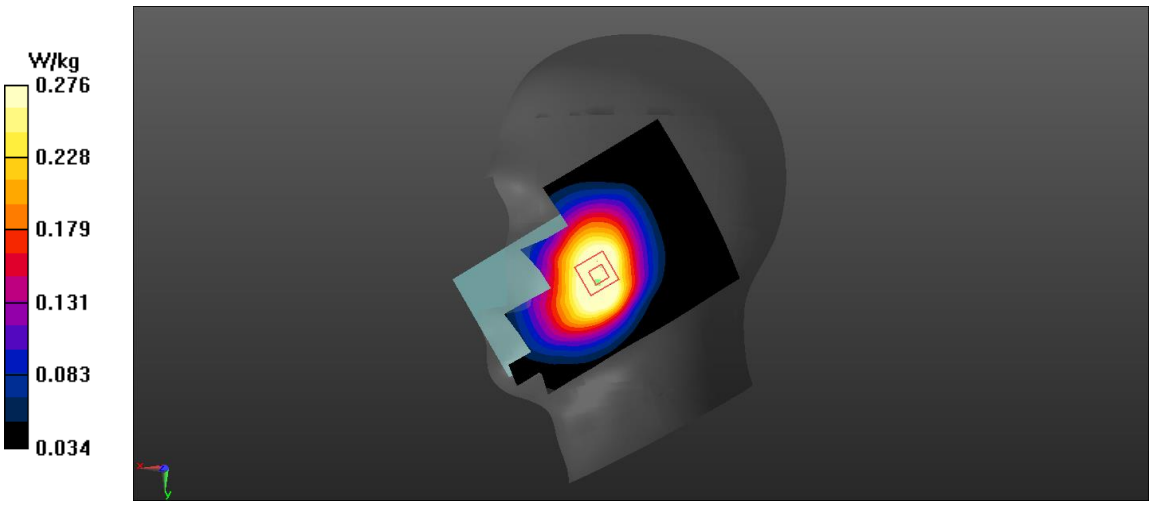


Fig A.1

GSM850_CH251 GPRS(2TX) Rear 10mm
Date: 5/17/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 848.8 MHz; σ = 0.899 mho/m; εr = 41.98; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: GSM850 848.8 Duty Cycle: 1:4
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.842 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.08 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.286 W/kg
Maximum value of SAR (measured) = 0.674 W/kg

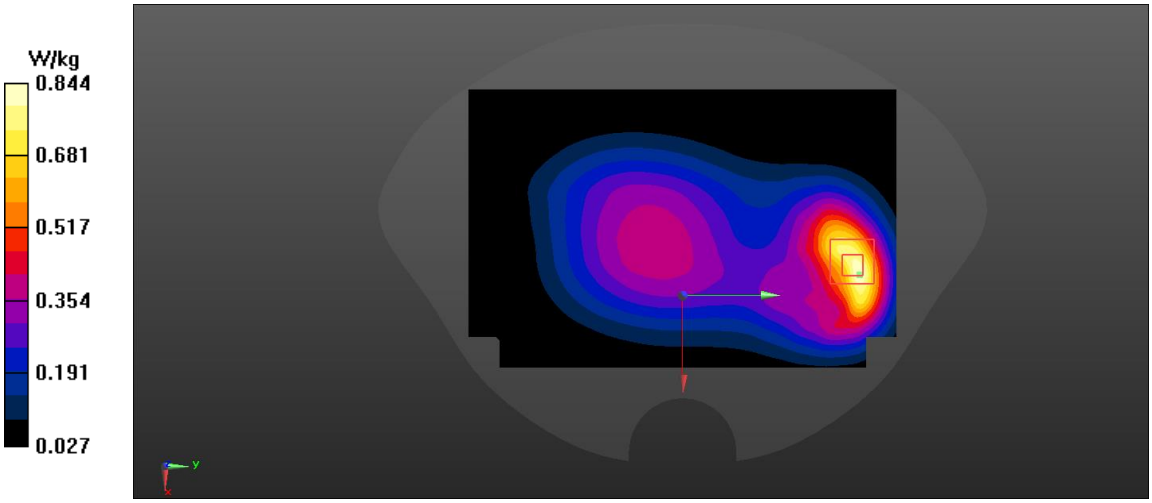


Fig A.2

PCS1900_CH810 Right Tilt
Date: 5/21/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1909.8 MHz; σ = 1.406 mho/m; εr = 39.43; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: PCS1900 1909.8 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.540 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.21 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.582 W/kg
SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.151 W/kg
Maximum value of SAR (measured) = 0.341 W/kg

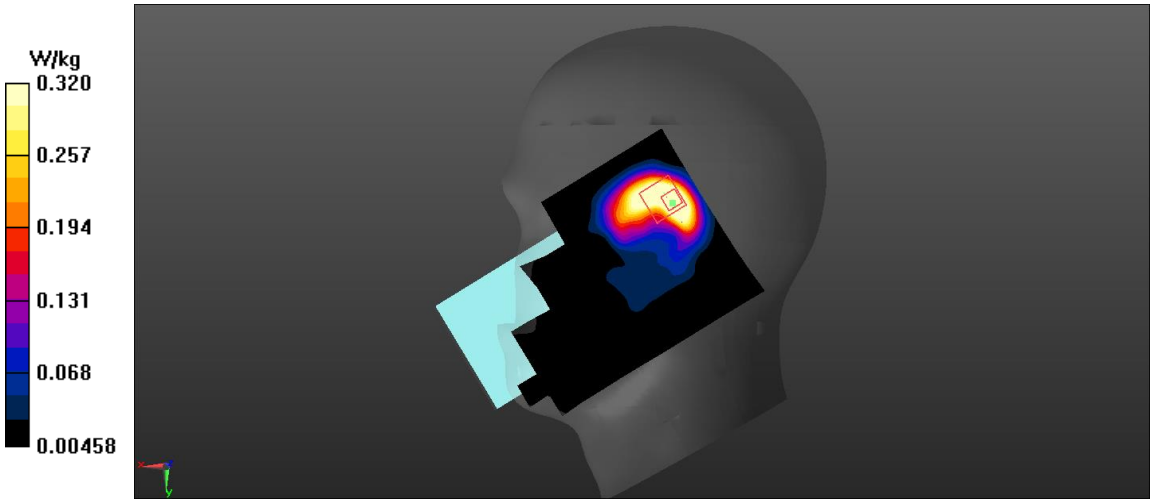


Fig A.3

PCS1900_CH810 GPRS(2TX) Front 17mm
Date: 5/21/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1909.8 MHz; σ = 1.402 mho/m; εr = 40.32; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: PCS1900 1909.8 Duty Cycle: 1:4
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.411 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.61 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.590 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.0789 W/kg
Maximum value of SAR (measured) = 0.473 W/kg

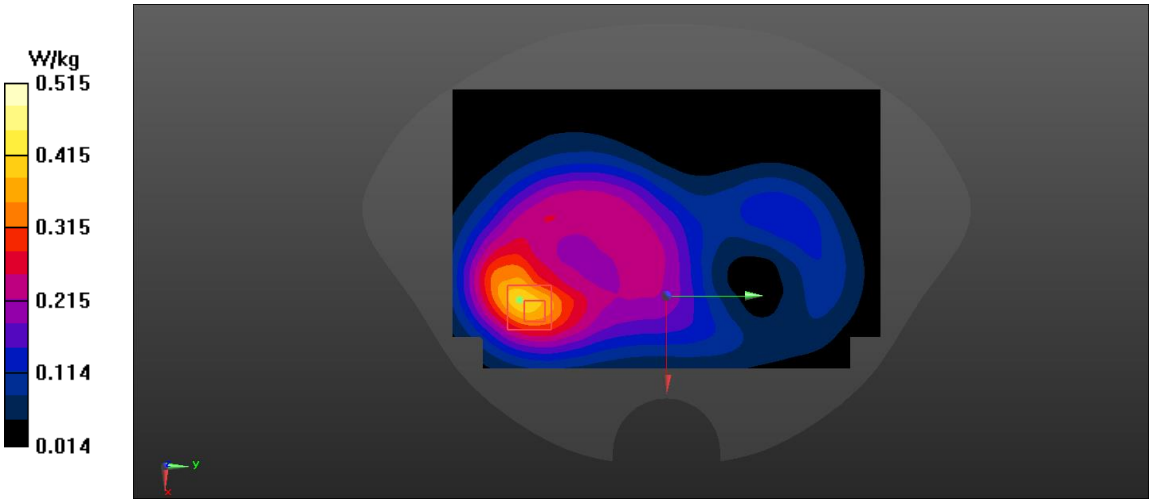


Fig A.4

WCDMA1900-BII_CH9538 RMC Right Tilt
Date: 5/21/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1907.6 MHz; σ = 1.405 mho/m; εr = 39.43; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1900-BII 1907.6 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.44 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.347 W/kg
Maximum value of SAR (measured) = 0.706 W/kg

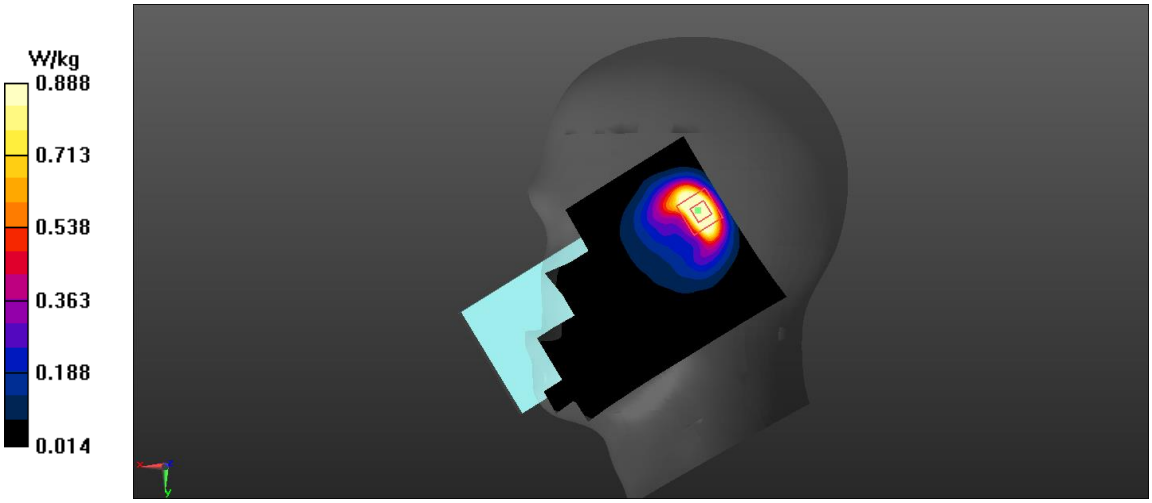


Fig A.5

WCDMA1900-BII_CH9400 RMC Front 17mm
Date: 5/21/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.373 mho/m; εr = 40.35; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1900-BII 1880 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.705 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.98 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.804 W/kg
SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.267 W/kg
Maximum value of SAR (measured) = 0.617 W/kg

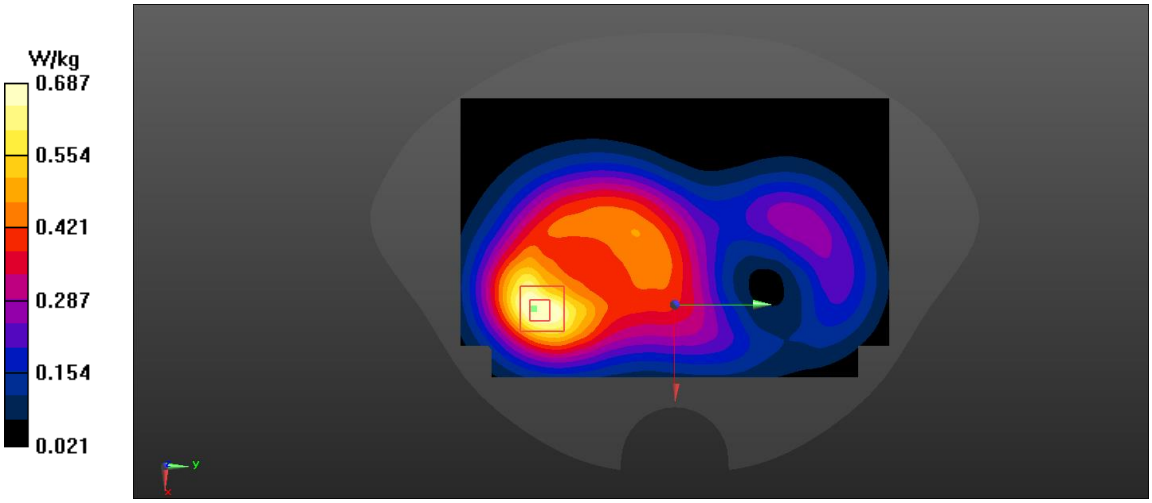


Fig A.6

WCDMA1700-BIV_CH1513 RMC Right Cheek
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1752.6 MHz; σ = 1.383 mho/m; εr = 40.1; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1700-BIV 1752.6 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.933 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.91 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.27 W/kg
Maximum value of SAR (measured) = 0.561 W/kg

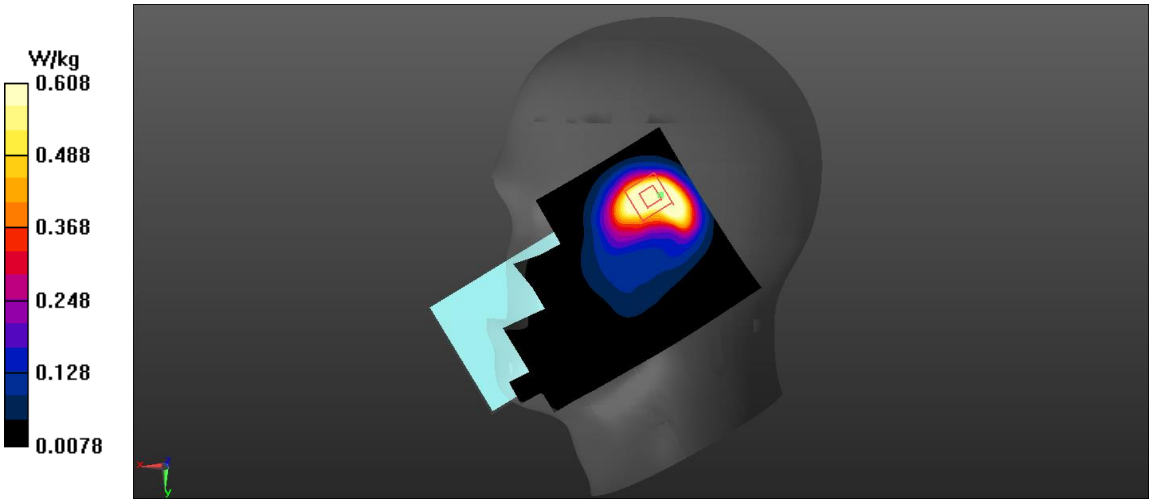


Fig A.7

WCDMA1700-BIV_CH1412 RMC Front 17mm
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1732.5 MHz; σ = 1.353 mho/m; εr = 40.04; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1700-BIV 1732.5 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.457 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.60 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.502 W/kg
SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.198 W/kg
Maximum value of SAR (measured) = 0.456 W/kg

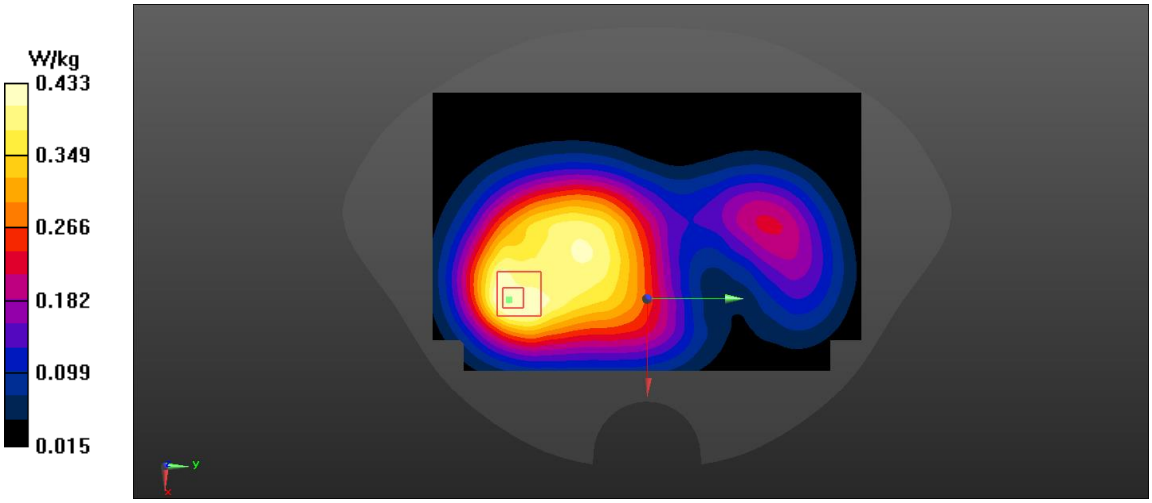


Fig A.8

WCDMA850-BV_CH4233 RMC Right Cheek
Date: 5/17/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 846.6 MHz; σ = 0.914 mho/m; εr = 40.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA850-BV 846.6 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.469 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.170 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.482 W/kg
SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.267 W/kg
Maximum value of SAR (measured) = 0.367 W/kg

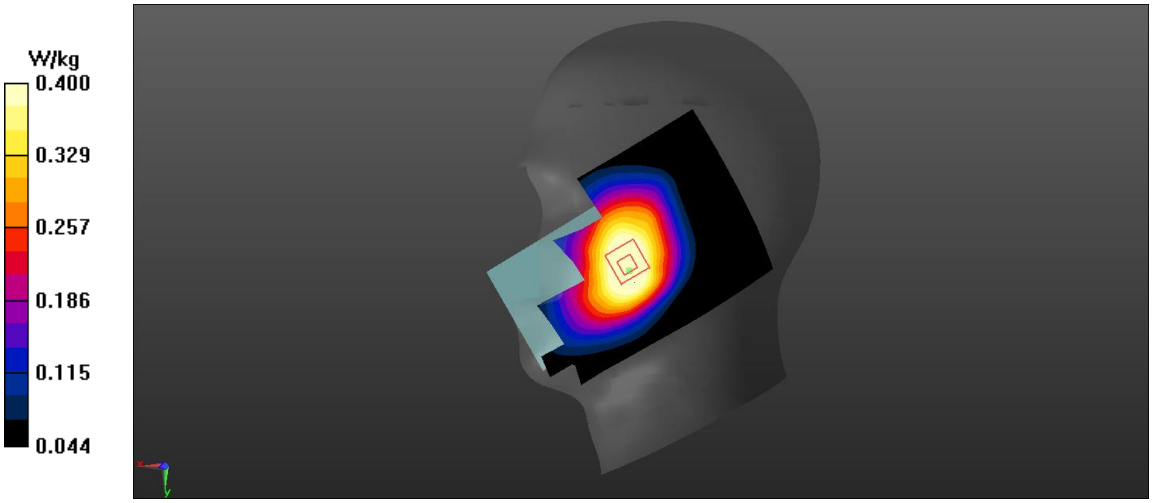


Fig A.9

WCDMA850-BV_CH4233 RMC Rear 10mm
Date: 5/17/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 846.6 MHz; σ = 0.897 mho/m; εr = 41.99; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA850-BV 846.6 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.800 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.75 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.850 W/kg

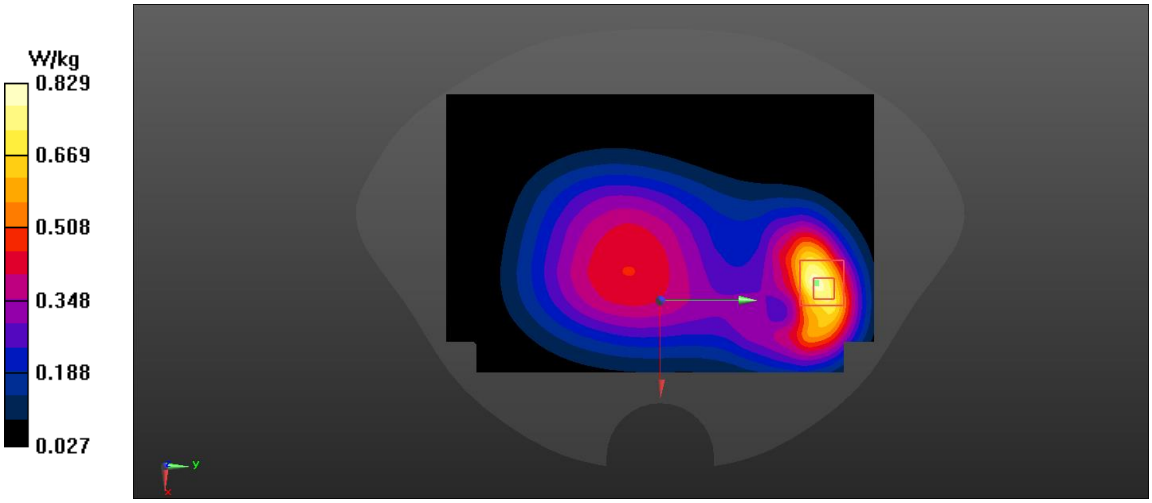


Fig A.10

LTE700-FDD12_CH23130 1RB-Low Left Cheek
Date: 5/15/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 711 MHz; σ = 0.86 mho/m; εr = 42.12; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.104 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.608 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.115 W/kg
SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.071 W/kg
Maximum value of SAR (measured) = 0.119 W/kg

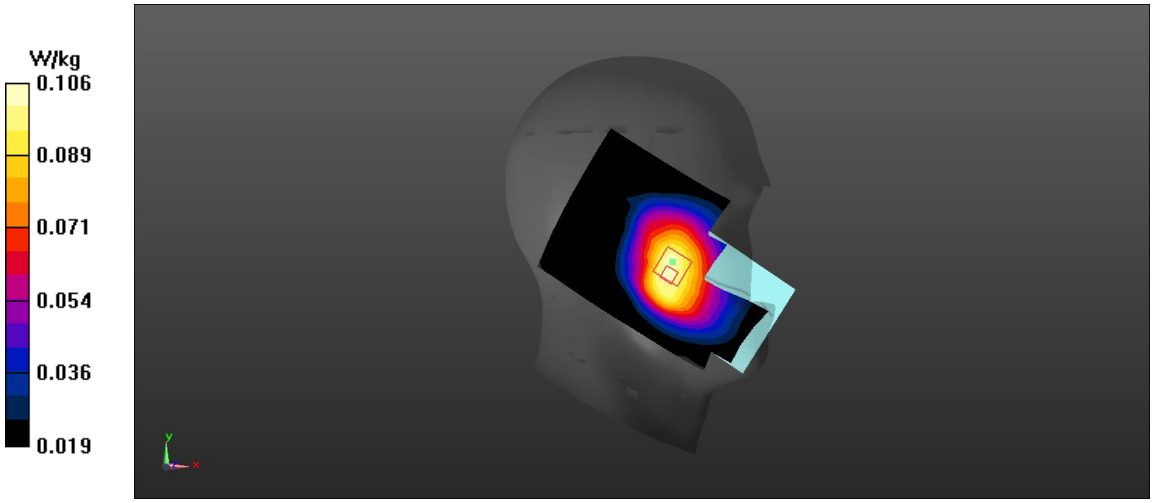


Fig A.11

LTE700-FDD12_CH23130 1RB-Low Right Edge 10mm
Date: 5/15/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 711 MHz; σ = 0.854 mho/m; εr = 41.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.243 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.56 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.276 W/kg
SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.3 W/kg
Maximum value of SAR (measured) = 0.274 W/kg

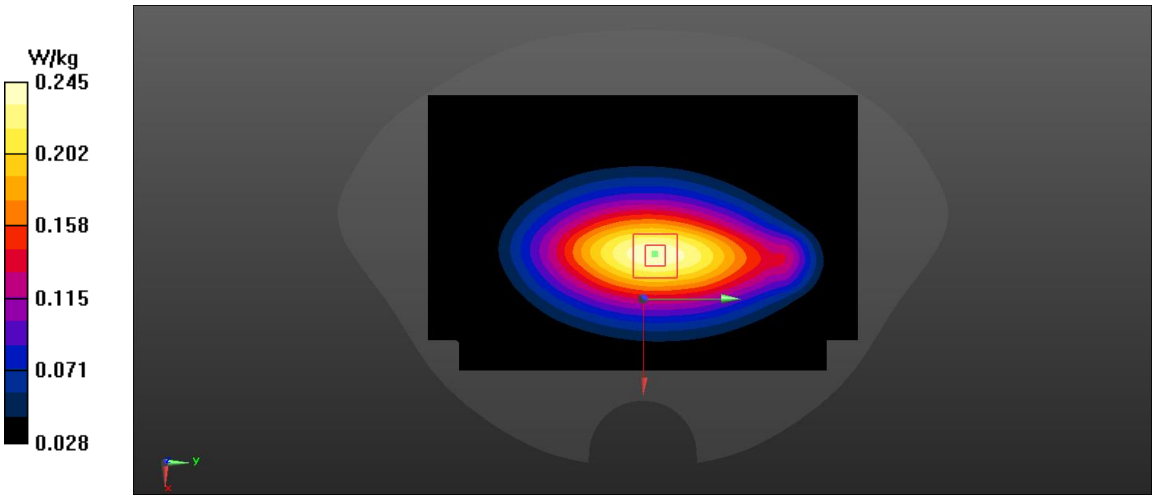


Fig A.12

LTE750-FDD13_CH23230 1RB-Middle Left Cheek
Date: 5/15/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.927 mho/m; εr = 42.03; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.129 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.725 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.142 W/kg
SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.061 W/kg
Maximum value of SAR (measured) = 0.102 W/kg

