

Body

ANT	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)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift
13	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Front	10mm	\	23.09	24	0.150	0.18	0.067	0.08	0.07
13	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Rear	10mm	Fig.A-77	23.09	24	0.191	0.24	0.085	0.10	-0.01
13	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Left	10mm	\	23.09	24	0.076	0.09	0.034	0.04	0.05
13	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Top	10mm	\	23.09	24	0.166	0.20	0.068	0.08	-0.03
13	Body	N5	165300	826.5	15k 5M CP-OFDM QPSK 13RB-6 23dB	Rear	10mm	\	21.60	22.5	0.122	0.15	0.055	0.07	0.04
41	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Front	10mm	\	23.06	24	0.138	0.17	0.089	0.11	-0.14
41	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Rear	10mm	Fig.A-78	23.06	24	0.237	0.29	0.150	0.19	-0.02
41	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Left	10mm	\	23.06	24	0.133	0.17	0.086	0.11	0.07
41	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Right	10mm	\	23.06	24	<0.01	<0.01	<0.01	<0.01	/
41	Body	N5	165300	826.5	15k 5M DFT-s-OFDM QPSK 12RB-6 23dB	Bottom	10mm	\	23.06	24	0.039	0.05	0.026	0.03	0.00
41	Body	N5	165300	826.5	15k 5M CP-OFDM QPSK 13RB-6 23dB	Rear	10mm	\	21.72	22.5	0.170	0.20	0.108	0.13	-0.19
11	Body	N7	512000	2560	15k 20M DFT-s-OFDM QPSK 50RB-25 18dB	Front	10mm	\	18.44	19.3	0.082	0.10	0.038	0.05	0.03
11	Body	N7	512000	2560	15k 20M DFT-s-OFDM QPSK 50RB-25 18dB	Rear	10mm	\	18.44	19.3	0.194	0.24	0.086	0.10	0.00
11	Body	N7	512000	2560	15k 20M DFT-s-OFDM QPSK 50RB-25 18dB	Left	10mm	Fig.A-79	18.44	19.3	0.243	0.30	0.100	0.12	0.01
11	Body	N7	512000	2560	15k 20M DFT-s-OFDM QPSK 50RB-25 18dB	Top	10mm	\	18.44	19.3	<0.01	<0.01	<0.01	<0.01	/
11	Body	N7	512000	2560	15k 20M CP-OFDM QPSK 50RB-25 18dB	Left	10mm	\	18.40	19.3	0.238	0.29	0.095	0.12	-0.18
11	Body	N7	512000	2560	15k 20M DFT-s-OFDM P/2 BPSK1 50RB-25 22dB	Front	15mm	\	22.44	23.3	0.131	0.16	0.064	0.08	0.19
11	Body	N7	512000	2560	15k 20M DFT-s-OFDM P/2 BPSK1 50RB-25 22dB	Rear	15mm	Fig.A-80	22.44	23.3	0.268	0.33	0.130	0.16	0.01
11	Body	N7	512000	2560	15k 20M CP-OFDM QPSK 53RB-26 22dB	Rear	15mm	\	21.87	23.3	0.235	0.33	0.113	0.16	-0.07