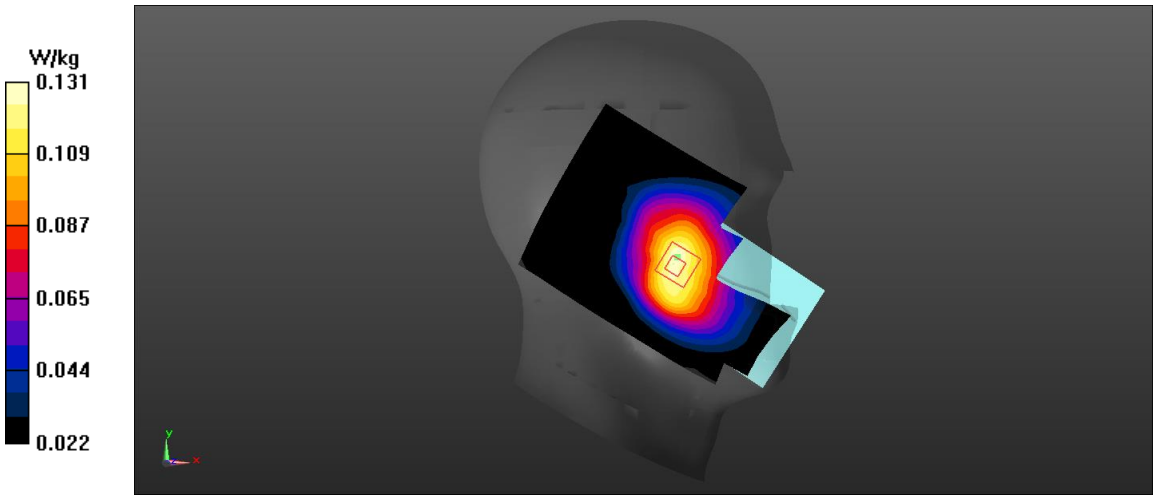


Fig A.13

LTE750-FDD13_CH23230 1RB-Middle Right Edge 10mm
Date: 5/15/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.921 mho/m; εr = 41.55; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.502 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.70 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.564 W/kg
SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.251 W/kg
Maximum value of SAR (measured) = 0.473 W/kg

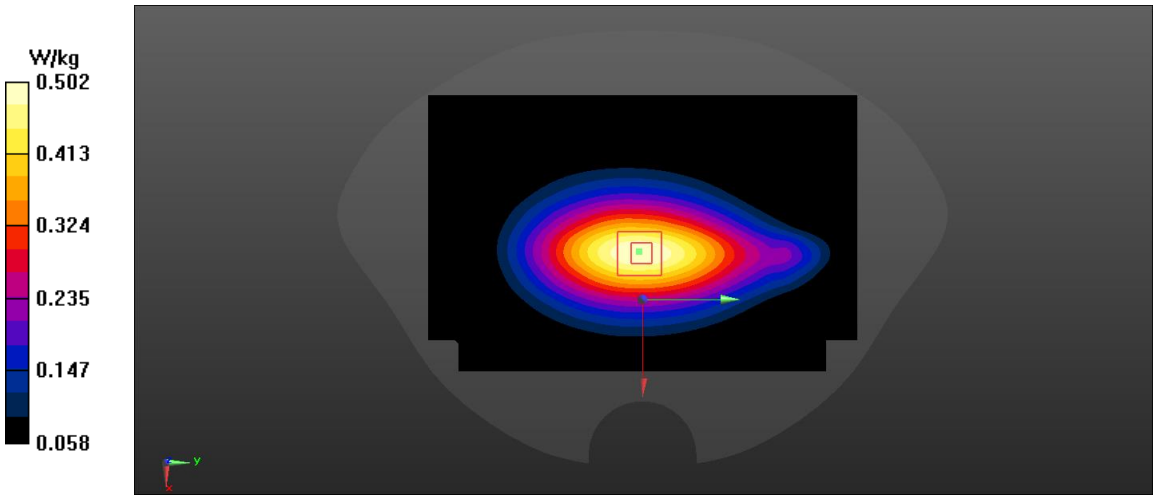


Fig A.14

LTE1900-FDD25_CH26590 1RB-Low Right Tilt
Date: 5/22/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; σ = 1.402 mho/m; εr = 39.43; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.33 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.42 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.328 W/kg
Maximum value of SAR (measured) = 0.774 W/kg

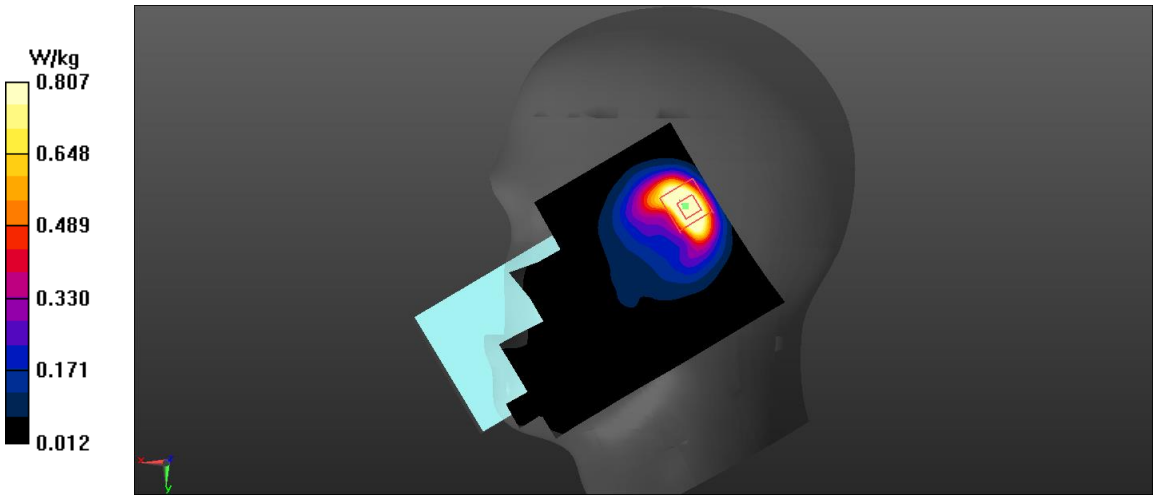


Fig A.15

LTE1900-FDD25_CH26590 1RB-Middle Front 17mm
Date: 5/22/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; σ = 1.397 mho/m; εr = 40.32; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.669 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.91 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.764 W/kg
SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.250 W/kg
Maximum value of SAR (measured) = 0.603 W/kg

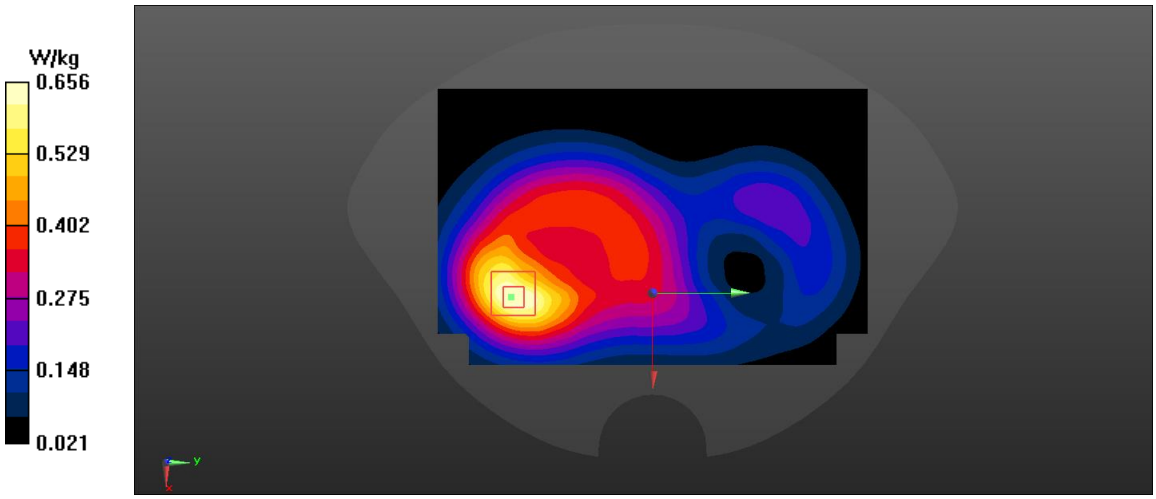


Fig A.16

LTE850-FDD26_CH26775 1RB-Low Right Cheek
Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 822.5 MHz; σ = 0.891 mho/m; εr = 40.86; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE850-FDD26 822.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.134 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.393 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.138 W/kg
SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.122 W/kg
Maximum value of SAR (measured) = 0.133 W/kg

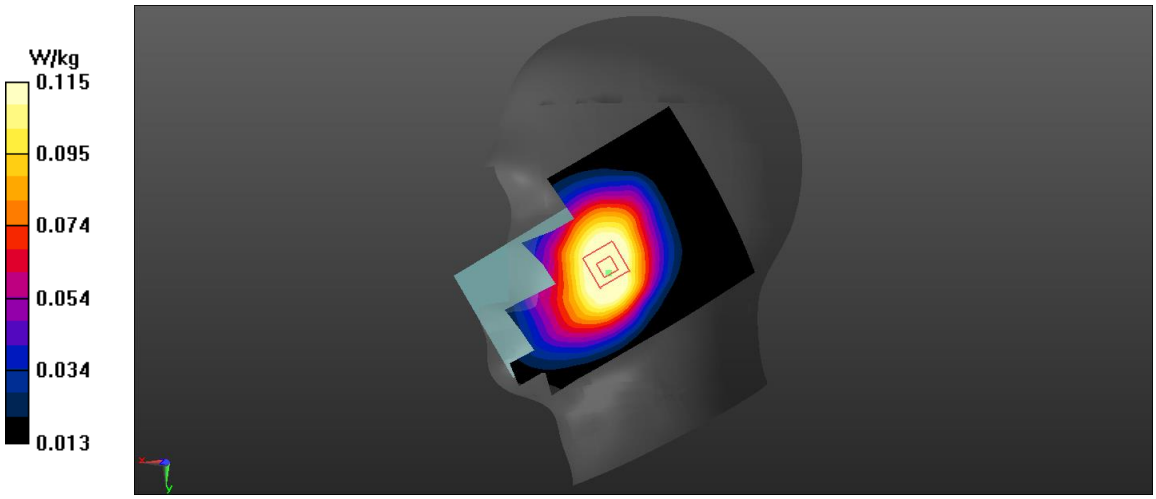


Fig A.17

LTE850-FDD26_CH26965 1RB-Low Right Edge 10mm
Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: head 835 MHz
Medium parameters used: f = 841.5 MHz; σ = 0.893 mho/m; εr = 41.99; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE850-FDD26 841.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.312 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.88 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.352 W/kg
SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.154 W/kg
Maximum value of SAR (measured) = 0.284 W/kg

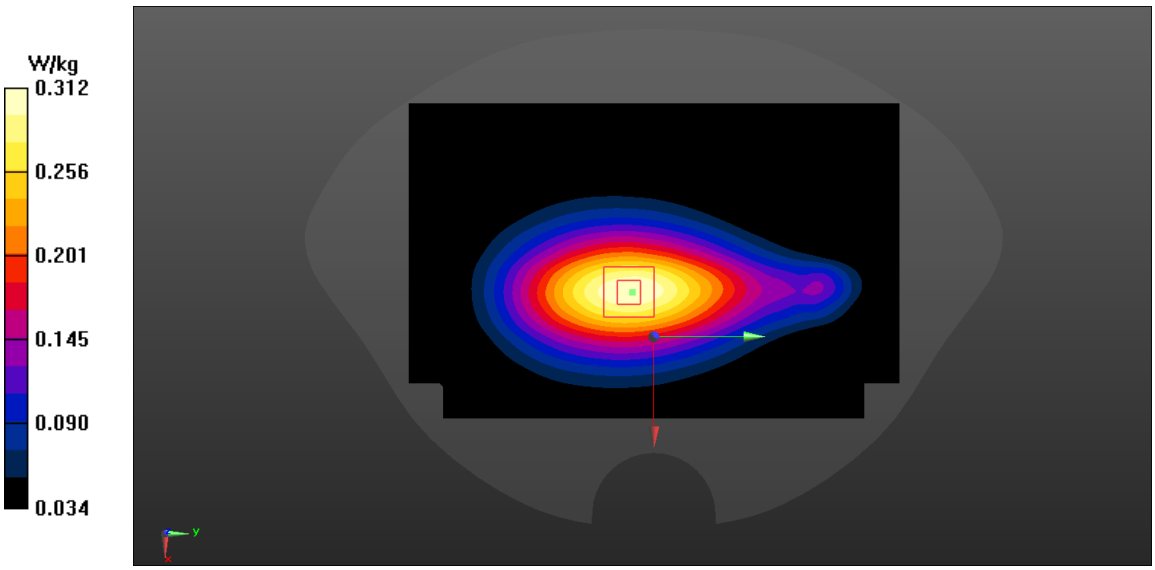


Fig A.18

LTE2600-TDD41 PC3_CH41055 1RB-Low Right Cheek
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2636.5 MHz; σ = 0.301 mho/m; εr = 41.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2636.5 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.736 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.675 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.921 W/kg
SAR(1 g) = 0.260 W/kg; SAR(10 g) = 0.111 W/kg
Maximum value of SAR (measured) = 0.301 W/kg

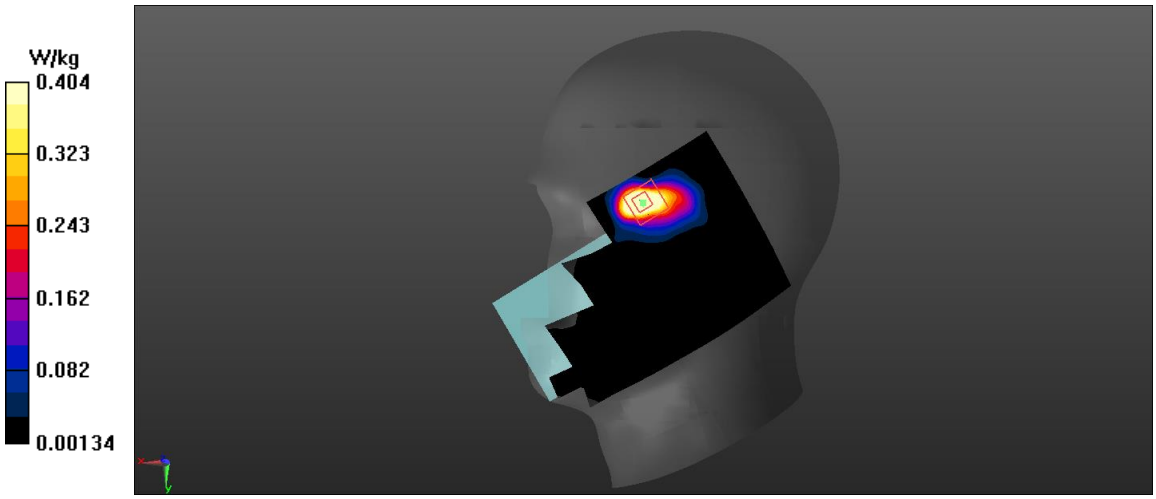


Fig A.19

LTE2600-TDD41 PC3_CH40185 1RB-Middle Left Edge 17mm
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2549.5 MHz; σ = 0.283 mho/m; εr = 40.52; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2549.5 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.765 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.299 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.916 W/kg
SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.323 W/kg
Maximum value of SAR (measured) = 0.791 W/kg

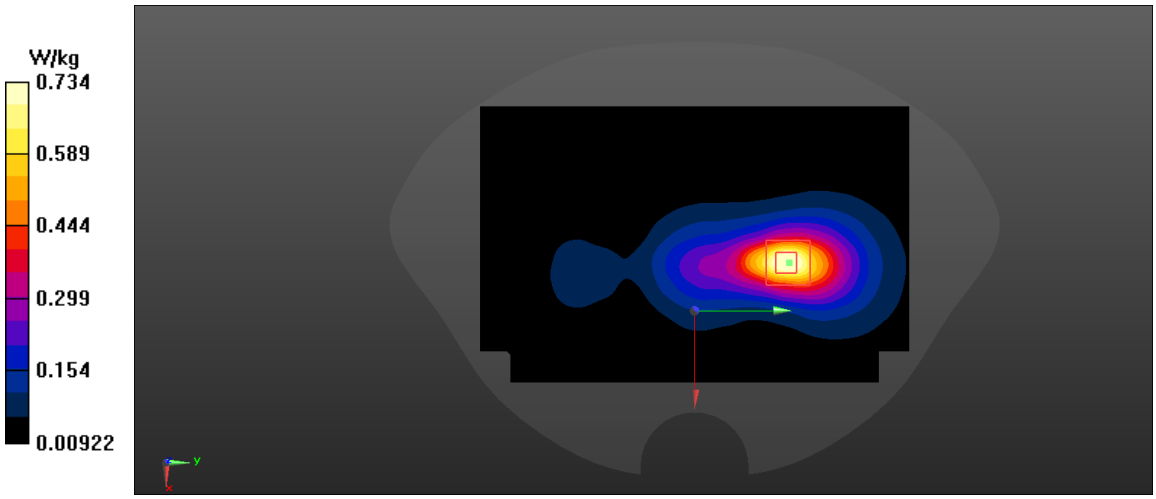


Fig A.20

LTE2600-TDD41 PC2_CH41055 50RB-Middle Right Cheek
Date: 5/24/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2636.5 MHz; σ = 0.301 mho/m; εr = 41.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2636.5 MHz Duty Cycle: 1:2.309
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.559 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.566 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.702 W/kg
SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.098 W/kg
Maximum value of SAR (measured) = 0.274 W/kg

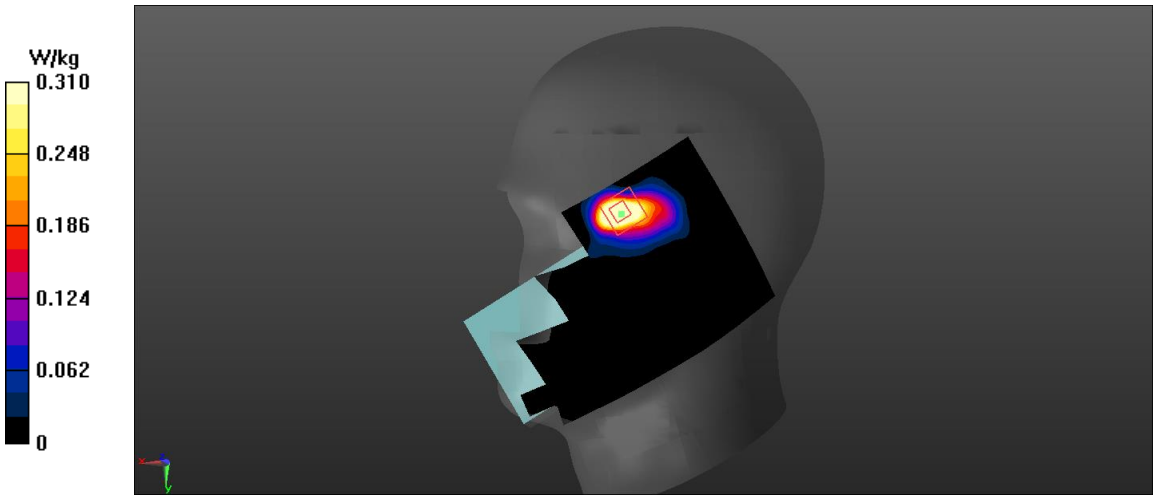


Fig A.21

LTE2600-TDD41 PC2_CH41055 50RB-Low Left Edge 17mm
Date: 5/24/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 2636.5 MHz; σ = 0.283 mho/m; εr = 40.52; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE2600-TDD41 2636.5 MHz Duty Cycle: 1:2.309
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.611 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.704 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.724 W/kg
SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.297 W/kg
Maximum value of SAR (measured) = 0.611 W/kg

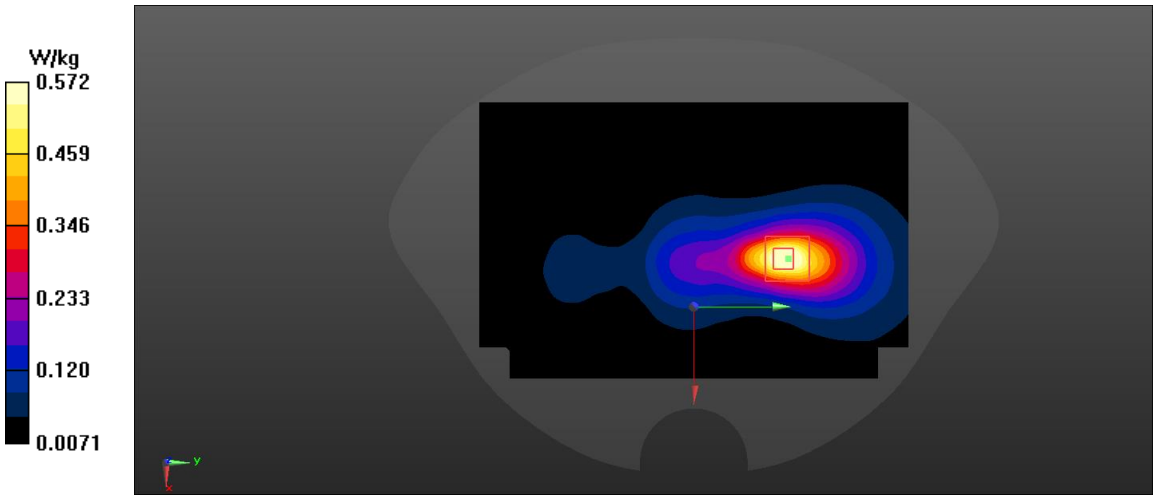


Fig A.22

LTE1700-FDD66_CH132072 1RB-Middle Right Tilt
Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; σ = 0.517 mho/m; εr = 41.19; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.770 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.87 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.822 W/kg
SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.21 W/kg
Maximum value of SAR (measured) = 0.417 W/kg

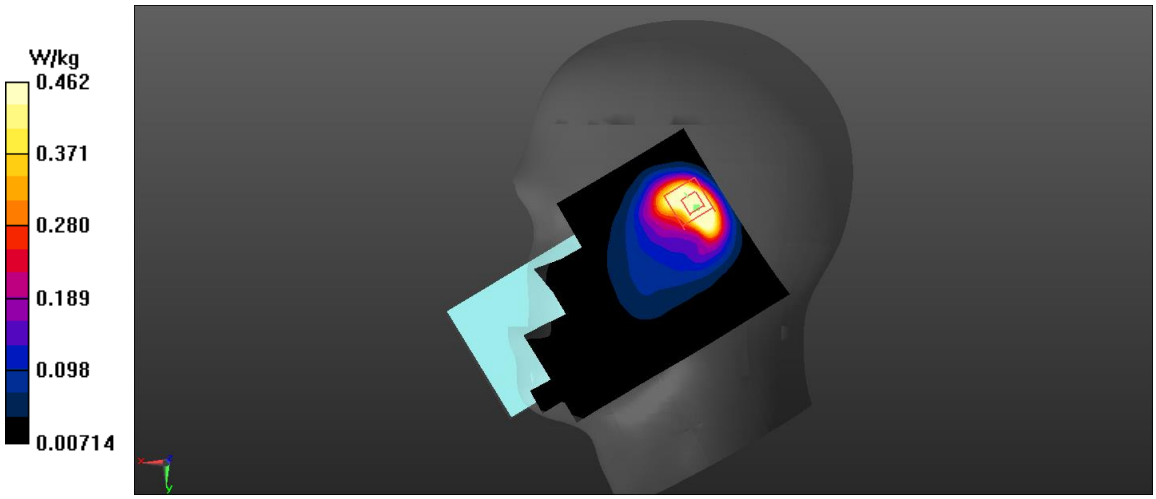


Fig A.23

LTE1700-FDD66_CH132072 1RB-Low Front 17mm
Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; σ = 0.507 mho/m; εr = 41.11; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.365 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.32 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.414 W/kg
SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.175 W/kg
Maximum value of SAR (measured) = 360 W/kg

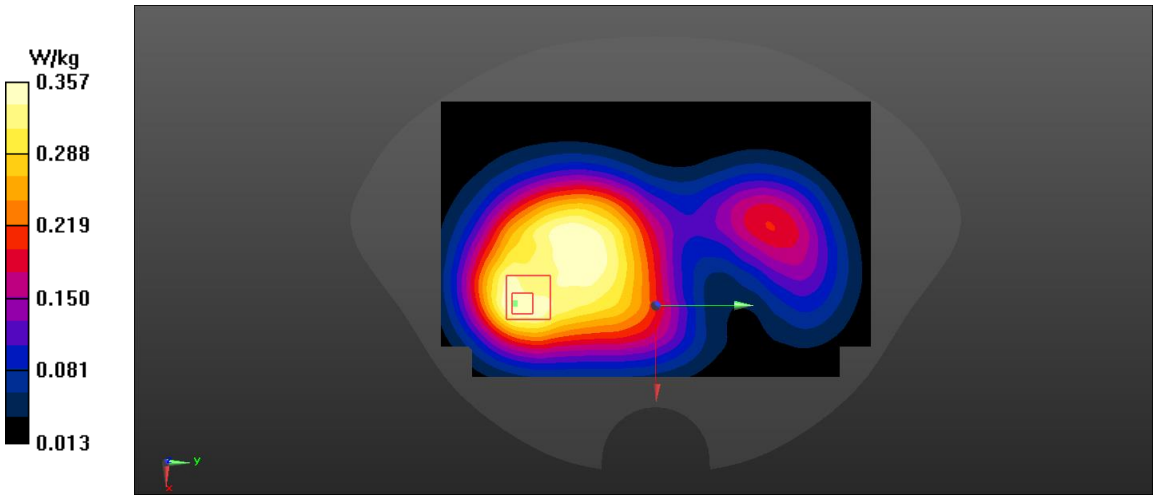


Fig A.24

LTE700-FDD71_CH133222 1RB-Low Left Cheek
Date: 5/16/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 673 MHz; σ = 0.984 mho/m; εr = 41.96; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD71 673 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.106 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.893 V/m; Power Drift = 0.2 dB
Peak SAR (extrapolated) = 0.117 W/kg
SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.077 W/kg
Maximum value of SAR (measured) = 0.102 W/kg

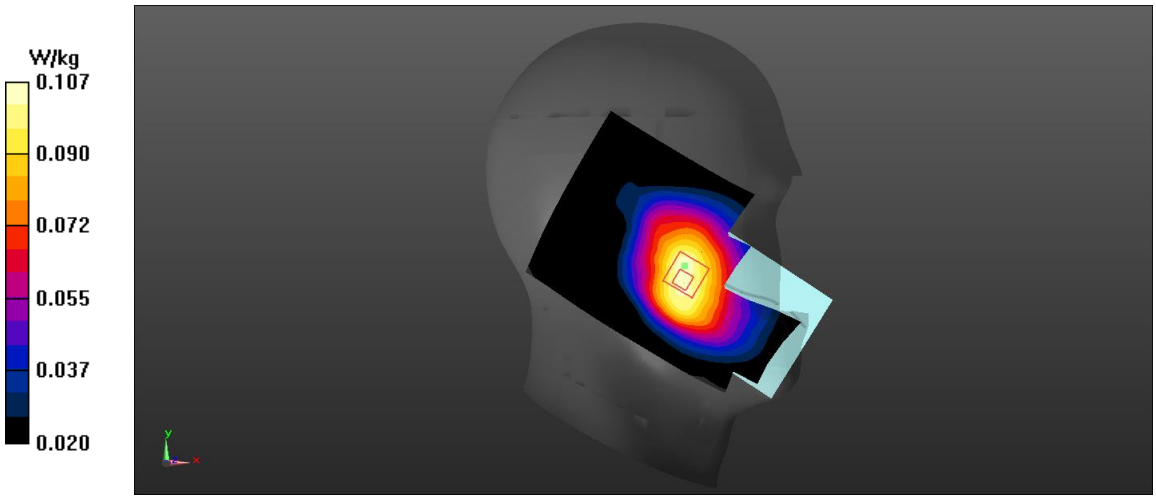


Fig A.25

LTE700-FDD71_CH133372 1RB-Low Right Edge 10mm
Date: 5/16/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 688 MHz; σ = 0.978 mho/m; εr = 41.48; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE700-FDD71 688 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.259 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.98 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.294 W/kg
SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.288 W/kg
Maximum value of SAR (measured) = 0.564 W/kg

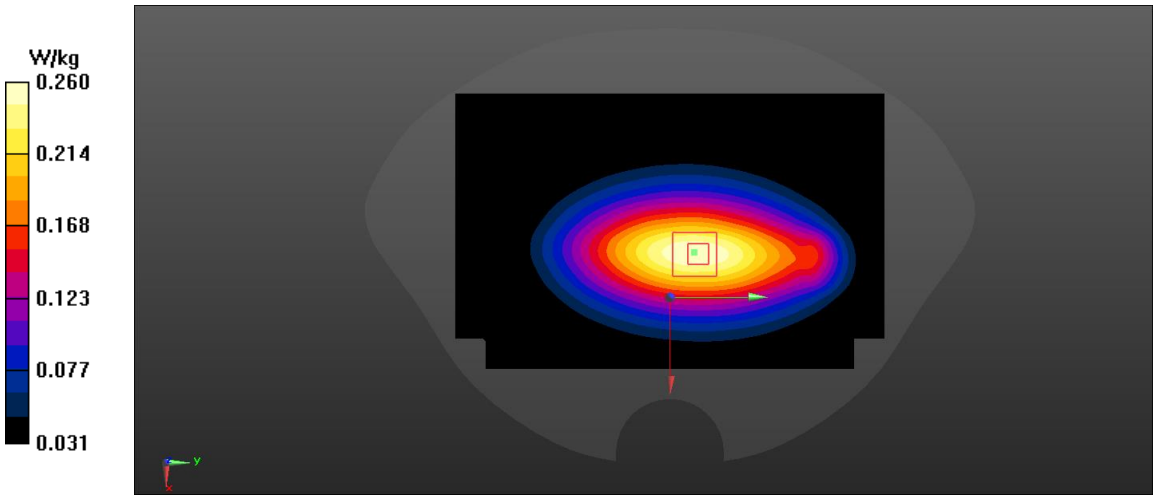


Fig A.26

LTE1900-FDD2_CH18900 Right Cheek 1RB-Low

Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.344 mho/m; εr = 39.09; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0548 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.657 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.063 W/kg
SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.154 W/kg

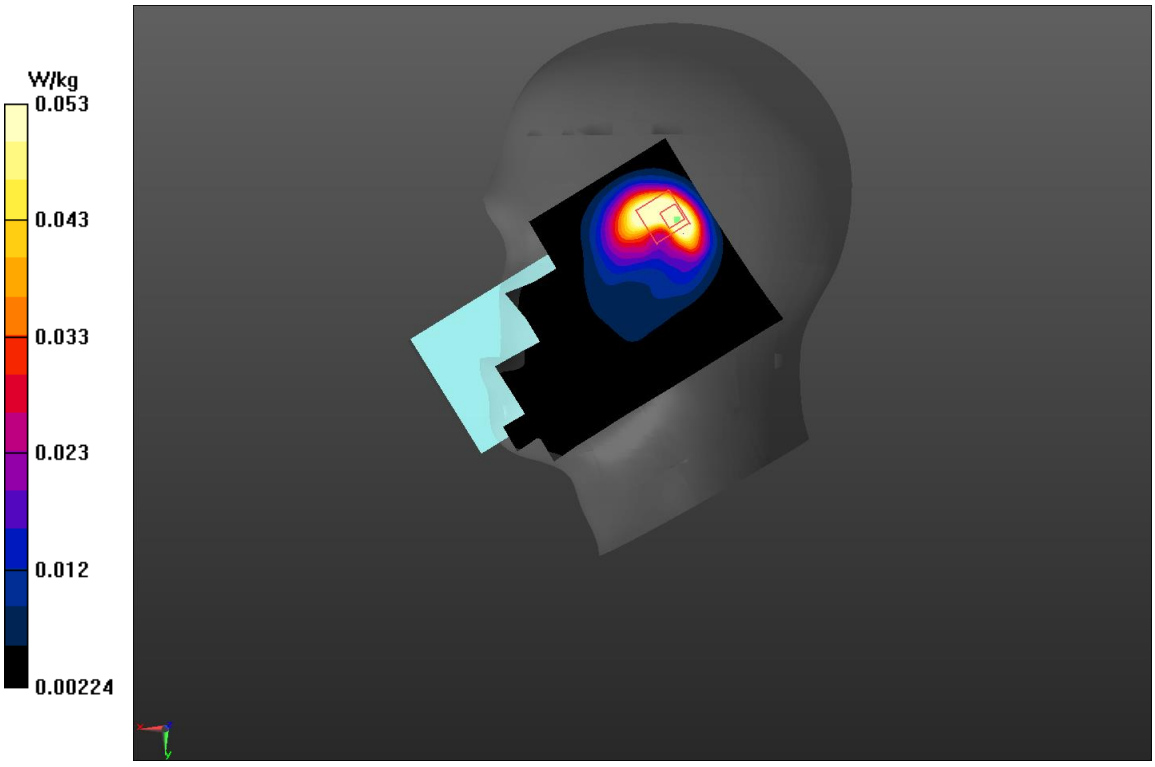


Fig A.27

LTE1900-FDD2_CH18900 Right Edge 10mm 1RB-Low
Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: body 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.512 mho/m; εr = 52.92; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0548 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.657 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.0630 W/kg
SAR(1 g) = 0.14 W/kg; SAR(10 g) = 0.086 W/kg
Maximum value of SAR (measured) = 0.213 W/kg

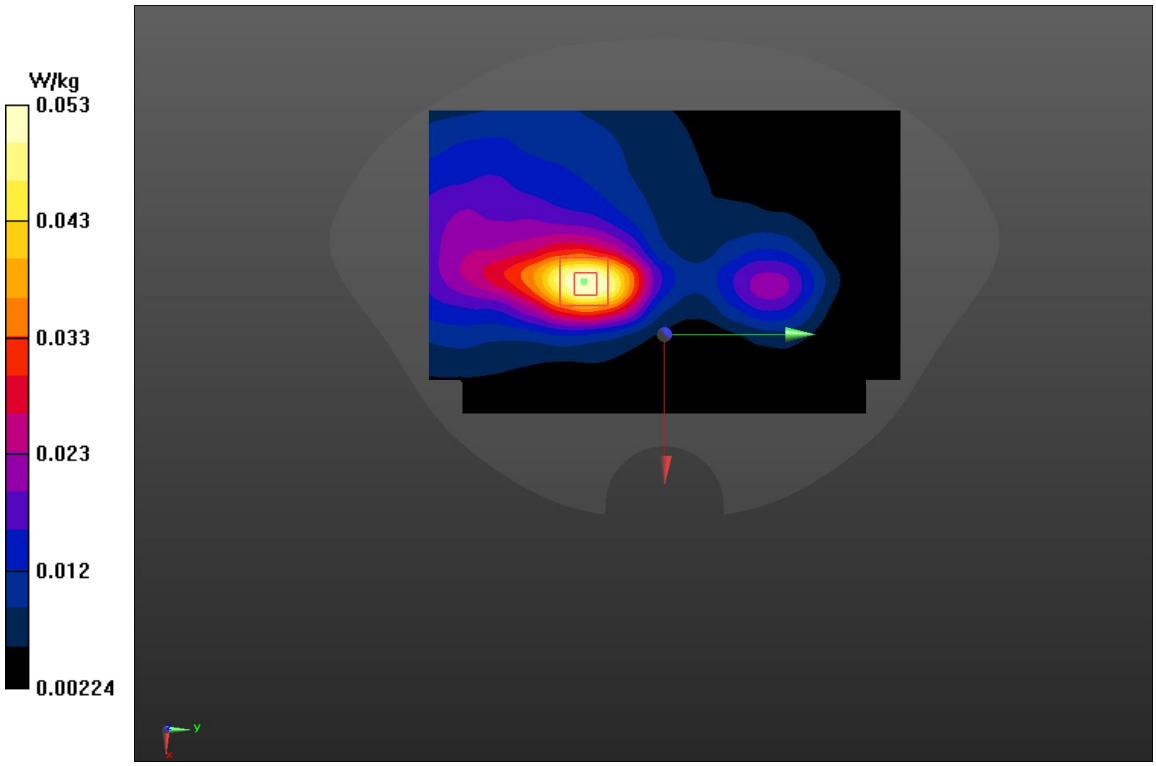


Fig A.28

LTE1700-FDD66_CH132322 Right Cheek 1RB-Low
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.534 mho/m; εr = 40.14; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1700-FDD66 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.754 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.12 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.933 W/kg
SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.074 W/kg
Maximum value of SAR (measured) = 0.245 W/kg

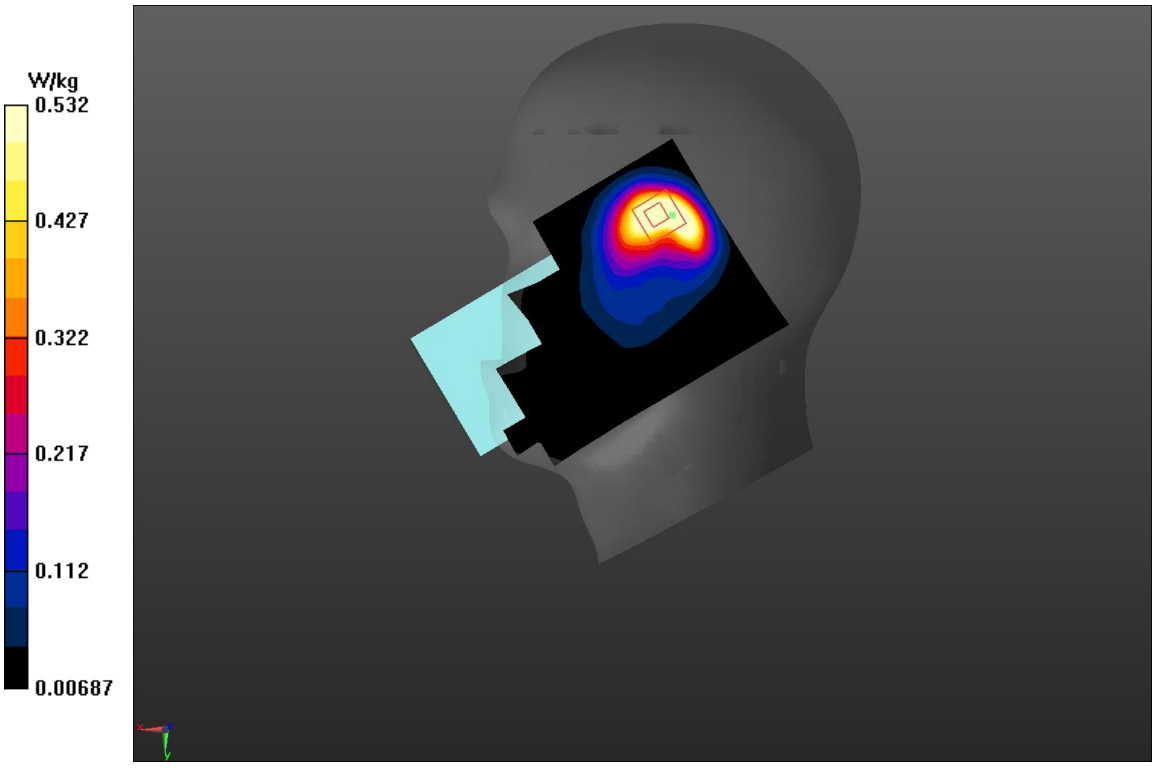


Fig A.29

LTE1700-FDD66_CH132072 Right Edge 10mm 1RB-Low
Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: body 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.623 mho/m; εr = 52.78; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: LTE1700-FDD66 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.277 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.945 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.316 W/kg
SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.103 W/kg
Maximum value of SAR (measured) = 0.243 W/kg

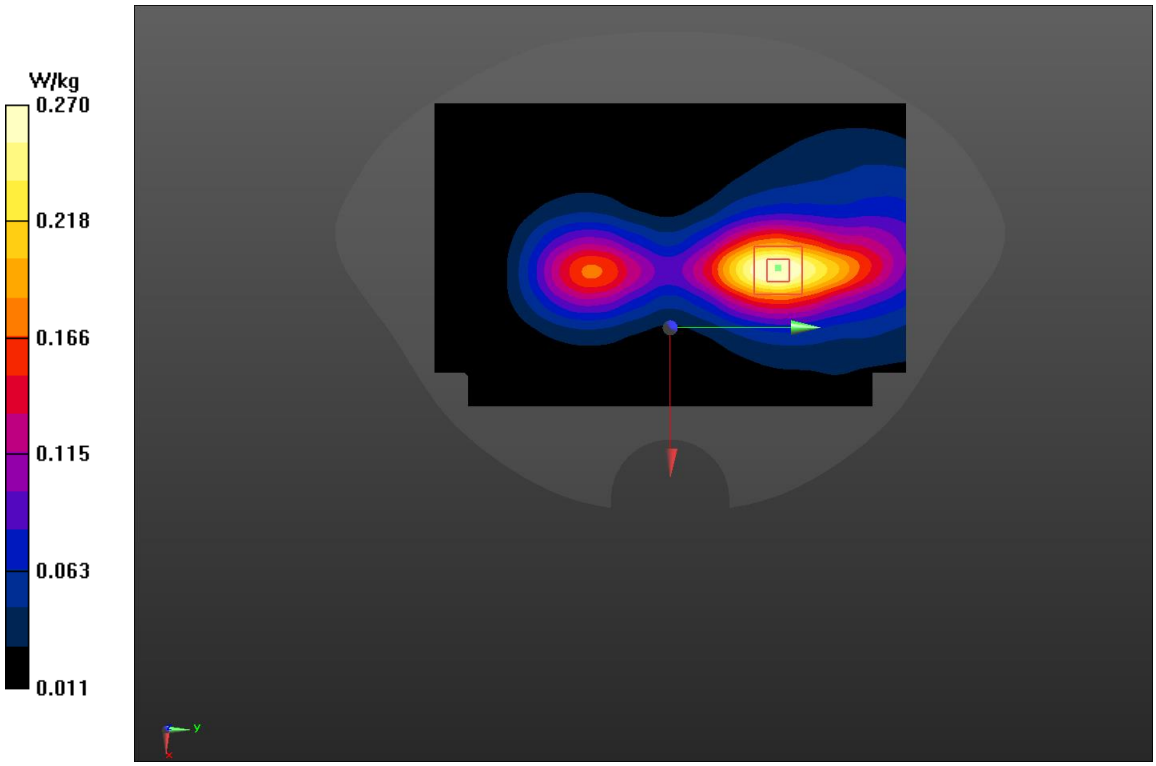


Fig A.30

WLAN2450_CH6 Left Cheek
Date: 5/25/2022
Electronics: DAE4 Sn549
Medium: head 2450 MHz
Medium parameters used: f = 2437; σ = 1.788 mho/m; εr = 39.16; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WLAN2450 2437 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.77,7.77,7.77)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.347 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.203 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.407 W/kg
SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.083 W/kg
Maximum value of SAR (measured) = 0.331 W/kg

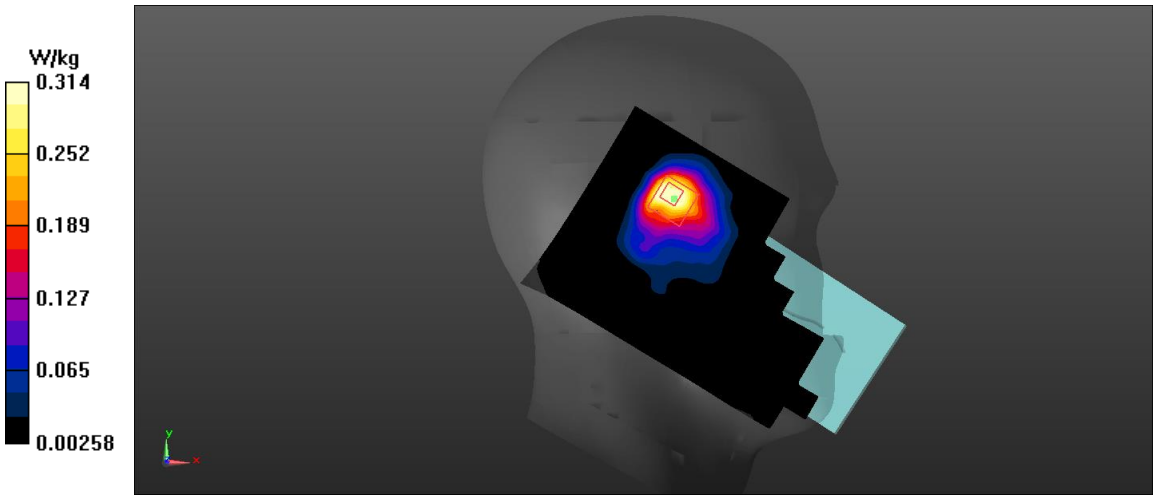


Fig A.31

WLAN2450_CH11 Top Edge 10mm
Date: 5/25/2022
Electronics: DAE4 Sn549
Medium: body 2450 MHz
Medium parameters used: f = 2462; σ = 1.811 mho/m; εr = 39.13; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WLAN2450 2462 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.77,7.77,7.77)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.398 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.35 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.469 W/kg
SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.127 W/kg
Maximum value of SAR (measured) = 0.350 W/kg

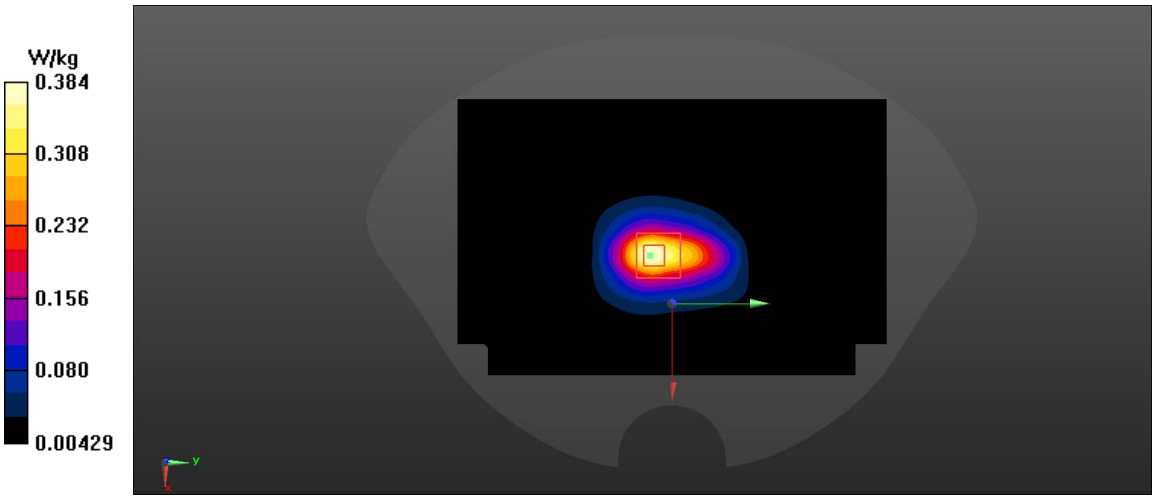


Fig A.32

UNII-3_CH155 Left Cheek
Date: 5/28/2022
Electronics: DAE4 Sn549
Medium: head 5750 MHz
Medium parameters used: f = 5775; σ = 5.28 mho/m; εr = 34.75; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: UNII-3 5775 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.85,4.85,4.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.555 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.157 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.528 W/kg
SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.036 W/kg
Maximum value of SAR (measured) = 0.299 W/kg