13	Body	N7	512000	2560	15k 20M CP-OFDM QPSK 53RB-26 15dB	Front	10mm	\	14.94	16.3	0.106	0.14	0.051	0.07	0.17
13	Body	N7	512000	2560	15k 20M CP-OFDM QPSK 53RB-26 15dB	Rear	10mm	Fig.A-81	14.94	16.3	0.208	0.28	0.090	0.12	-0.09
13	Body	N7	512000	2560	15k 20M CP-OFDM QPSK 53RB-26 15dB	Left	10mm	\	14.94	16.3	0.078	0.11	0.038	0.05	0.13
13	Body	N7	512000	2560	15k 20M CP-OFDM QPSK 53RB-26 15dB	Top	10mm	\	14.94	16.3	0.152	0.21	0.061	0.08	0.01
13	Body	N7	512000	2560	15k 20M DFT-s-OFDM QPSK 50RB-25 15dB	Rear	10mm	\	14.92	16.3	0.199	0.27	0.083	0.11	-0.02
13	Body	N7	512000	2560	15k 20M DFT-s-OFDM P/2 BPSK1 100RB-0 22dB	Front	15mm	\	21.86	23.3	0.262	0.37	0.138	0.19	-0.12
13	Body	N7	512000	2560	15k 20M DFT-s-OFDM P/2 BPSK1 100RB-0 22dB	Rear	15mm	Fig.A-82	21.86	23.3	0.473	0.66	0.228	0.32	0.04
13	Body	N7	512000	2560	15k 20M CP-OFDM QPSK 106RB-0 22dB	Rear	15mm	\	21.35	23.3	0.288	0.45	0.138	0.22	0.14
11	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 16.5dB	Front	10mm	\	17.66	17.9	0.098	0.10	0.045	0.05	-0.03
11	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 16.5dB	Rear	10mm	\	17.66	17.9	0.189	0.20	0.085	0.09	0.08
11	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 16.5dB	Left	10mm	Fig.A-83	17.66	17.9	0.343	0.36	0.140	0.15	-0.04
11	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 16.5dB	Top	10mm	\	17.66	17.9	<0.01	<0.01	<0.01	<0.01	/
11	Body	N41	537000	2685	30k 10M DFT-s-OFDM 16QAM 1RB-1 16.5dB	Left	10mm	\	17.57	17.9	0.310	0.33	0.129	0.14	-0.14
11	Body	N41	537000	2685	30k 10M DFT-s-OFDM P/2 BPSK1 12RB-6 23dB	Front	15mm	\	24.09	24.4	0.249	0.27	0.118	0.13	-0.16
11	Body	N41	537000	2685	30k 10M DFT-s-OFDM P/2 BPSK1 12RB-6 23dB	Rear	15mm	Fig.A-84	24.09	24.4	0.514	0.55	0.241	0.26	0.07
11	Body	N41	537000	2685	30k 10M CP-OFDM QPSK 12RB-6 23dB	Rear	15mm	\	23.50	24.4	0.409	0.50	0.191	0.23	0.10
13	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 21dB	Front	10mm	\	21.54	22	0.496	0.55	0.258	0.29	0.06
13	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 21dB	Rear	10mm	\	21.54	22	0.661	0.73	0.313	0.35	-0.09
13	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 21dB	Left	10mm	\	21.54	22	0.588	0.65	0.293	0.33	-0.19