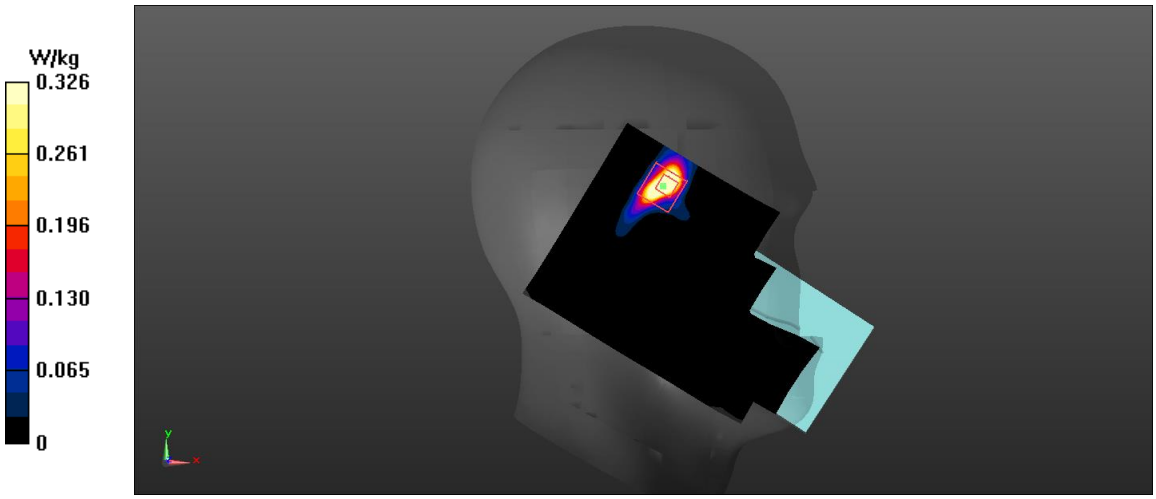


Fig A.33

UNII-3_CH165 Right Edge 10mm
Date: 5/28/2022
Electronics: DAE4 Sn549
Medium: body 5750 MHz
Medium parameters used: f = 5825; σ = 5.327 mho/m; εr = 34.69; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: UNII-3 5825 Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.85,4.85,4.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.743 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.148 W/kg
Maximum value of SAR (measured) = 0.477 W/kg

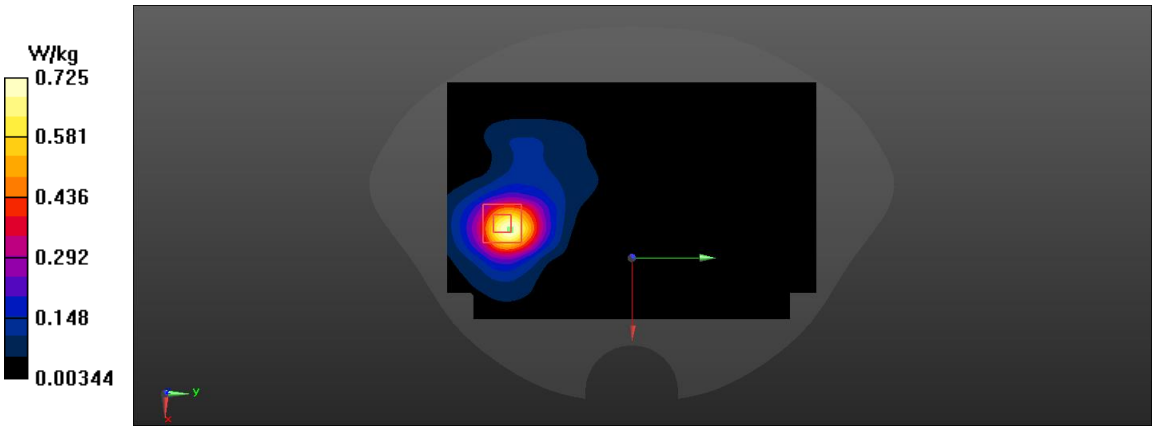


Fig A.34

n25_CH376500 Front 17mm
Date: 5/25/2022
Electronics: DAE4 Sn549
Medium: head 1900 MHz
Medium parameters used: f=1882.5 MHz; σ =1.390 mho/m; εr =39.317; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n25 1882.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.182 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.140 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.48 W/kg; SAR(10 g) = 0.301 W/kg
Maximum value of SAR (measured) = 0.610 W/kg

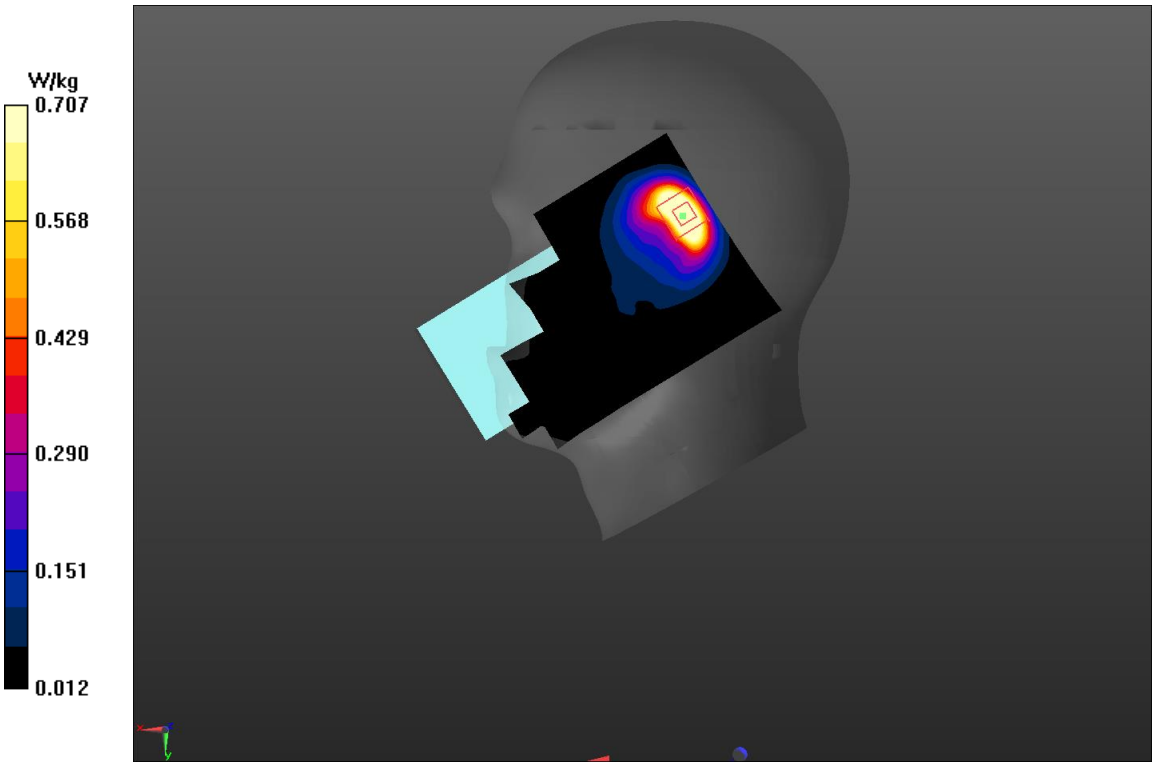


Fig A.35

n25_CH376500 Front 17mm
Date: 5/25/2022
Electronics: DAE4 Sn549
Medium: body 1900 MHz
Medium parameters used: f = 1882.5 MHz; σ = 1.361 mho/m; εr = 40.5; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n25 1882.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.511 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.79 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.598 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.203 W/kg
Maximum value of SAR (measured) = 0.412 W/kg

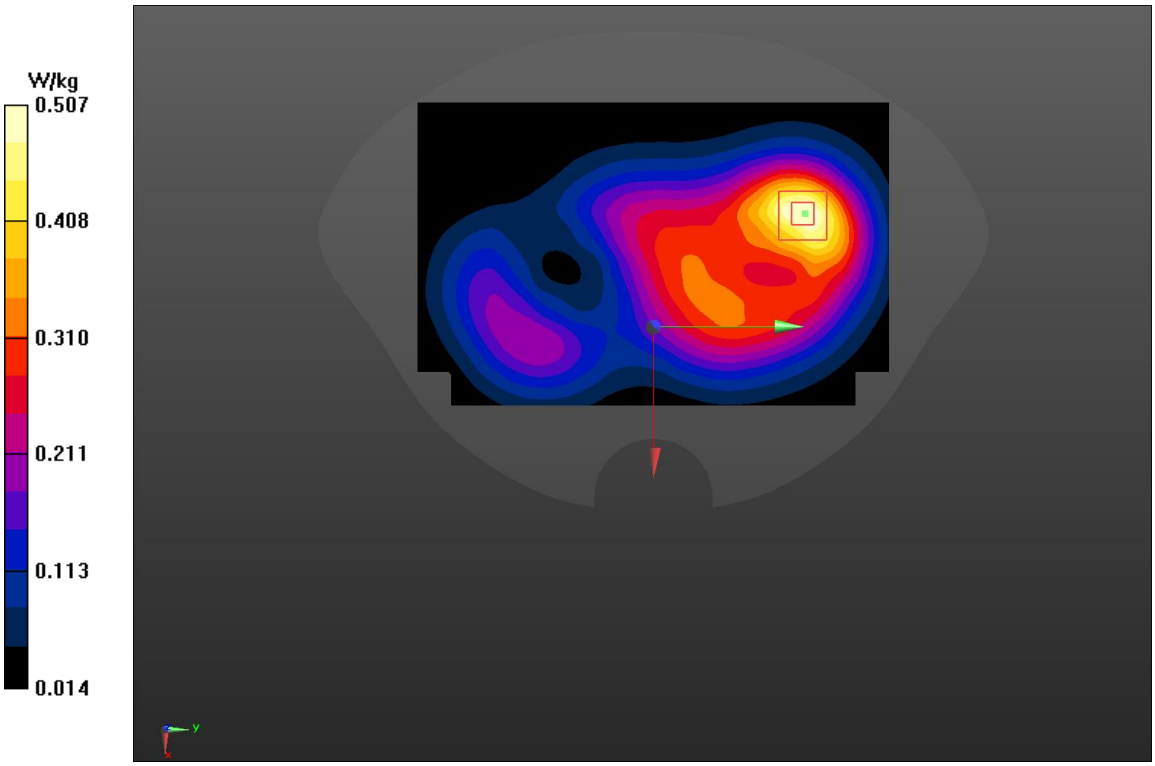


Fig A.36

n66_CH344000 Right Cheek
Date: 5/24/2022
Electronics: DAE4 Sn549
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; σ = 1.311 mho/m; εr = 40.07; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.717 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.81 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.794 W/kg
SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 0.491 W/kg

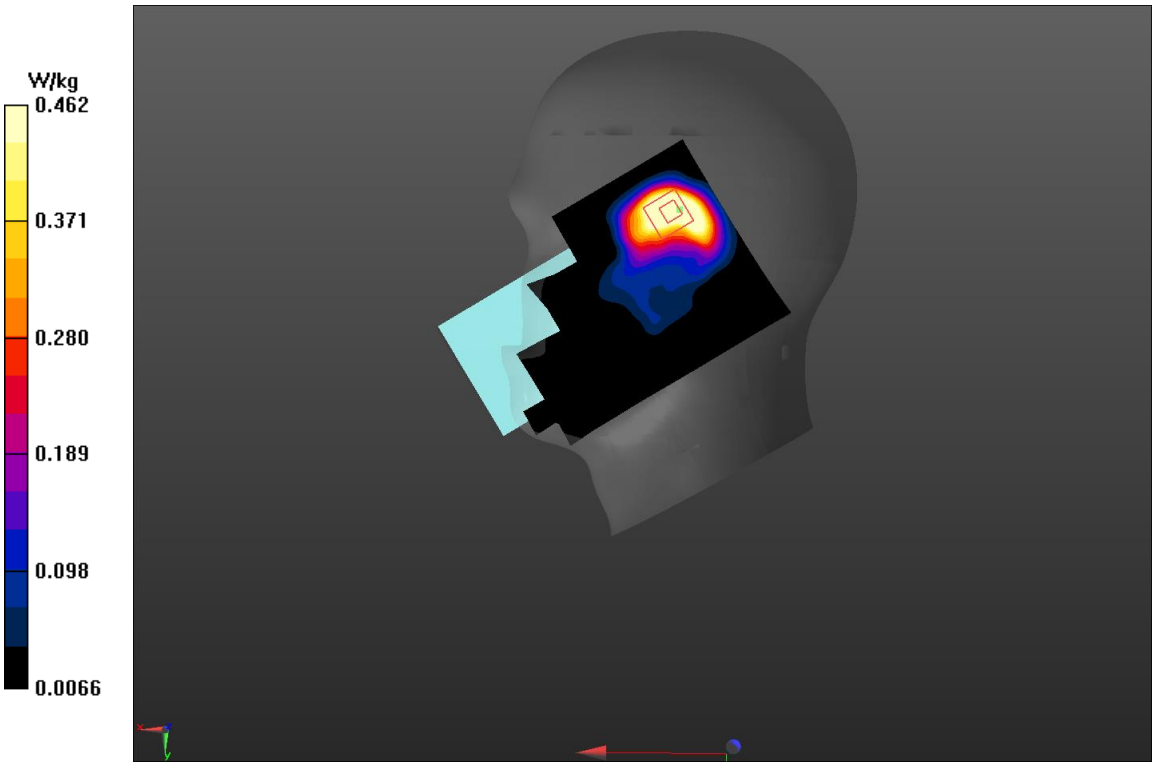


Fig A.37

n66_CH349000 Front 17mm
Date: 5/24/2022
Electronics: DAE4 Sn549
Medium: body 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.371 mho/m; εr = 39.73; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n66 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.381 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.314 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.418 W/kg
SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.146 W/kg
Maximum value of SAR (measured) = 0.311 W/kg

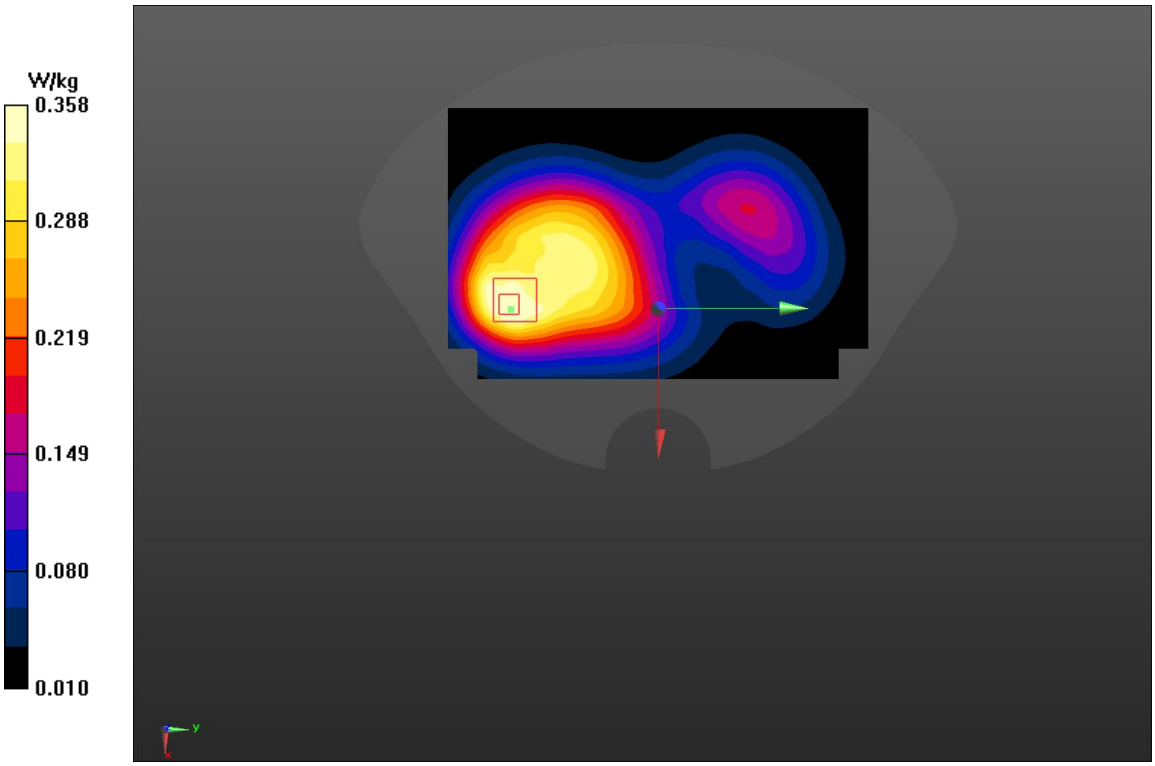


Fig A.38

n71_CH136100 Right Cheek
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f =680.5 MHz; σ =11.591 mho/m; εr =28.59; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n71 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.251 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.549 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.261 W/kg
SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.159 W/kg
Maximum value of SAR (measured) = 0.241 W/kg

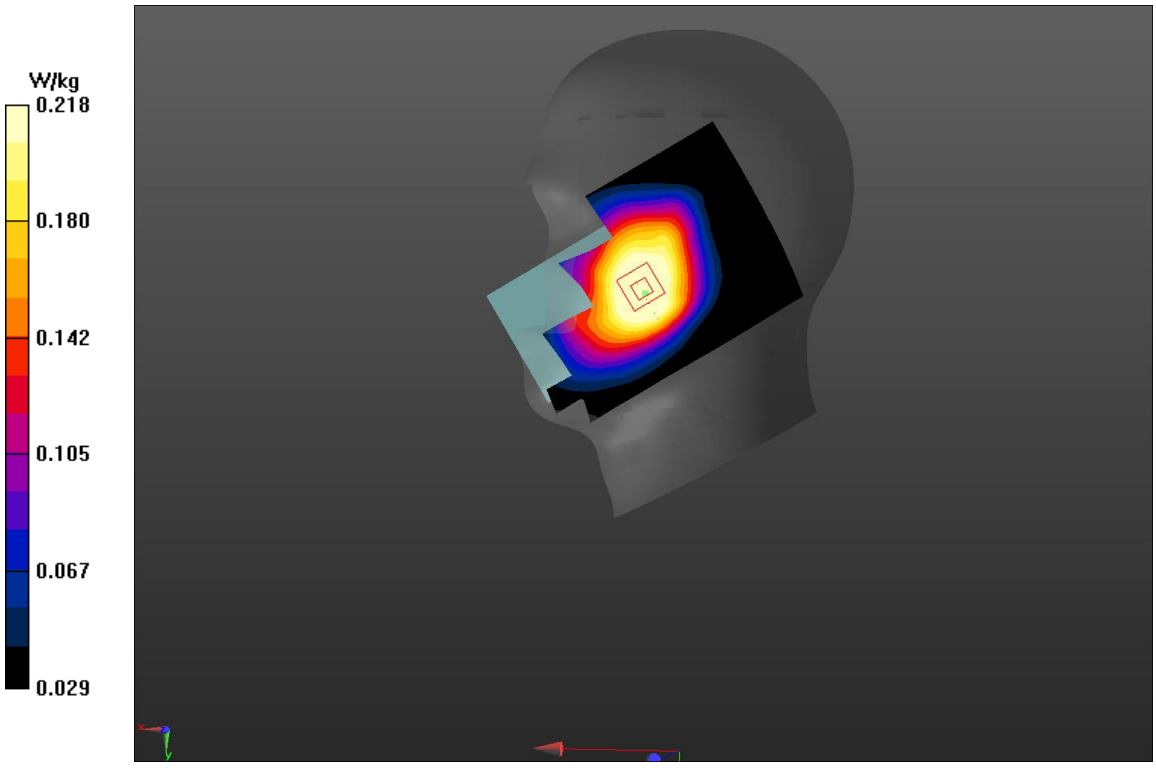


Fig A.39

n71_CH136100 Right Edge 10mm
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: body 750 MHz
Medium parameters used: f =680.5 MHz; σ =11.586 mho/m; εr =28.078; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n71 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.544 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.531 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.619 W/kg
SAR(1 g) = 0.37 W/kg; SAR(10 g) = 0.26 W/kg
Maximum value of SAR (measured) = 0.419 W/kg

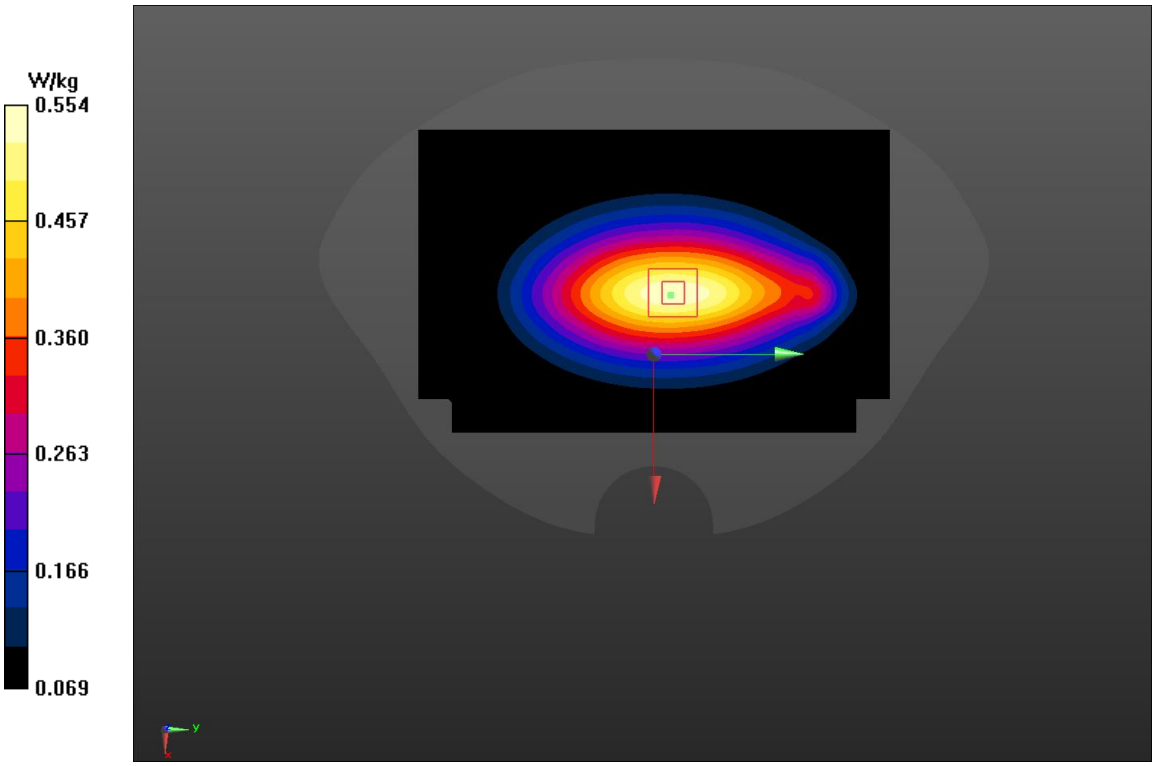


Fig A.40

n41 pc2_CH518598 Right Cheek
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f =2592.99 MHz; σ =10.89 mho/m; εr =27.07; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n41 pc2 2592.99 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.559 V/m; Power Drift = 0.143 dB
Peak SAR (extrapolated) = 1.611 W/kg
SAR(1 g) = 0.70 W/kg; SAR(10 g) = 0.277 W/kg
Maximum value of SAR (measured) = 0.810 W/kg

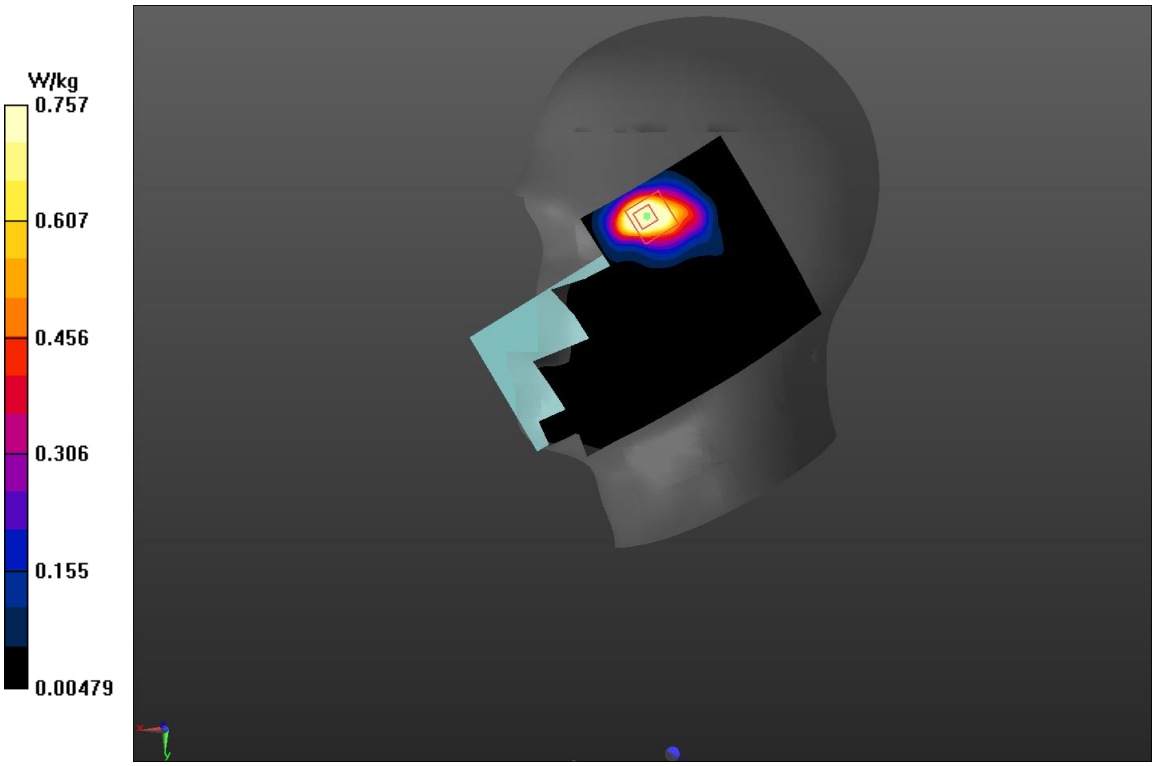


Fig A.41

n41 pc2_CH518598 Left Edge 17mm
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: body 2600 MHz
Medium parameters used: f=2592.99 MHz; σ =10.90mho/m; εr = 27.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n41 pc2 2592.99 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.329 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.5485 V/m; Power Drift = 0.171 dB
Peak SAR (extrapolated) = 0.403 W/kg
SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.609 W/kg

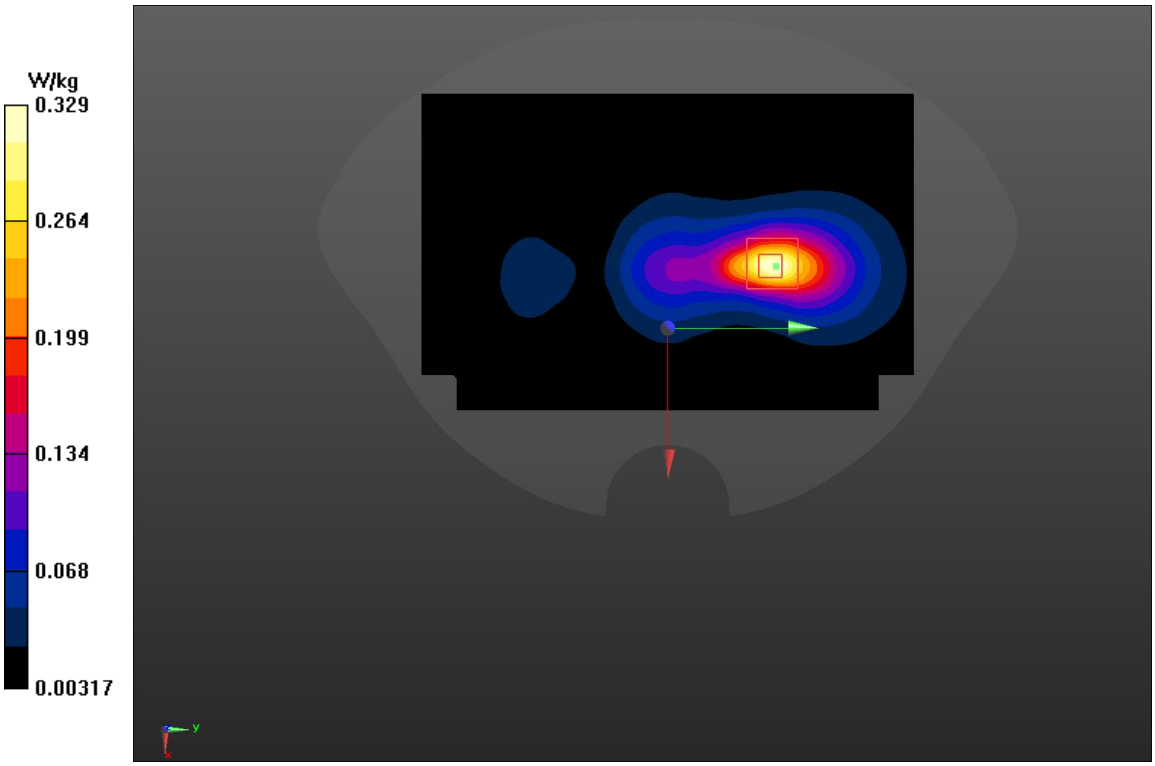


Fig A.42

n41 pc3_CH509406 Right Cheek
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f=2455.02 MHz; σ=10.89 mho/m; εr = 27.07; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n41 pc3 2455.02 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.559 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.611 W/kg
SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.171 W/kg
Maximum value of SAR (measured) = 0.410 W/kg

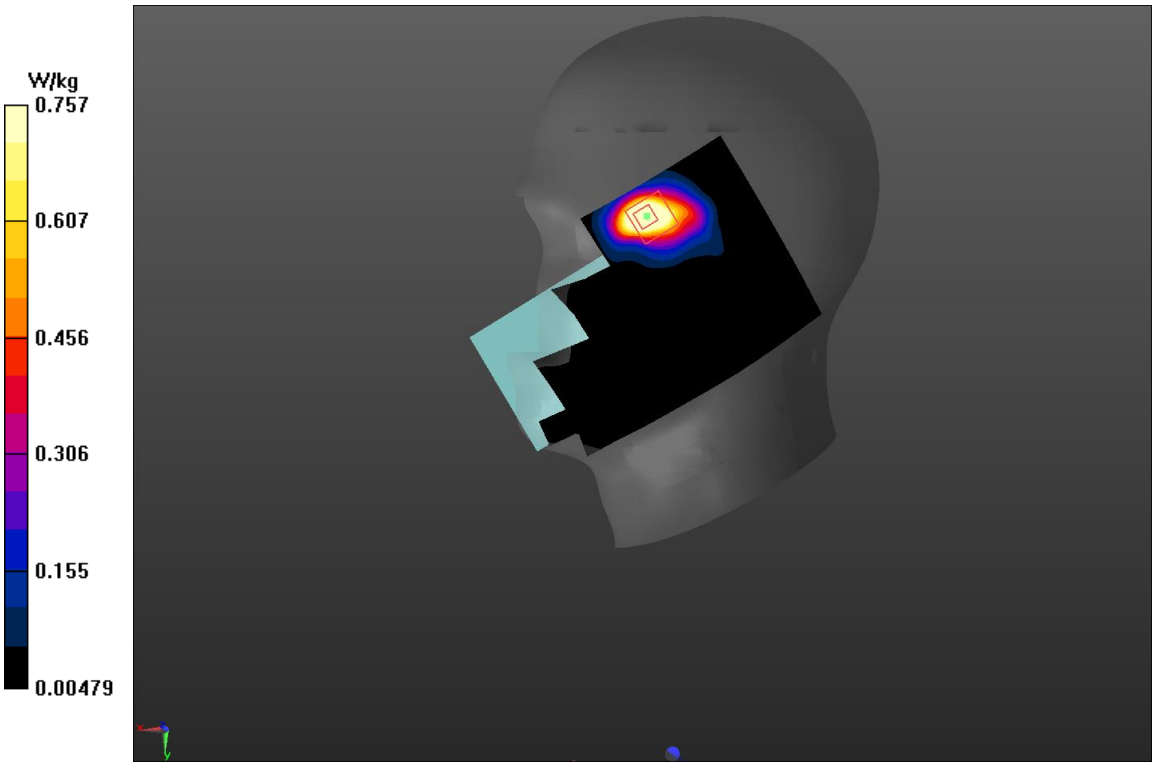


Fig A.43

n41 pc3 Left Edge 17mm
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: body 2600 MHz
Medium parameters used: f =2639 MHz; σ =10.909 mho/m; εr =27.649; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n41 pc3 2639 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.321 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.545 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.403 W/kg
SAR(1 g) = 0.57 W/kg; SAR(10 g) = 0.365 W/kg
Maximum value of SAR (measured) = 0.613 W/kg

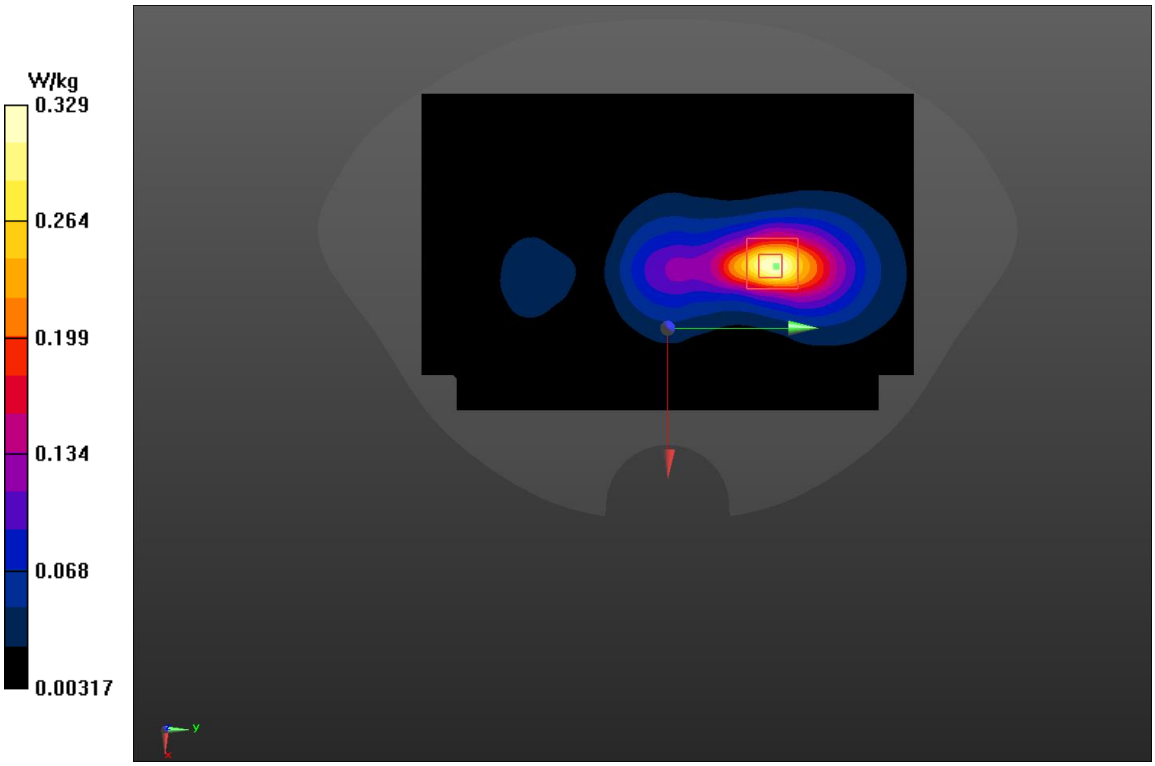


Fig A.44

n77 pc2_CH633334 Left Tilt
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f=3500.01 MHz; σ=2.982 mho/m; εr=35.811; ρ =1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3000000000000001°C
Communication System: n77 pc2 3500.01 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.837 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.904 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.680 W/kg
SAR(1 g) = 0.553 W/kg; SAR(10 g) = 0.210 W/kg
Maximum value of SAR (measured) = 0.632 W/kg

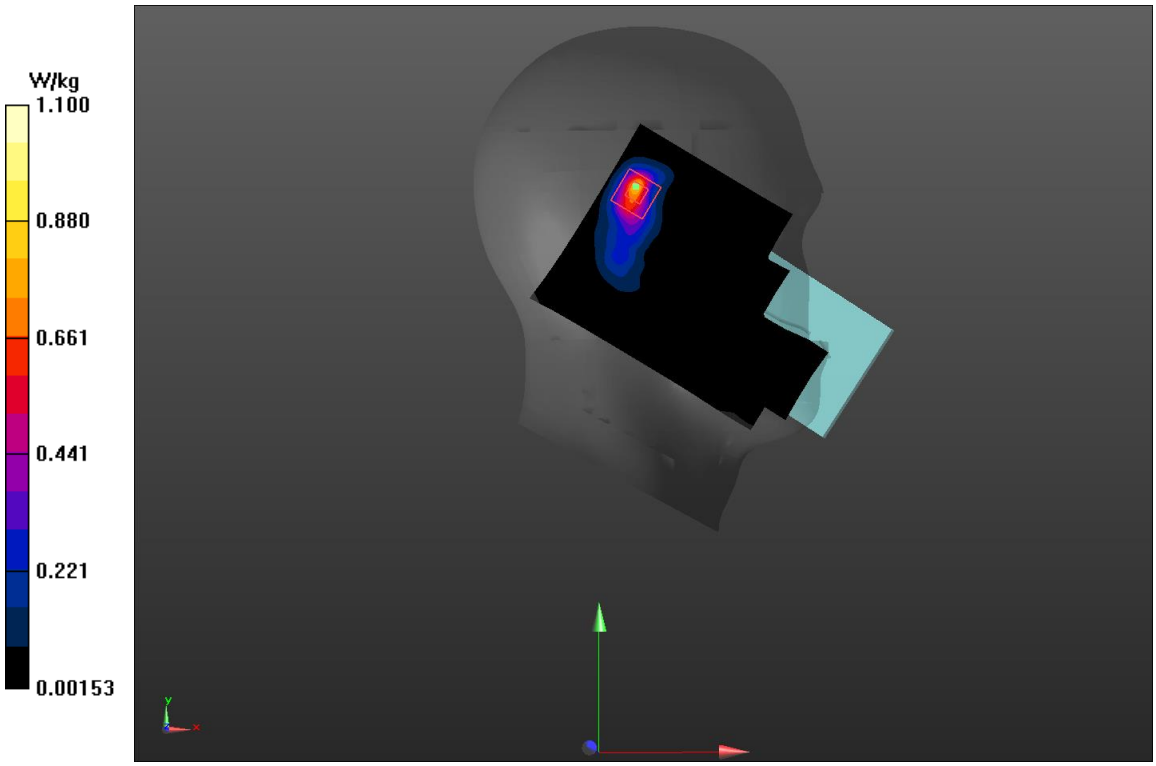


Fig A.45

n77 pc2_CH633334 Top Edge 21mm
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: body 2600 MHz
Medium parameters used: f=3500.01 MHz; σ=2.709 mho/m; εr=6.109; ρ= 1000 kg/m^3
Ambient Temperature: 22.5^{o}C, Liquid Temperature: 22.31^{o}C
Communication System: n77 pc2 3500.01 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.967 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.57 V/m; Power Drift = 0.179 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.63 W/kg; SAR(10 g) = 0.332 W/kg
Maximum value of SAR (measured) = 0.713 W/kg

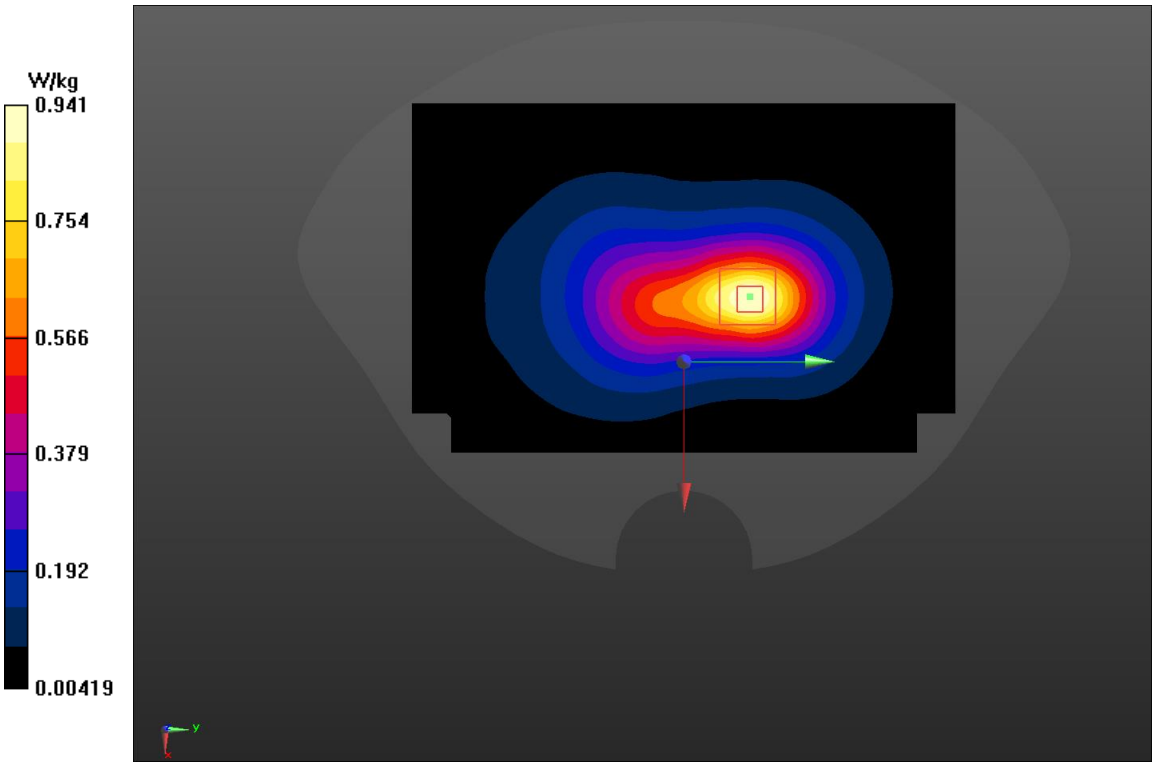


Fig A.46

n77 pc3_CH636000 Left Tilt
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f= 3540 MHz; σ= 2.918 mho/m; εr= 35.809; ρ= 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n77 pc3 3540 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.619 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.116 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.601 W/kg
SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.331W/kg
Maximum value of SAR (measured) = 0.640 W/kg

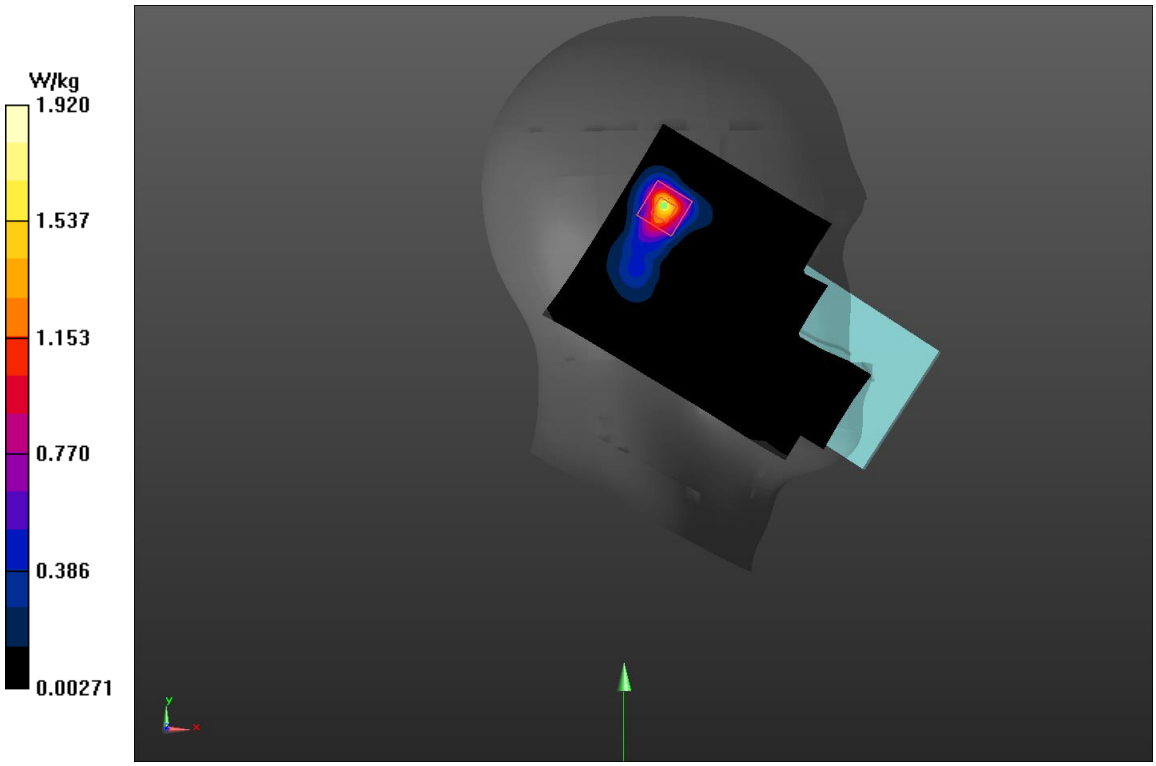


Fig A.47

n77 pc3_CH633334 Top Edge 21mm
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: body 2600 MHz
Medium parameters used: f=3500.01 MHz; σ=2.943 mho/m; εr=35.791 ; ρ=1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.31ºC
Communication System: n77 pc3 3500.01 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.74 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 0.630 W/kg

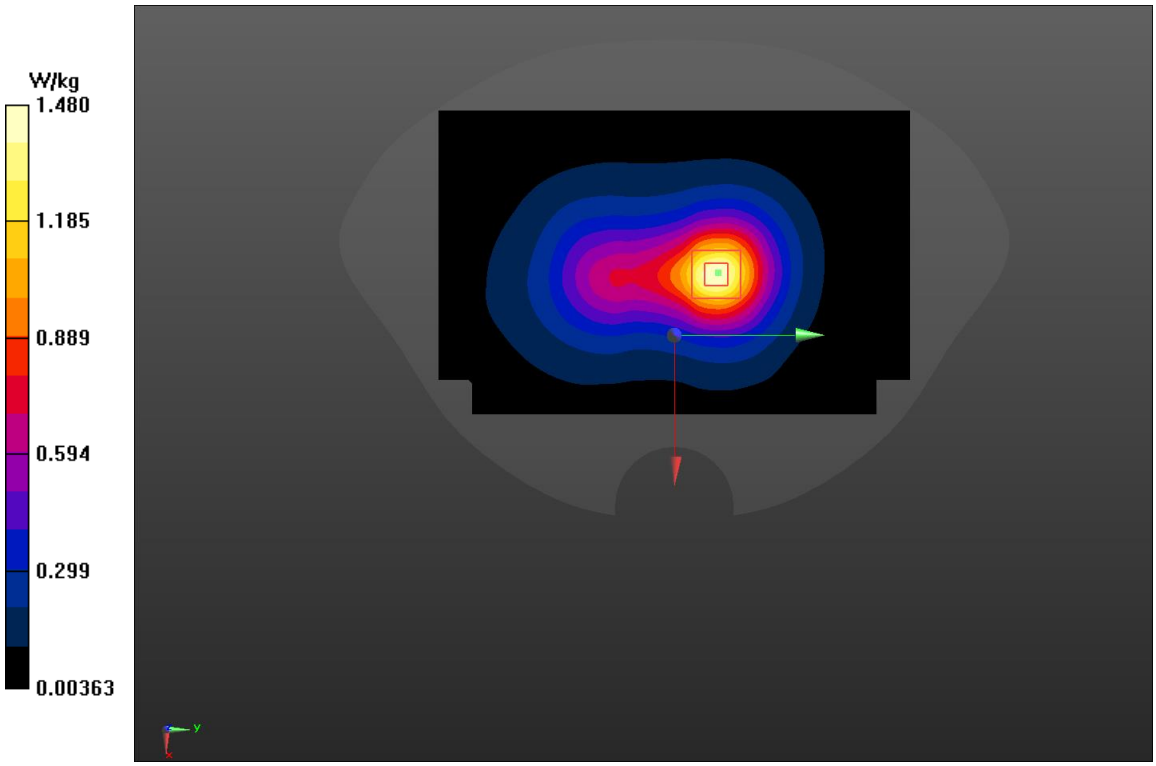


Fig A.48

n77 pc2_CH654267 Left Tilt
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f = 3814 MHz; σ =2.991 mho/m; εr =35.809 ; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n77 pc2 3814 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(6.76,6.76,6.76)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.623 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.126 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 2.611 W/kg
SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.3421 W/kg
Maximum value of SAR (measured) = 1.13 W/kg

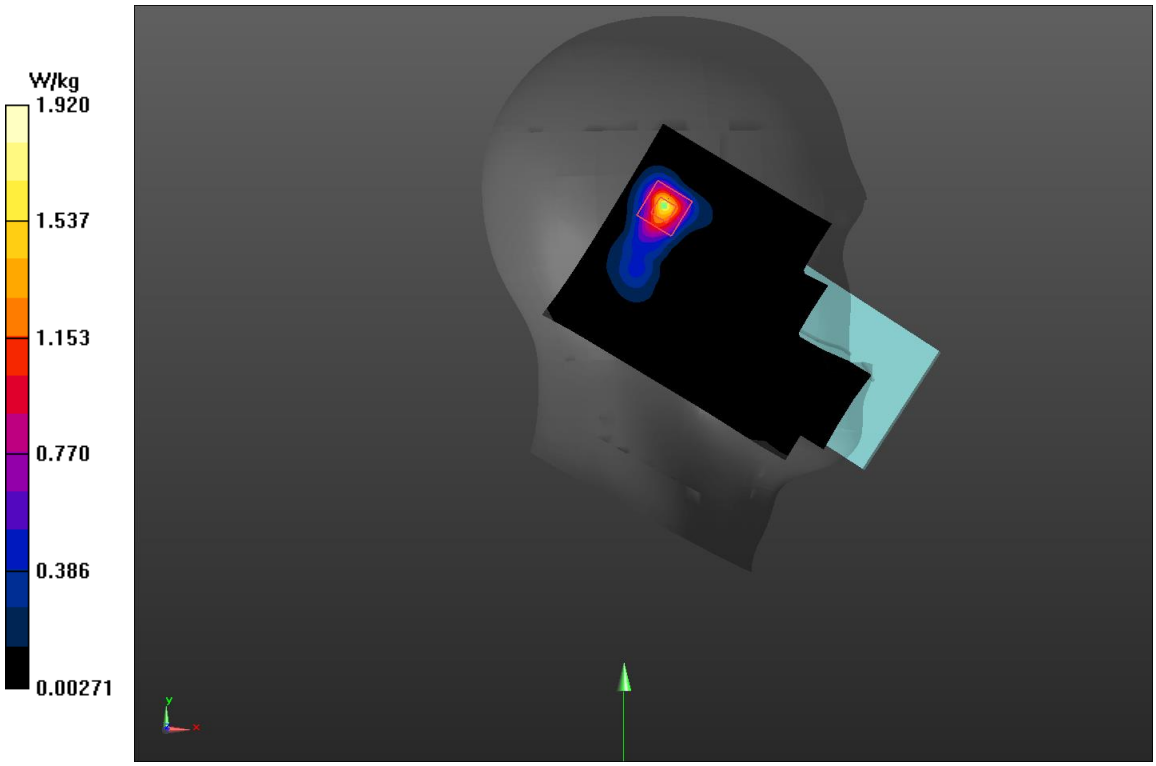


Fig A.49

n77 pc2_CH650800 Top Edge 21mm
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: body 2600 MHz
Medium parameters used: f= 3762 MHz; σ = 2.943 mho/m; εr =35.791 ; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.31°C
Communication System: n77 pc2 3762 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(6.76,6.76,6.76)

Area Scan (71x121x1): 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 = 13.74 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.401 W/kg
Maximum value of SAR (measured) = 1.01 W/kg

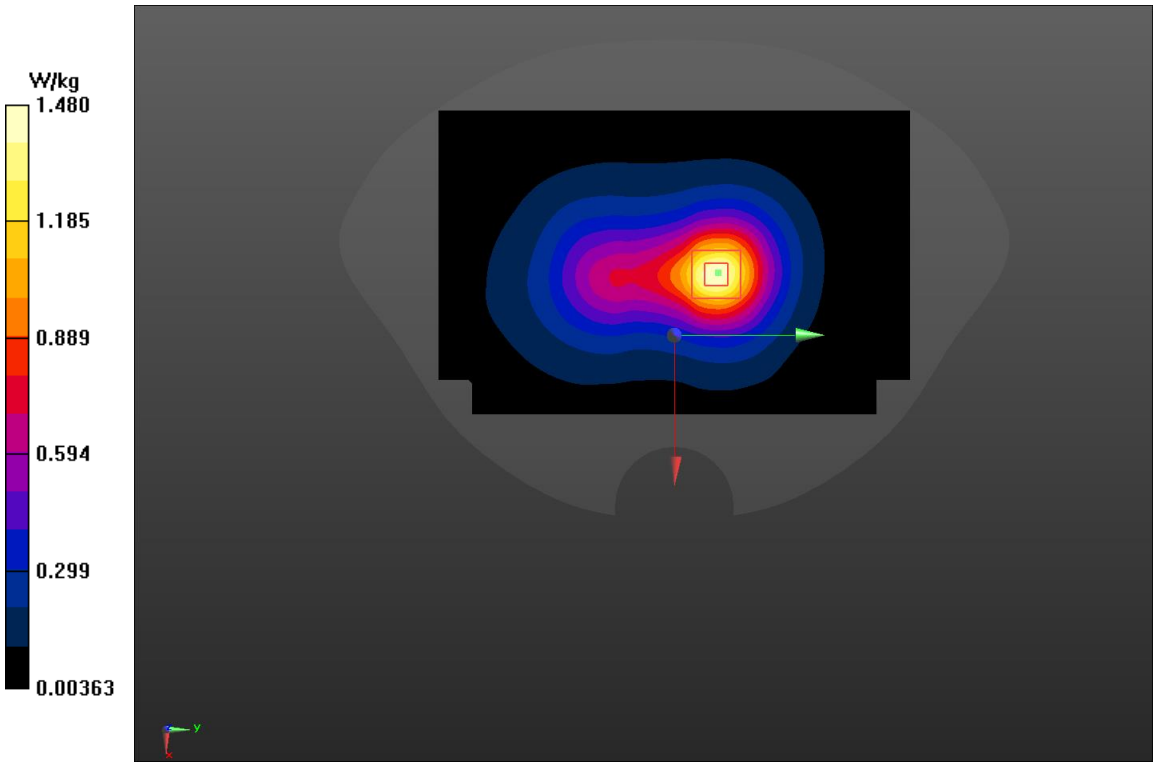


Fig A.50

n77 pc3_CH647334 Left Tilt
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: head 2600 MHz
Medium parameters used: f=3710.01 MHz; σ=2.991 mho/m; εr=35.809; ρ=1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.31ºC
Communication System: n77 pc3 3710.01 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(6.76,6.76,6.76)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.613 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.176 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.605 W/kg
SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.216 W/kg
Maximum value of SAR (measured) = 0.614 W/kg

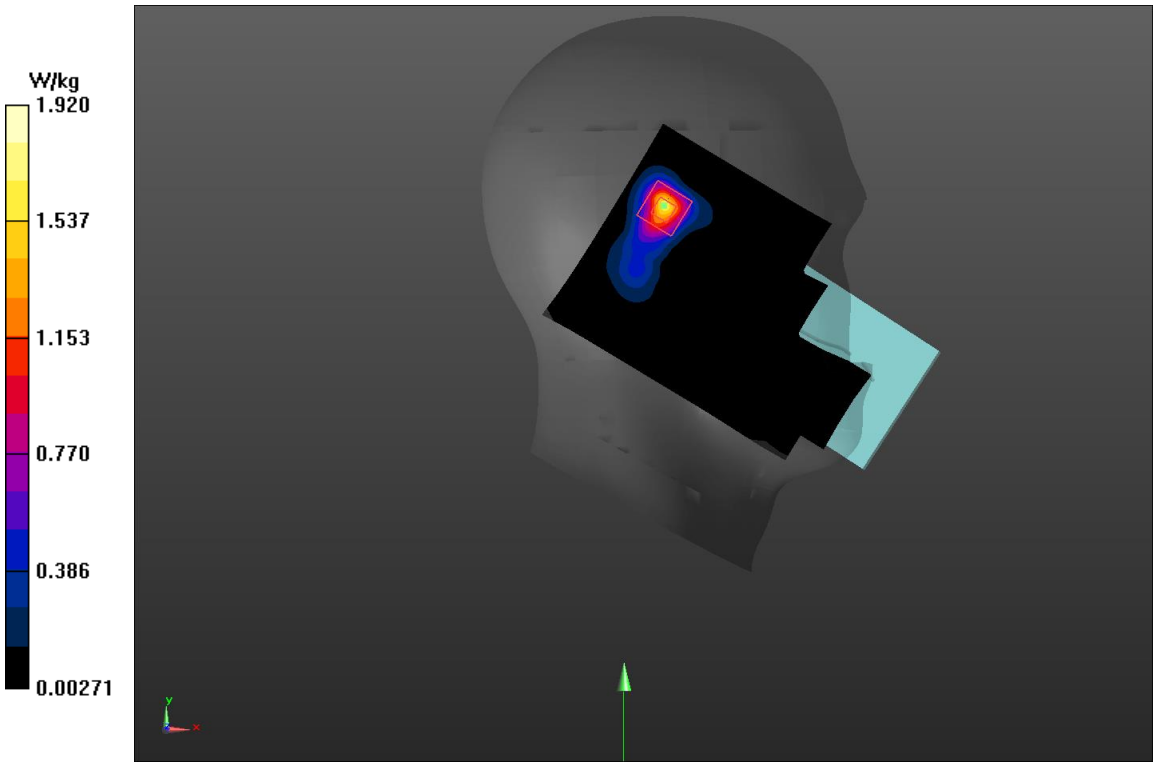


Fig A.51

n77 pc3_CH650800 Top Edge 21mm
Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: body 2600 MHz
Medium parameters used: f= 3762 MHz; σ = 2.711 mho/m; εr =36.109 ; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.311°C
Communication System: n77 pc3 3762 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(6.76,6.76,6.76)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.74 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.560 W/kg; SAR(10 g) = 0.322 W/kg
Maximum value of SAR (measured) = 0.631 W/kg

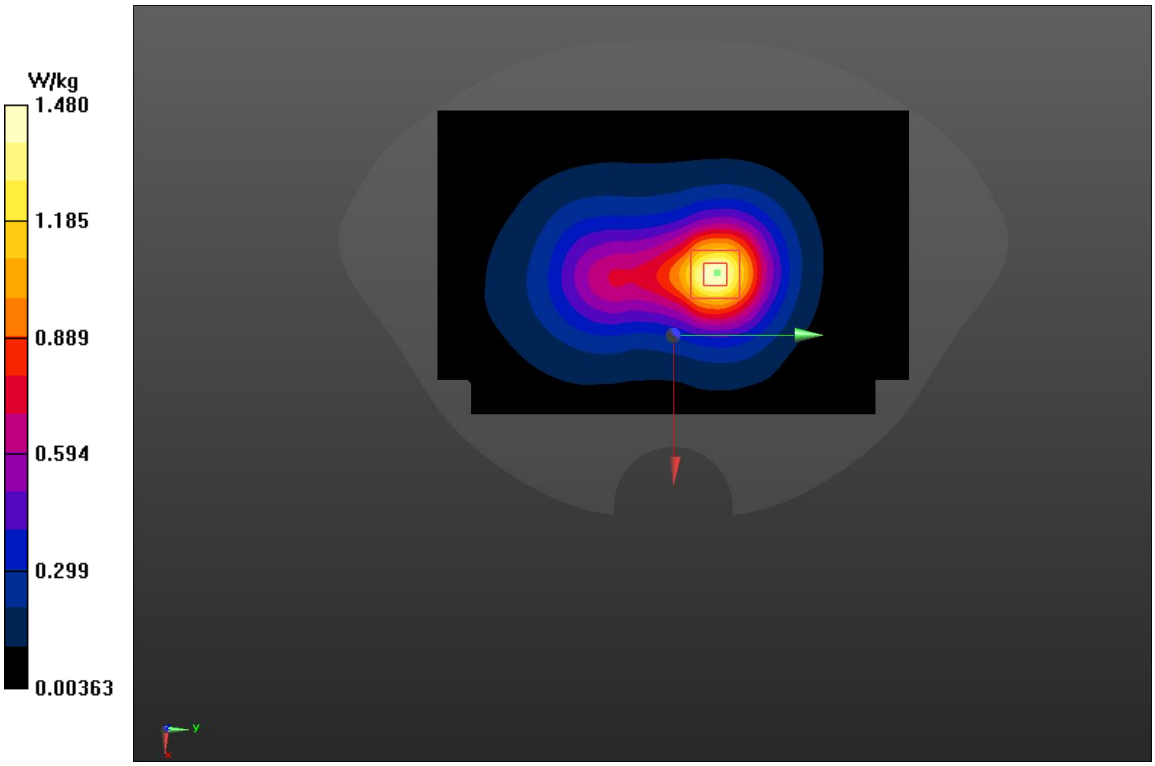


Fig A.52

n5_CH136100 Right Cheek
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: head 750 MHz
Medium parameters used: f = 680.5 MHz; σ =11.12 mho/m; εr =28.08 ; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.31ºC
Communication System: n5 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.106 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=5mm, dz=5mm
Reference Value = 2.811 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.111 W/kg
SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.161 W/kg
Maximum value of SAR (measured) = 0.340 W/kg

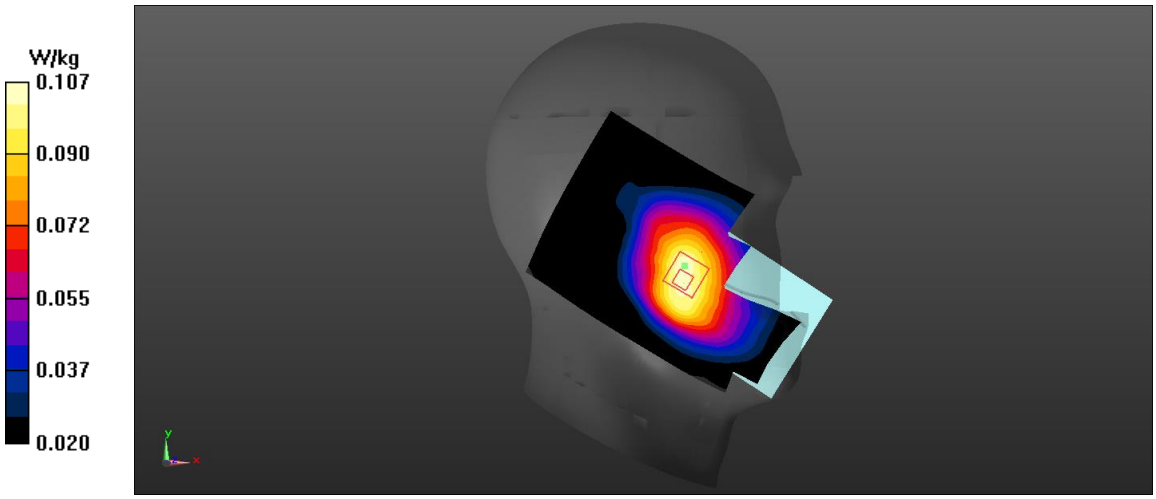


Fig A.53

n5_CH136100 Right Edge 10mm
Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: body 750 MHz
Medium parameters used: f = 680.5 MHz; σ=11.613 mho/m; εr = 28.08; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.31ºC
Communication System: n5 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.511 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.32 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.661 W/kg
SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.300 W/kg
Maximum value of SAR (measured) = 0.491 W/kg

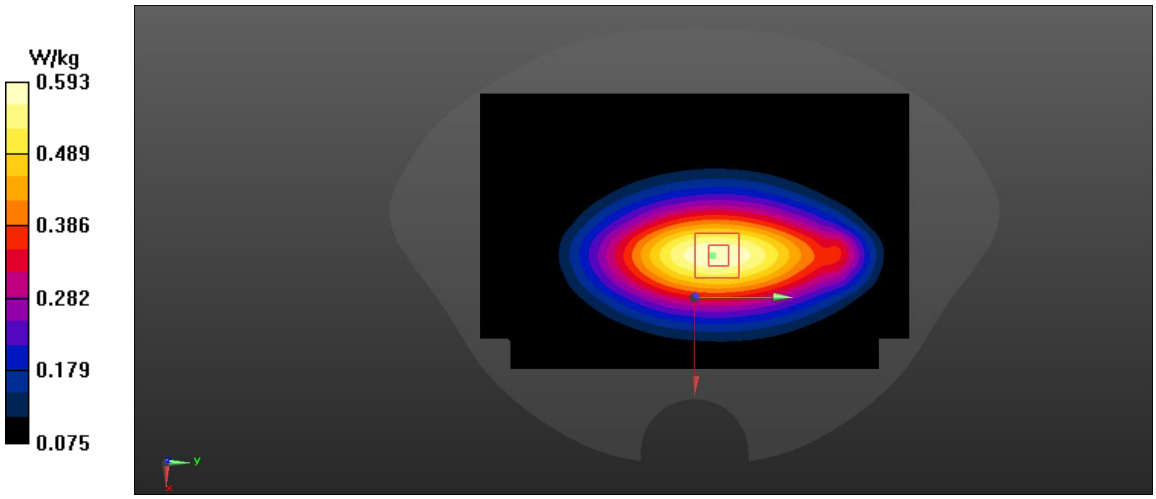


Fig A.52

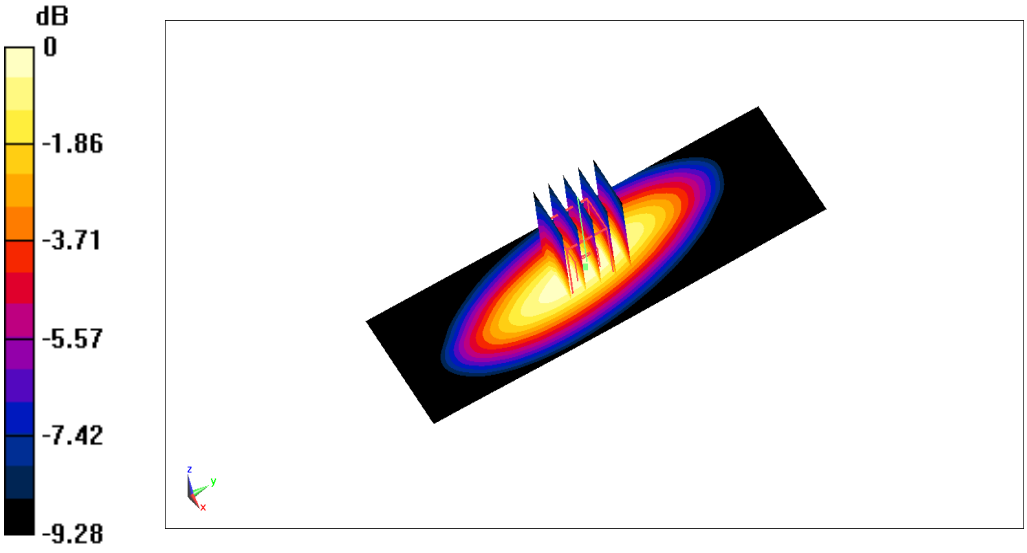
J.5 System Verification Results

750 MHz

Date: 5/15/2022
Electronics: DAE4 Sn549
Medium: Head 750 MHz
Medium parameters used: f = 750 MHz; σ =0.891 mho/m; ε_r = 41.59; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 60.11 V/m; Power Drift = 0.05
Fast SAR: SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.4 W/kg
Maximum value of SAR (interpolated) = 2.84 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =60.11 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 3.29 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.36 W/kg
Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.85 W/kg = 4.55 dB W/kg

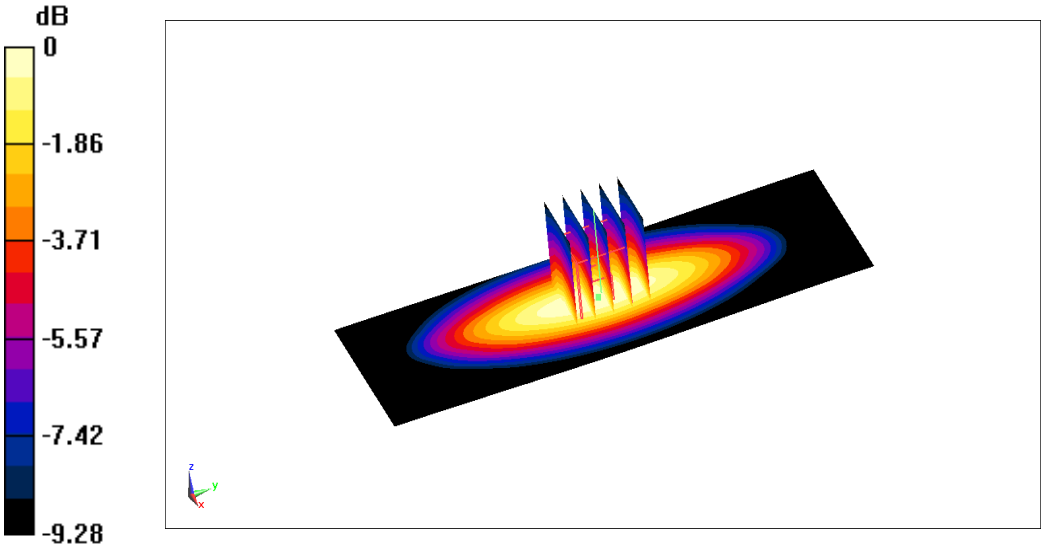
Fig.B.1 validation 750 MHz 250mW

750 MHz

Date: 5/16/2022
Electronics: DAE4 Sn549
Medium: Head 750 MHz
Medium parameters used: f = 750 MHz; σ =0.893 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 59.81 V/m; Power Drift = -0.04
Fast SAR: SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.37 W/kg
Maximum value of SAR (interpolated) = 2.76 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =59.81 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.3 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.38 W/kg
Maximum value of SAR (measured) = 2.93 W/kg



0 dB = 2.93 W/kg = 4.67 dB W/kg

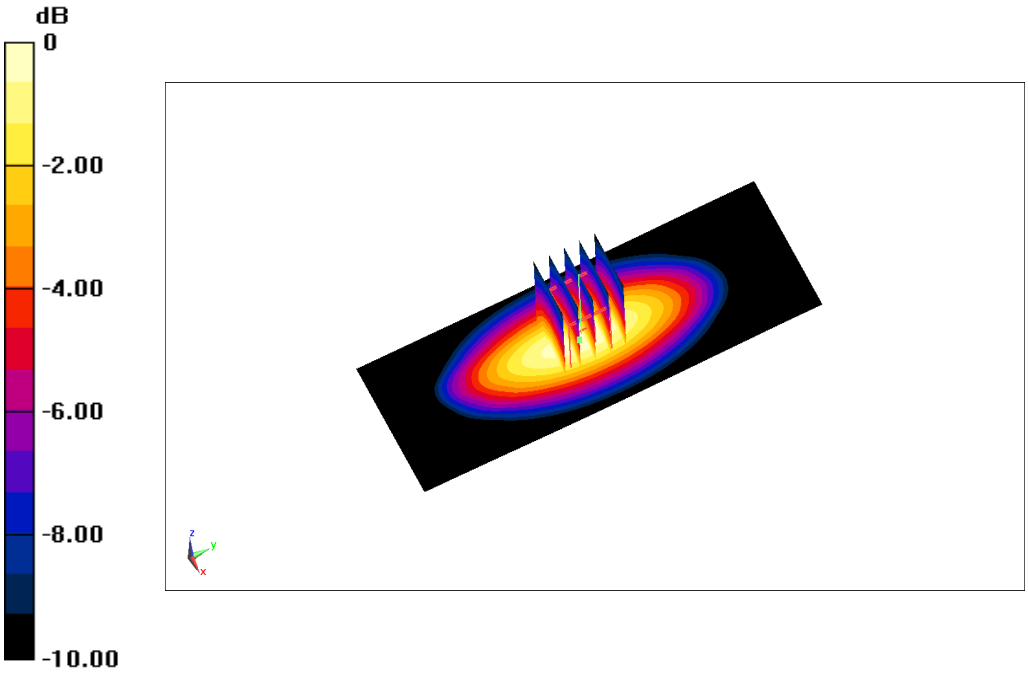
Fig.B.2 validation 750 MHz 250mW

835 MHz

Date: 5/17/2022
Electronics: DAE4 Sn549
Medium: Head 835 MHz
Medium parameters used: f = 835 MHz; σ =0.886 mho/m; ε_r = 42; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 61.99 V/m; Power Drift = -0.02
Fast SAR: SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.54 W/kg
Maximum value of SAR (interpolated) = 3.14 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =61.99 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.72 W/kg
SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.56 W/kg
Maximum value of SAR (measured) = 3.24 W/kg



0 dB = 3.24 W/kg = 5.11 dB W/kg

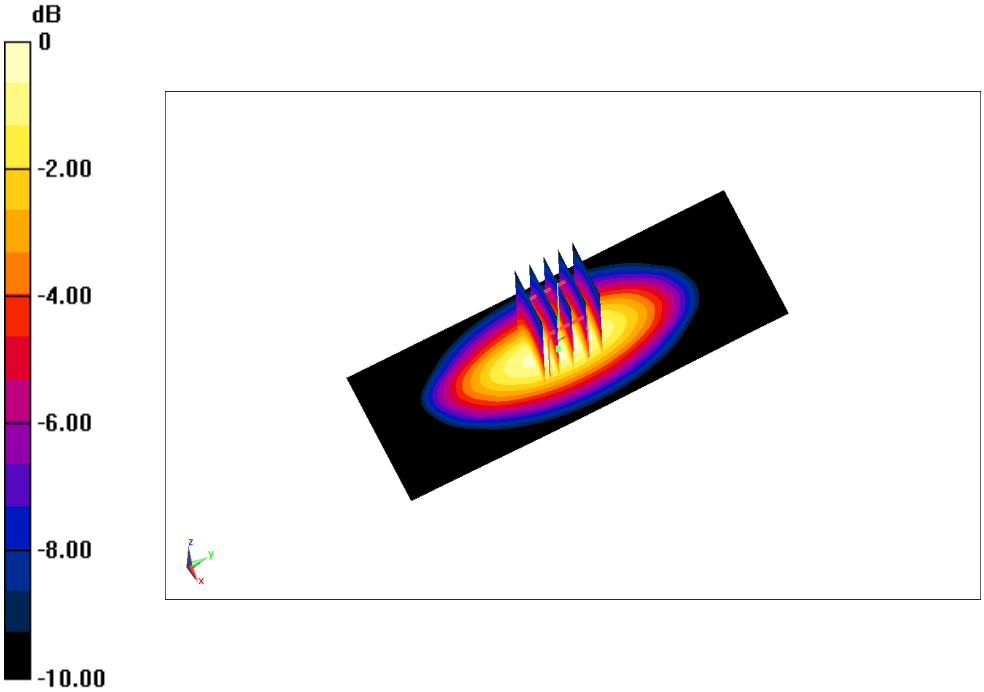
Fig.B.3 validation 835 MHz 250mW

835 MHz

Date: 5/18/2022
Electronics: DAE4 Sn549
Medium: Head 835 MHz
Medium parameters used: f = 835 MHz; σ =0.903 mho/m; ε_r = 41.43; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 62.54 V/m; Power Drift = -0.02
Fast SAR: SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.54 W/kg
Maximum value of SAR (interpolated) = 3.17 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =62.54 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.71 W/kg
SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.58 W/kg
Maximum value of SAR (measured) = 3.27 W/kg



0 dB = 3.27 W/kg = 5.15 dB W/kg

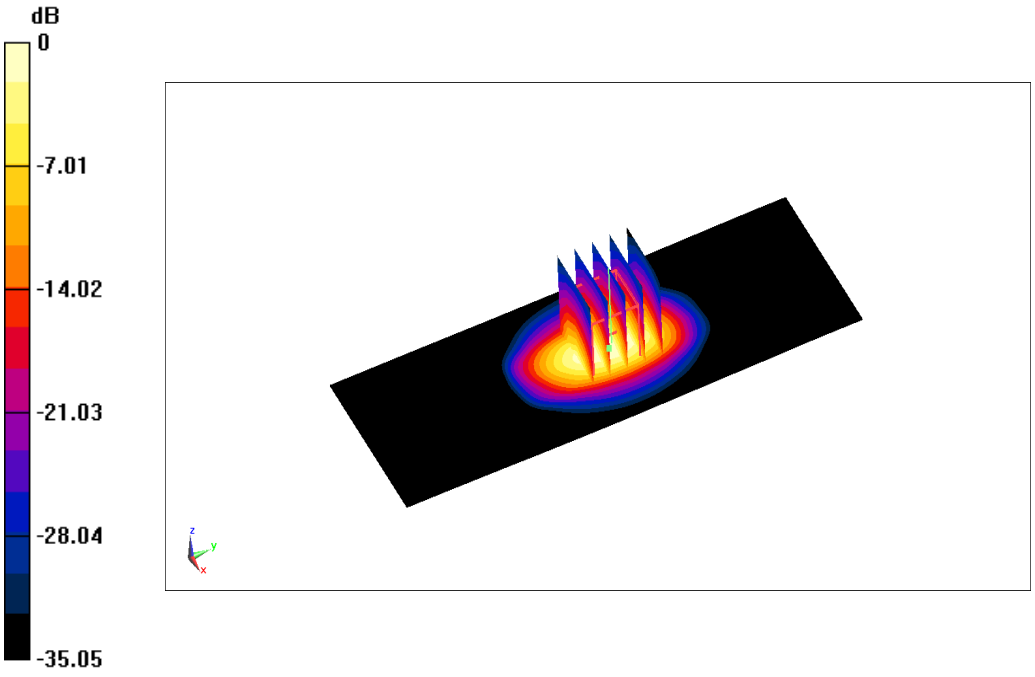
Fig.B.4 validation 835 MHz 250mW

1750 MHz

Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.37 mho/m; ε_r = 40.02; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 105.7 V/m; Power Drift = -0.09
Fast SAR: SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.77 W/kg
Maximum value of SAR (interpolated) = 14.14 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =105.7 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 17.12 W/kg
SAR(1 g) = 9.12 W/kg; SAR(10 g) = 4.8 W/kg
Maximum value of SAR (measured) = 13.91 W/kg



0 dB = 13.91 W/kg = 11.43 dB W/kg

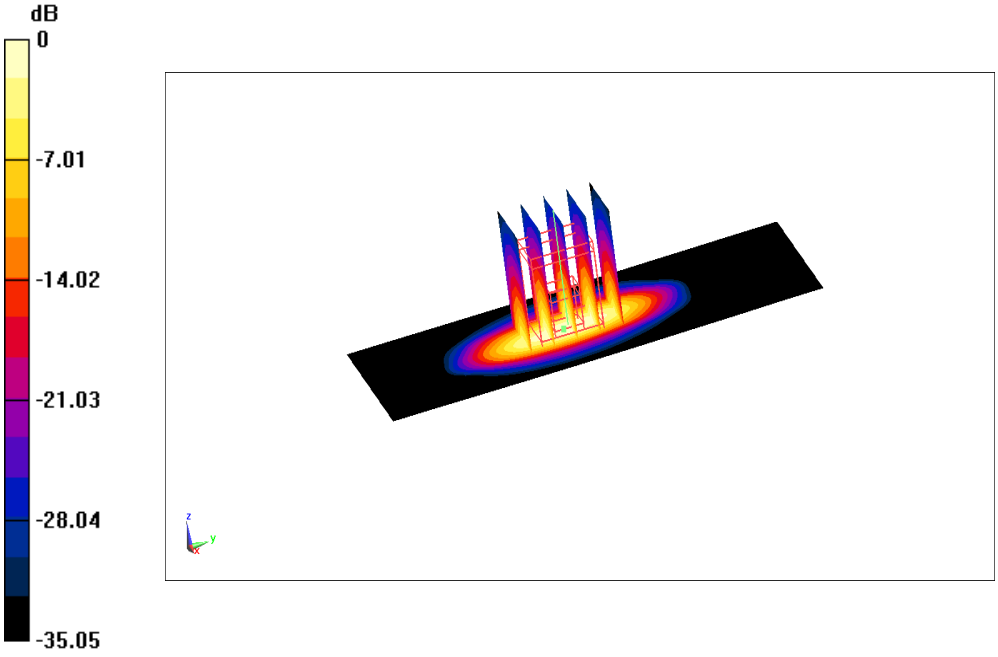
Fig.B.5 validation 1750 MHz 250mW

1750 MHz

Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.364 mho/m; ε_r = 40.54; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 107.18 V/m; Power Drift = 0.07
Fast SAR: SAR(1 g) = 8.98 W/kg; SAR(10 g) = 4.7 W/kg
Maximum value of SAR (interpolated) = 14.15 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =107.18 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 16.61 W/kg
SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.78 W/kg
Maximum value of SAR (measured) = 13.86 W/kg



0 dB = 13.86 W/kg = 11.42 dB W/kg

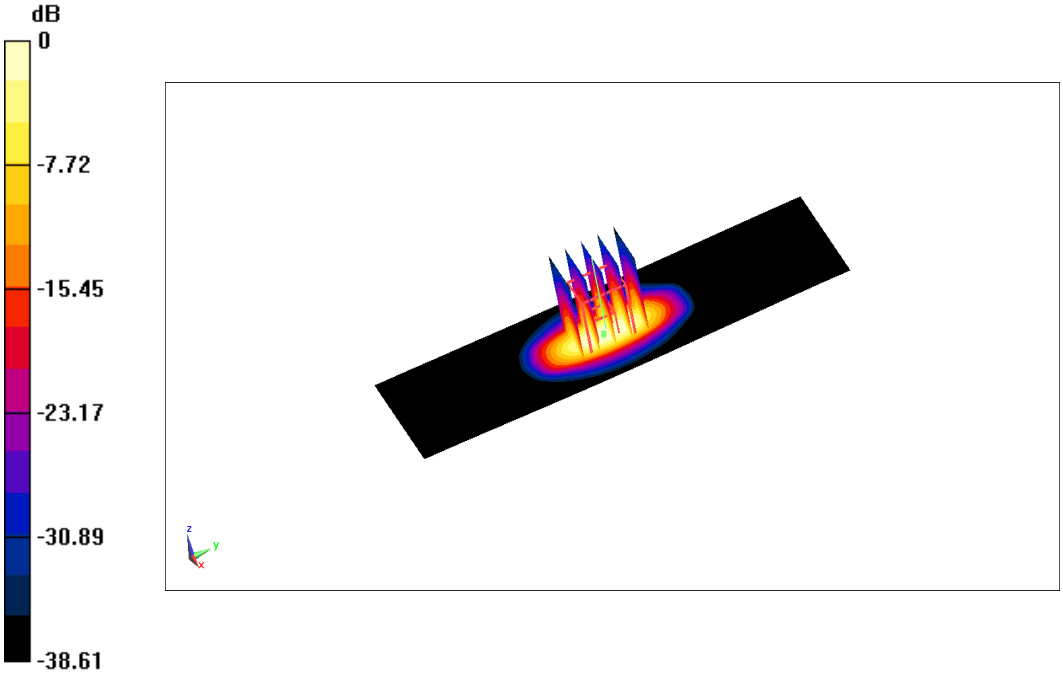
Fig.B.6 validation 1750 MHz 250mW

1900 MHz

Date: 5/21/2022
Electronics: DAE4 Sn549
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.392 mho/m; ε_r = 40.33; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 109.03 V/m; Power Drift = 0.05
Fast SAR: SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.07 W/kg
Maximum value of SAR (interpolated) = 15.31 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =109.03 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 18.17 W/kg
SAR(1 g) = 9.77 W/kg; SAR(10 g) = 5.07 W/kg
Maximum value of SAR (measured) = 15.06 W/kg



0 dB = 15.06 W/kg = 11.78 dB W/kg

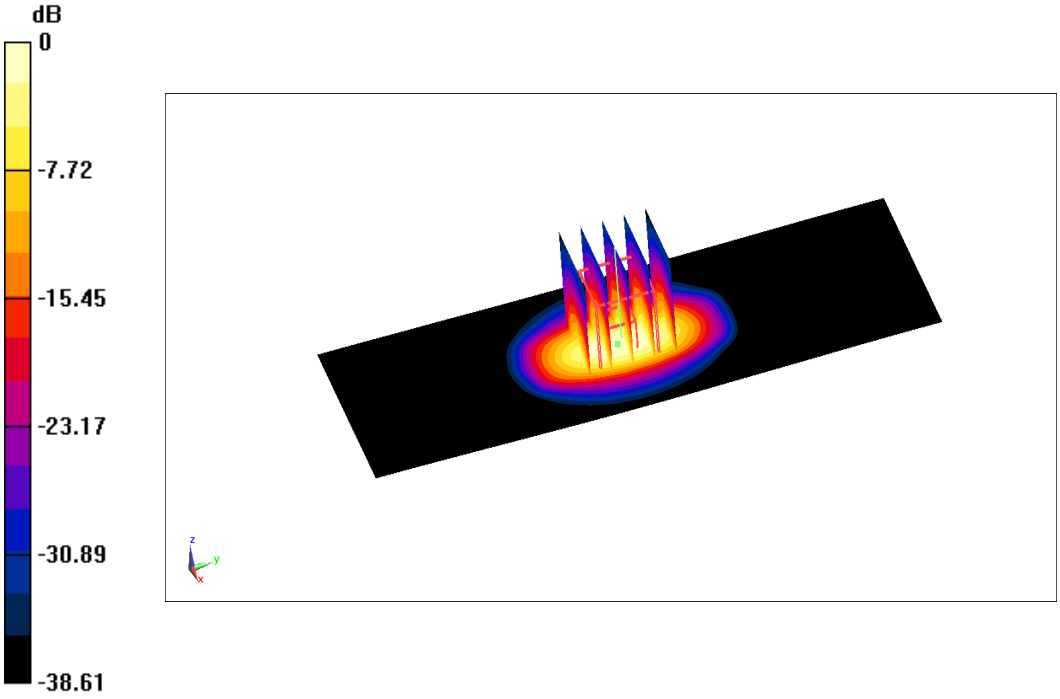
Fig.B.7 validation 1900 MHz 250mW

1900 MHz

Date: 5/22/2022
Electronics: DAE4 Sn549
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.41 mho/m; ε_r = 39.34; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 108.13 V/m; Power Drift = -0.04
Fast SAR: SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.15 W/kg
Maximum value of SAR (interpolated) = 14.91 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =108.13 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 18.19 W/kg
SAR(1 g) = 10.04 W/kg; SAR(10 g) = 5.2 W/kg
Maximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg = 11.79 dB W/kg

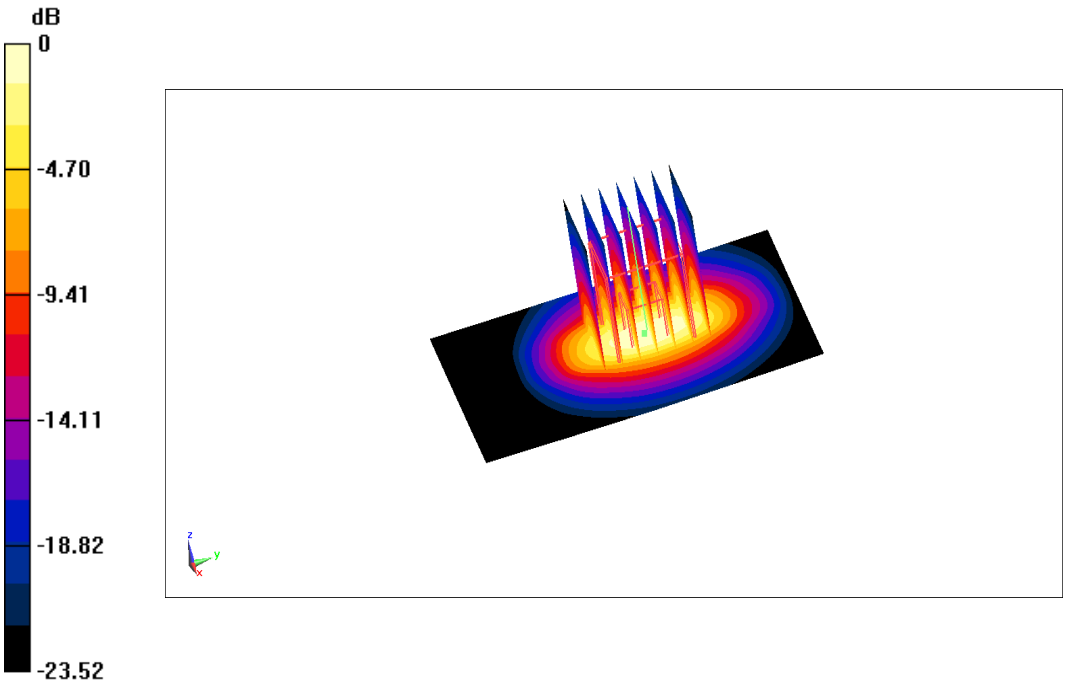
Fig.B.8validation 1900 MHz 250mW

2600 MHz

Date: 5/23/2022
Electronics: DAE4 Sn549
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ =1.953 mho/m; ε_r = 38.41; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 121.78 V/m; Power Drift = -0.07
Fast SAR: SAR(1 g) = 14.04 W/kg; SAR(10 g) = 6.29 W/kg
Maximum value of SAR (interpolated) = 24.53 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =121.78 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 28.97 W/kg
SAR(1 g) = 14.49 W/kg; SAR(10 g) = 6.3 W/kg
Maximum value of SAR (measured) = 24.72 W/kg



0 dB = 24.72 W/kg = 13.93 dB W/kg

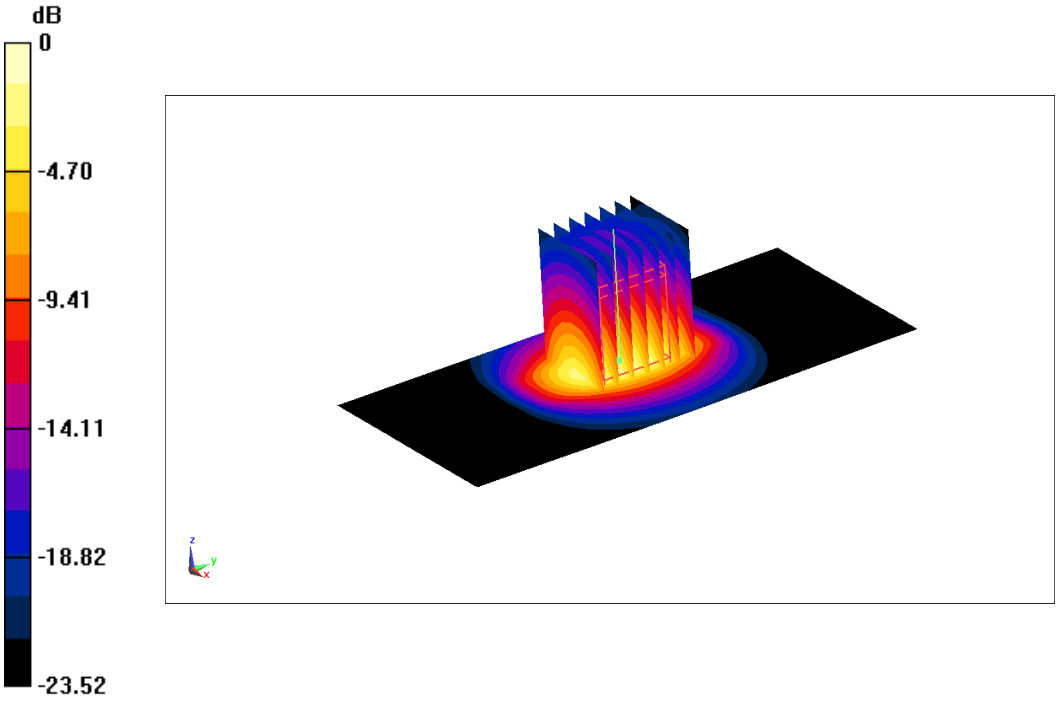
Fig.B.9 validation 2600 MHz 250mW

2600 MHz

Date: 5/24/2022
Electronics: DAE4 Sn549
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ =1.947 mho/m; ε_r = 38.87; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 119.64 V/m; Power Drift = 0.01
Fast SAR: SAR(1 g) = 14.26 W/kg; SAR(10 g) = 6.36 W/kg
Maximum value of SAR (interpolated) = 24.34 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =119.64 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 29.35 W/kg
SAR(1 g) = 14.35 W/kg; SAR(10 g) = 6.29 W/kg
Maximum value of SAR (measured) = 24.2 W/kg



0 dB = 24.2 W/kg = 13.84 dB W/kg

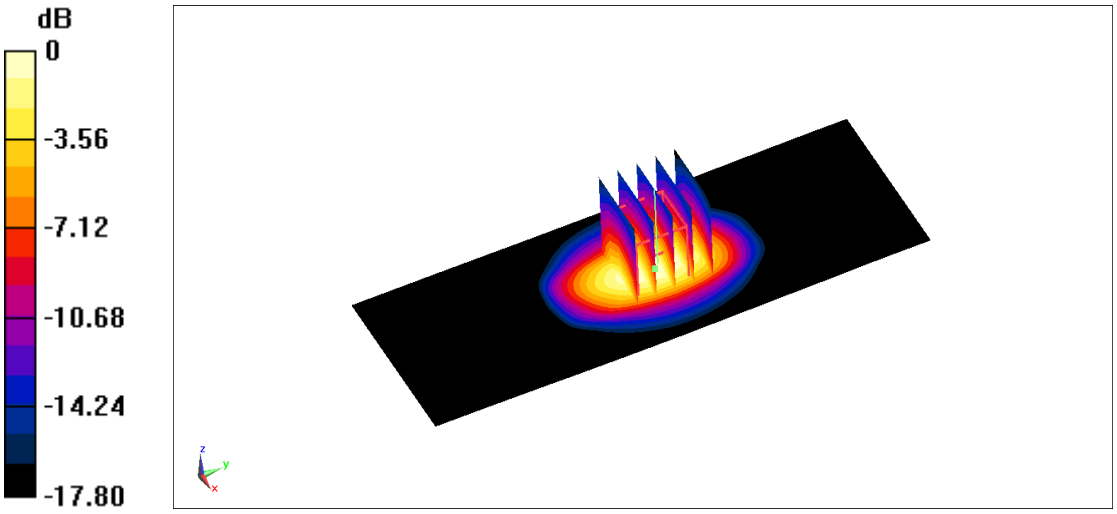
Fig.B.10 validation 2600 MHz 250mW

1750 MHz

Date: 5/19/2022
Electronics: DAE4 Sn549
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.381 mho/m; ε_r = 40.21; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 105.26 V/m; Power Drift = -0.1
Fast SAR: SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.84 W/kg
Maximum value of SAR (interpolated) = 14.06 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =105.26 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 17.01 W/kg
SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.85 W/kg
Maximum value of SAR (measured) = 14.35 W/kg



0 dB = 14.35 W/kg = 11.57 dB W/kg

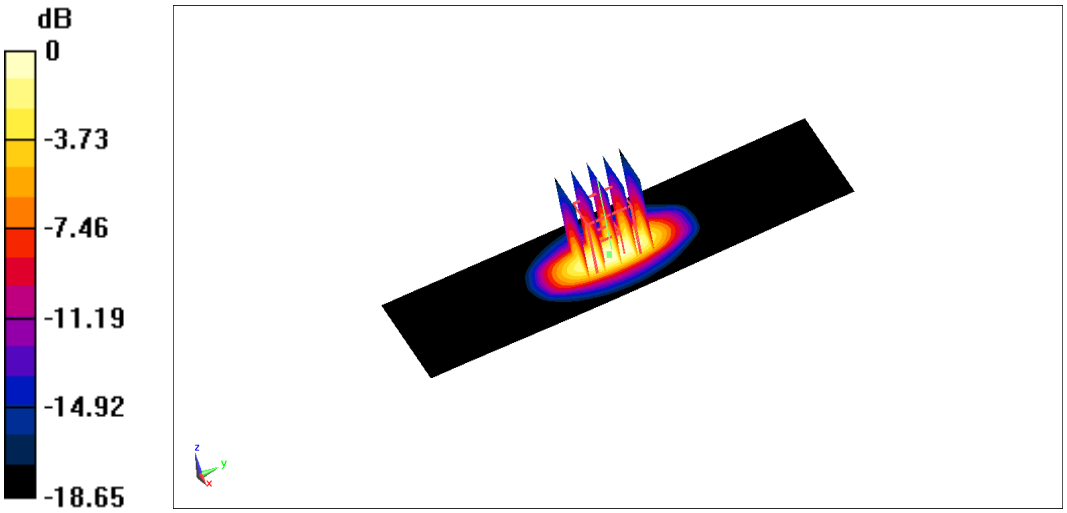
Fig.B.11 validation 1750 MHz 250mW

1900 MHz

Date: 5/20/2022
Electronics: DAE4 Sn549
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.375 mho/m; ε_r = 39.95; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 109.43 V/m; Power Drift = -0.05
Fast SAR: SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.23 W/kg
Maximum value of SAR (interpolated) = 15.27 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =109.43 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 18.44 W/kg
SAR(1 g) = 9.98 W/kg; SAR(10 g) = 5.1 W/kg
Maximum value of SAR (measured) = 14.96 W/kg



0 dB = 14.96 W/kg = 11.75 dB W/kg

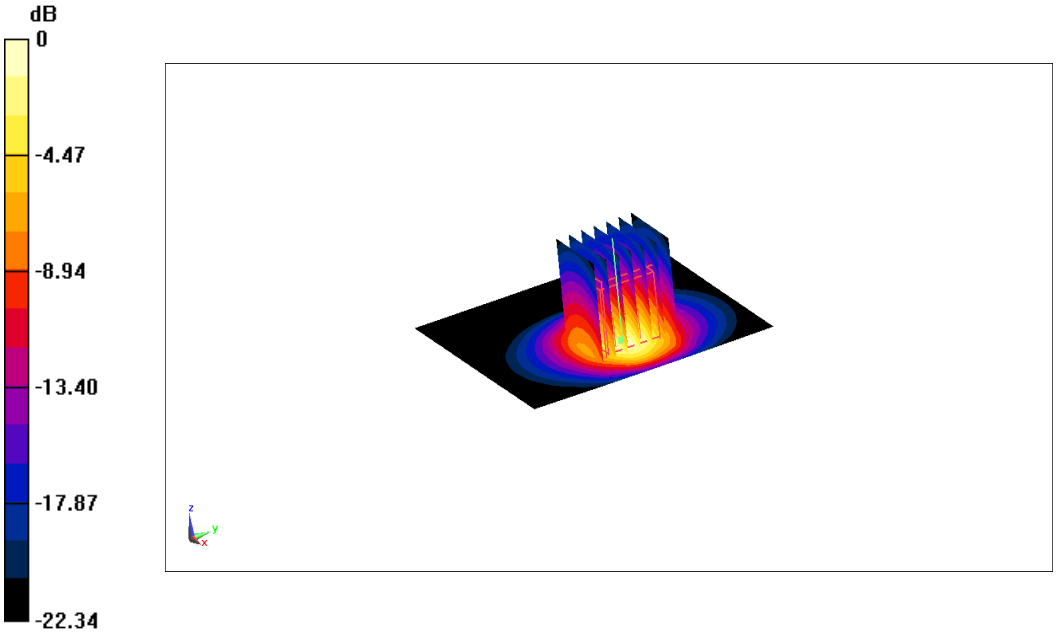
Fig.B.12 validation 1900 MHz 250Mw

2450 MHz

Date: 5/25/2022
Electronics: DAE4 Sn549
Medium: Head 2450 MHz
Medium parameters used: f = 2450 MHz; σ =1.813 mho/m; ε_r = 39.22; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC Liquid Temperature: 22.3ºC
Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.77,7.77,7.77)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 117.51 V/m; Power Drift = -0.05
Fast SAR: SAR(1 g) = 12.89 W/kg; SAR(10 g) = 6.09 W/kg
Maximum value of SAR (interpolated) = 22.09 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =117.51 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 25.93 W/kg
SAR(1 g) = 12.94 W/kg; SAR(10 g) = 6.07 W/kg
Maximum value of SAR (measured) = 21.84 W/kg



0 dB = 21.84 W/kg = 13.39 dB W/kg

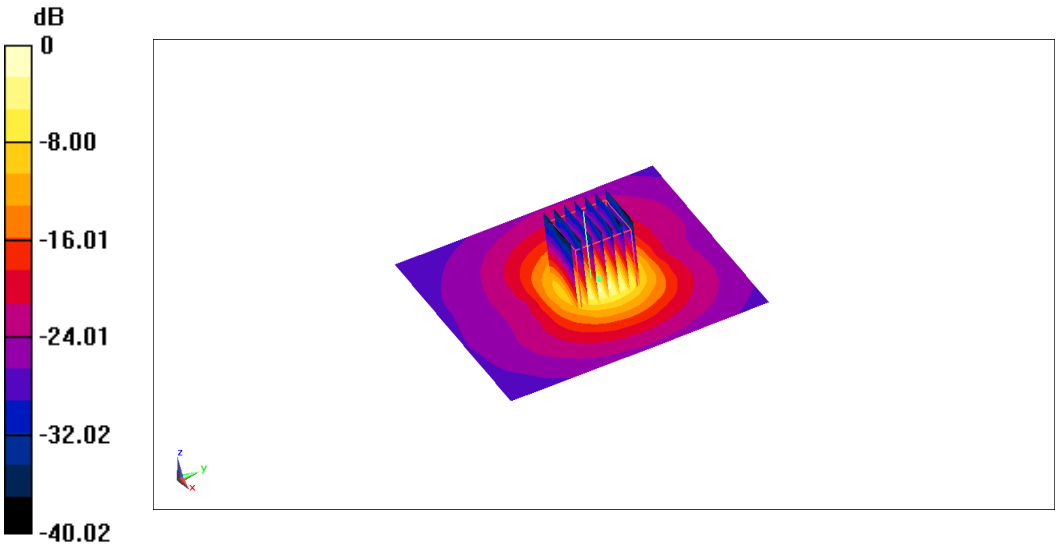
Fig.B.13 validation 2450 MHz 250m

5250 MHz

Date: 5/26/2022
Electronics: DAE4 Sn549
Medium: Head 5250 MHz
Medium parameters used: f = 5250 MHz; σ =4.711 mho/m; ε_r = 35.37; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 5250 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.43,5.43,5.43)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.04 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =78.94 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 27.66 W/kg
SAR(1 g) = 19.72 W/kg; SAR(10 g) = 5.76 W/kg
Maximum value of SAR (measured) = 18.64 W/kg



0 dB = 18.64 W/kg = 12.7 dB W/kg

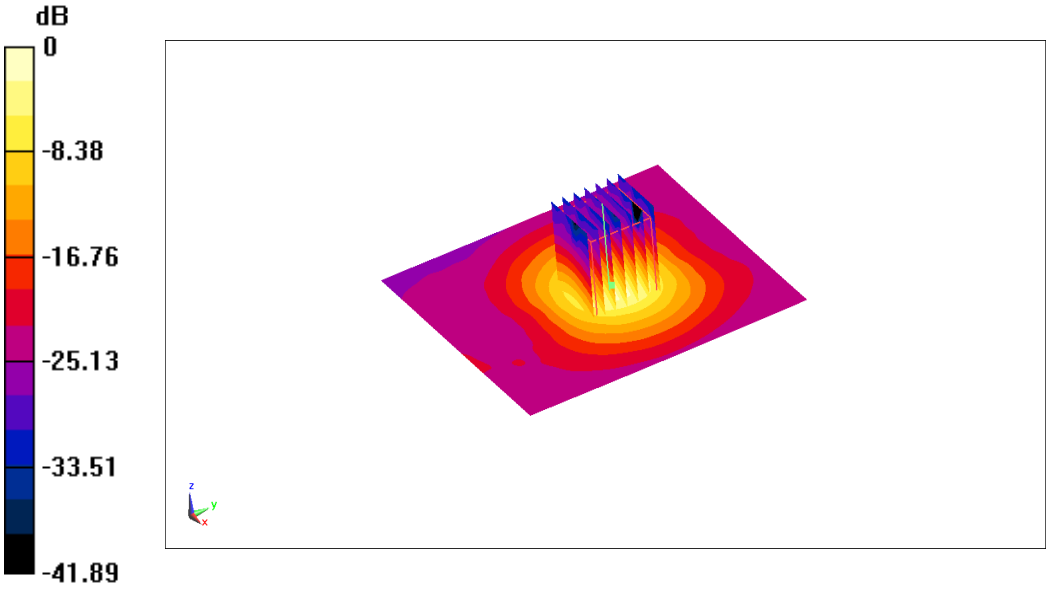
Fig.B.14 validation 5250 MHz 100mW

5600 MHz

Date: 5/27/2022
Electronics: DAE4 Sn549
Medium: Head 5600 MHz
Medium parameters used: f = 5600 MHz; σ =5.061 mho/m; ε_r = 35.03; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.11,5.11,5.11)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.28 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =80.24 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 31.48 W/kg
SAR(1 g) = 20.9 W/kg; SAR(10 g) = 6 W/kg
Maximum value of SAR (measured) = 20.15 W/kg



0 dB = 20.15 W/kg = 13.04 dB W/kg

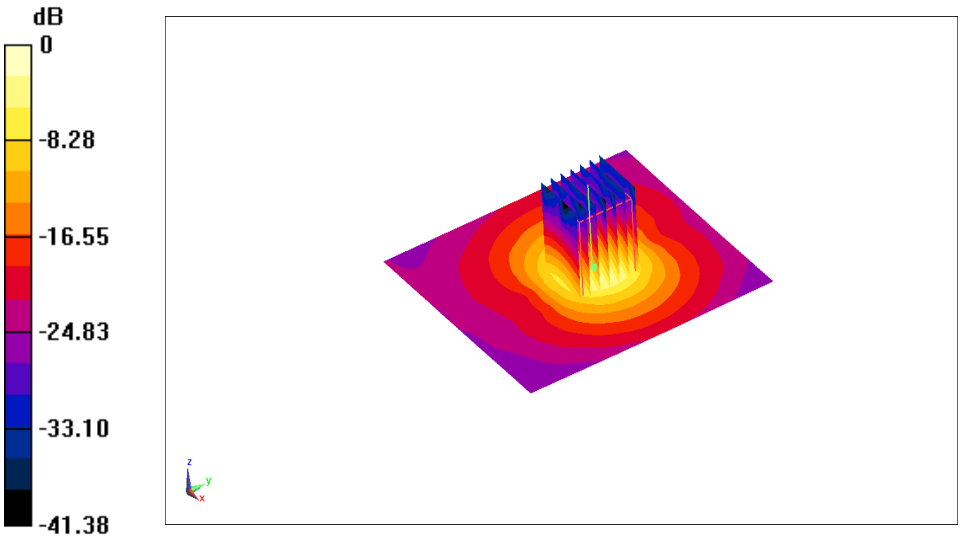
Fig.B.15 validation 5600 MHz 100mW

5750 MHz

Date: 5/28/2022
Electronics: DAE4 Sn549
Medium: Head 5750 MHz
Medium parameters used: f = 5750 MHz; σ =5.173 mho/m; ε_r = 35.02; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 5750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.85,4.85,4.85)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.85 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =74.27 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 31.76 W/kg
SAR(1 g) = 19.86 W/kg; SAR(10 g) = 5.7 W/kg
Maximum value of SAR (measured) = 20.24 W/kg



0 dB = 20.24 W/kg = 13.06 dB W/kg

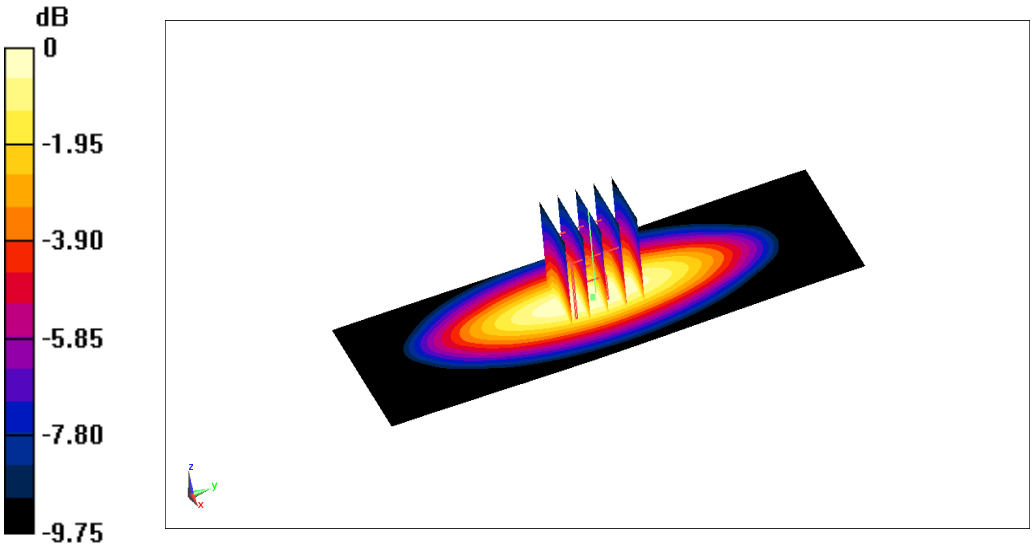
Fig.B.16 validation 5750 MHz 100m

750 MHz

Date: 2022/5/23
Electronics: DAE4 Sn536
Medium: Head 750 MHz
Medium parameters used: f = 750 MHz; σ =0.897 mho/m; ε_r = 42.07; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 58.99 V/m; Power Drift = -0.1
Fast SAR: SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.4 W/kg
Maximum value of SAR (interpolated) = 2.81 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =58.99 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 3.3 W/kg
SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.4 W/kg
Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.92 W/kg = 4.65 dB W/kg

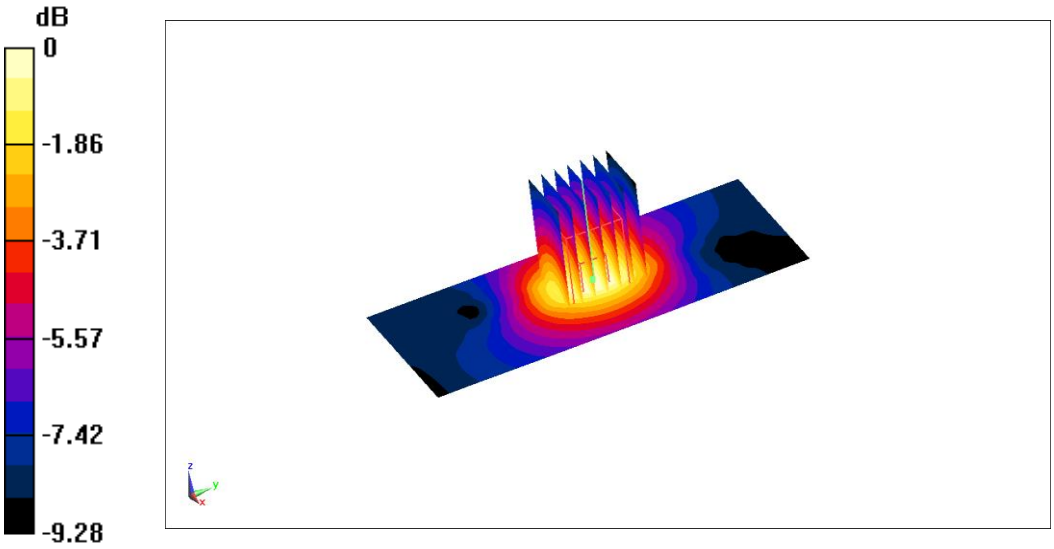
Fig.B.17 validation 750 MHz 250mW

3500 MHz

Date: 2022/5/27
Electronics: DAE4 Sn536
Medium: Body 3500 MHz
Medium parameters used: f = 3500 MHz; σ =0.891 mho/m; ε_r = 41.59; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 3500 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 106.36 V/m; Power Drift = 0.05
Fast SAR: SAR(1 g) = 16.77 W/kg; SAR(10 g) = 6.37 W/kg
Maximum value of SAR (interpolated) = 38 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =106.36 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 50.01 W/kg
SAR(1 g) = 17.14 W/kg; SAR(10 g) = 6.19 W/kg
Maximum value of SAR (measured) = 34.41 W/kg



0 dB = 34.41 W/kg = 15.37 dB W/kg

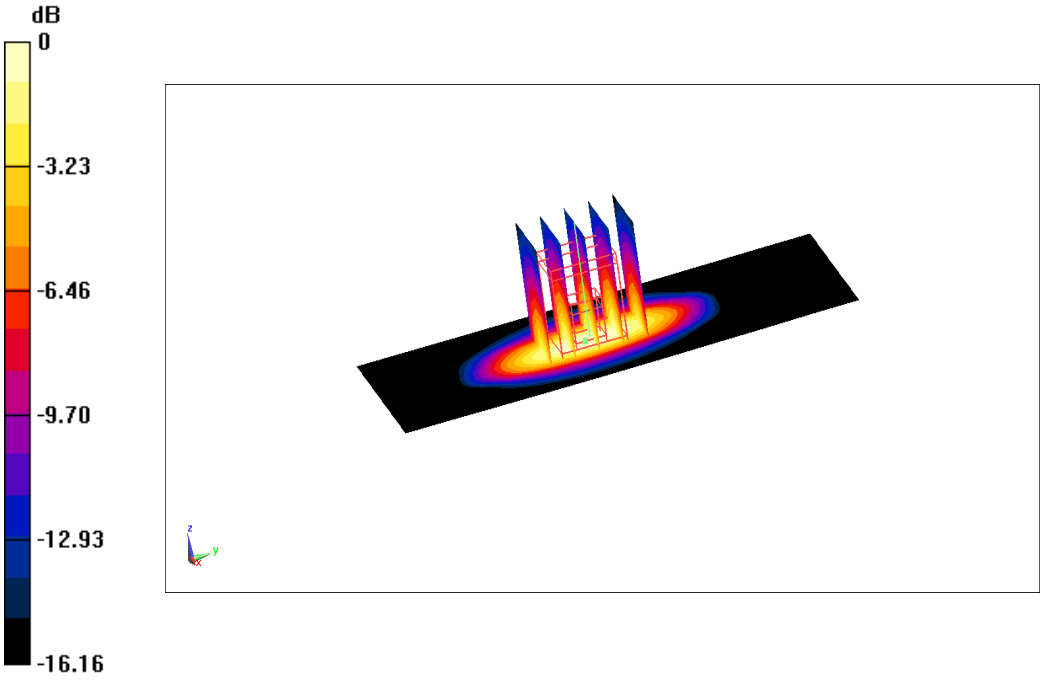
Fig.B.18 validation 3500 MHz 250mW

1750 MHz

Date: 2022/5/24
Electronics: DAE4 Sn536
Medium: Head 1750 MHz
Medium parameters used: f = 1750 MHz; σ =1.346 mho/m; ε_r = 40.03; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 106.62 V/m; Power Drift = -0.05
Fast SAR: SAR(1 g) = 9.16 W/kg; SAR(10 g) = 4.85 W/kg
Maximum value of SAR (interpolated) = 14.15 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =106.62 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 17.02 W/kg
SAR(1 g) = 9.2 W/kg; SAR(10 g) = 4.73 W/kg
Maximum value of SAR (measured) = 13.88 W/kg



0 dB = 13.88 W/kg = 11.42 dB W/kg

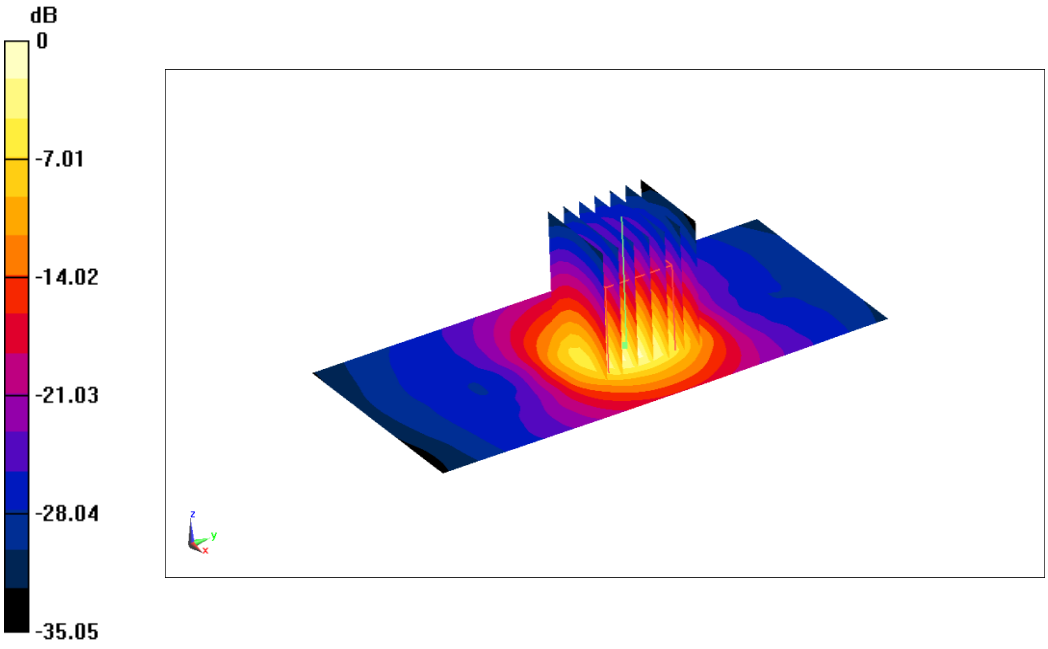
Fig.B.19 validation 1750 MHz 250mW

3900 MHz

Date: 2022/5/28
Electronics: DAE4 Sn536
Medium: Body 3900 MHz
Medium parameters used: f = 3900 MHz; σ =1.375 mho/m; ε_r = 39.76; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 3900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 65.22 V/m; Power Drift = -0.04
Fast SAR: SAR(1 g) = 17.66 W/kg; SAR(10 g) = 5.96 W/kg
Maximum value of SAR (interpolated) = 35.11 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =65.22 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 46.39 W/kg
SAR(1 g) = 17.66 W/kg; SAR(10 g) = 6.03 W/kg
Maximum value of SAR (measured) = 32.44 W/kg



0 dB = 32.44 W/kg = 15.11 dB W/kg

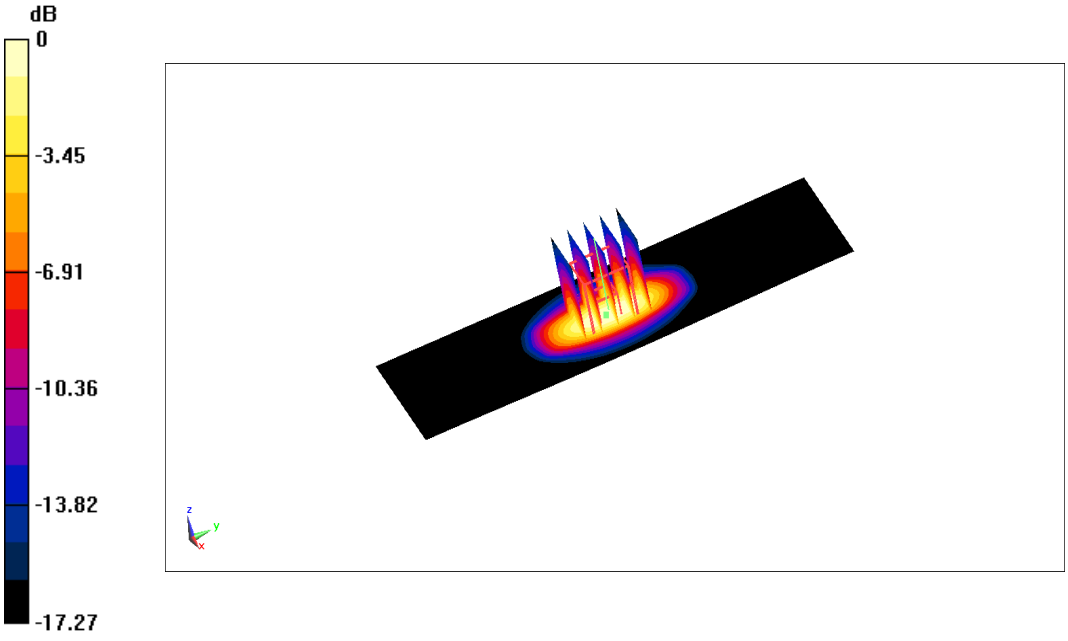
Fig.B.20 validation 3900 MHz 250mW

1900 MHz

Date: 2022/5/25
Electronics: DAE4 Sn536
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ =1.404 mho/m; ε_r = 39.36; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 107.96 V/m; Power Drift = -0.04
Fast SAR: SAR(1 g) = 10.09 W/kg; SAR(10 g) = 5.1 W/kg
Maximum value of SAR (interpolated) = 15.24 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value =107.96 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 18.06 W/kg
SAR(1 g) = 9.77 W/kg; SAR(10 g) = 5.13 W/kg
Maximum value of SAR (measured) = 15.33 W/kg



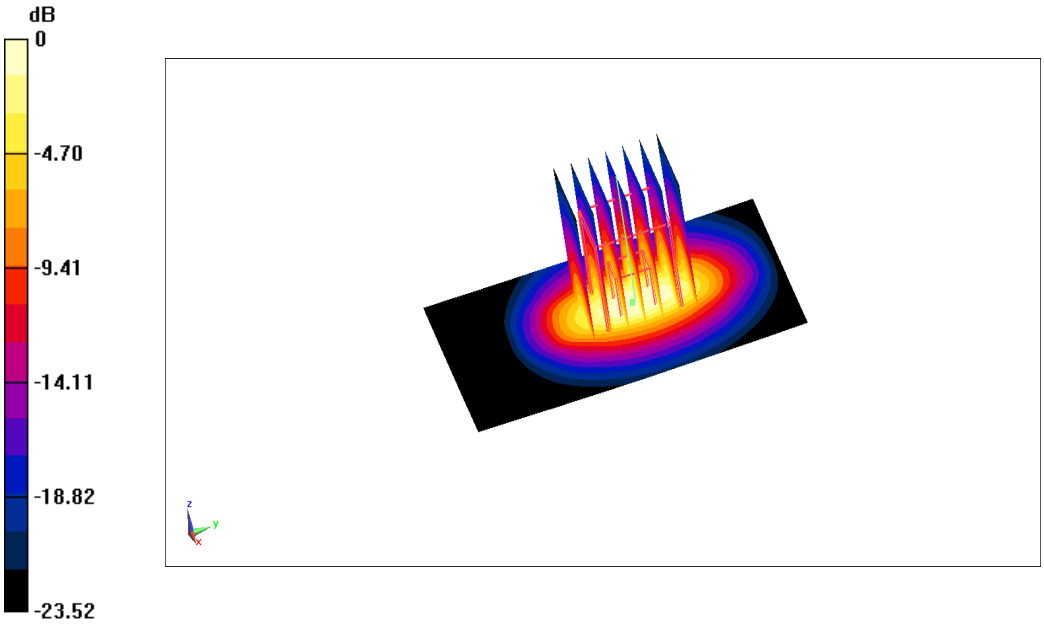
0 dB = 15.33 W/kg = 11.86 dB W/kg
Fig.B.21 validation 1900 MHz 250m

2600 MHz

Date: 2022/5/26
Electronics: DAE4 Sn536
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ =1.935 mho/m; ε_r = 38.36; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.18,8.18,8.18)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 123.17 V/m; Power Drift = 0.06
Fast SAR: SAR(1 g) = 14.33 W/kg; SAR(10 g) = 6.31 W/kg
Maximum value of SAR (interpolated) = 24.71 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =123.17 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 29.05 W/kg
SAR(1 g) = 14.28 W/kg; SAR(10 g) = 6.43 W/kg
Maximum value of SAR (measured) = 23.93 W/kg



0 dB = 23.93 W/kg = 13.79 dB W/kg

Fig.B.22 validation 2600 MHz 250mW

ANNEX K Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT
Beijing
China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2021-09-29 through 2022-09-30
Effective Dates

For the National Voluntary Laboratory Accreditation Program