13	Body	N41	537000	2685	30k 10M CP-OFDM 16QAM 1RB-1 21dB	Top	10mm	Fig.A-85	21.54	22	0.662	0.74	0.283	0.31	0.08
13	Body	N41	537000	2685	30k 10M DFT-s-OFDM 16QAM 1RB-1 21dB	Top	10mm	\	21.43	22	0.542	0.62	0.232	0.26	-0.14
11	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 1RB-1 14.5dB	Front	10mm	\	15.64	16.5	0.137	0.17	0.054	0.07	0.13
11	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 1RB-1 14.5dB	Rear	10mm	\	15.64	16.5	0.087	0.11	0.035	0.04	0.04
11	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 1RB-1 14.5dB	Left	10mm	Fig.A-86	15.64	16.5	0.331	0.40	0.111	0.14	-0.08
11	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 1RB-1 14.5dB	Top	10mm	\	15.64	16.5	0.038	0.05	0.015	0.02	0.16
11	Body	N78	647000	3705	30k 10M DFT-s-OFDM 16QAM 1RB-1 14.5dB	Left	10mm	\	15.59	16.5	0.285	0.35	0.099	0.12	-0.07
11	Body	N78	621668	3325.02	30k 50M DFT-s-OFDM P/2 BPSK1 64RB-32 22dB	Front	15mm	\	22.92	23.5	0.229	0.26	0.091	0.10	-0.01
11	Body	N78	621668	3325.02	30k 50M DFT-s-OFDM P/2 BPSK1 64RB-32 22dB	Rear	15mm	Fig.A-87	22.92	23.5	0.349	0.40	0.144	0.16	0.08
11	Body	N78	621668	3325.02	30k 50M CP-OFDM QPSK 64RB-32 22dB	Rear	15mm	\	22.57	23.5	0.308	0.38	0.125	0.15	-0.19
12	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 12RB-6 17.5dB	Front	10mm	\	17.62	18.5	0.082	0.10	0.034	0.04	0.11
12	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 12RB-6 17.5dB	Rear	10mm	Fig.A-88	17.62	18.5	0.132	0.16	0.049	0.06	0.09
12	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 12RB-6 17.5dB	Left	10mm	\	17.62	18.5	0.077	0.09	0.030	0.04	0.00
12	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 12RB-6 17.5dB	Top	10mm	\	17.62	18.5	0.117	0.14	0.037	0.05	0.16
12	Body	N78	647000	3705	30k 10M DFT-s-OFDM 16QAM 12RB-6 17.5dB	Rear	10mm	\	17.54	18.5	0.128	0.16	0.046	0.06	-0.11
12	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 1RB-22 19dB	Front	15mm	\	19.17	20	0.051	0.06	0.020	0.02	-0.19
12	Body	N78	647000	3705	30k 10M CP-OFDM 16QAM 1RB-22 19dB	Rear	15mm	Fig.A-89	19.17	20	0.052	0.06	0.019	0.02	0.09
12	Body	N78	647000	3705	30k 10M DFT-s-OFDM 16QAM 1RB-22 19dB	Rear	15mm	\	19.12	20	0.043	0.05	0.016	0.02	0.13

13.3 SAR results for WLAN

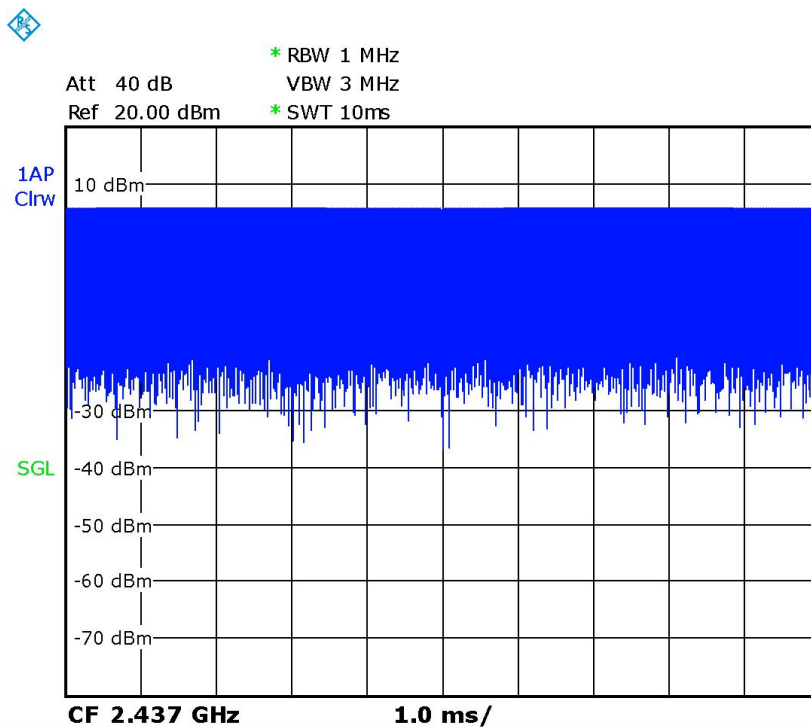
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

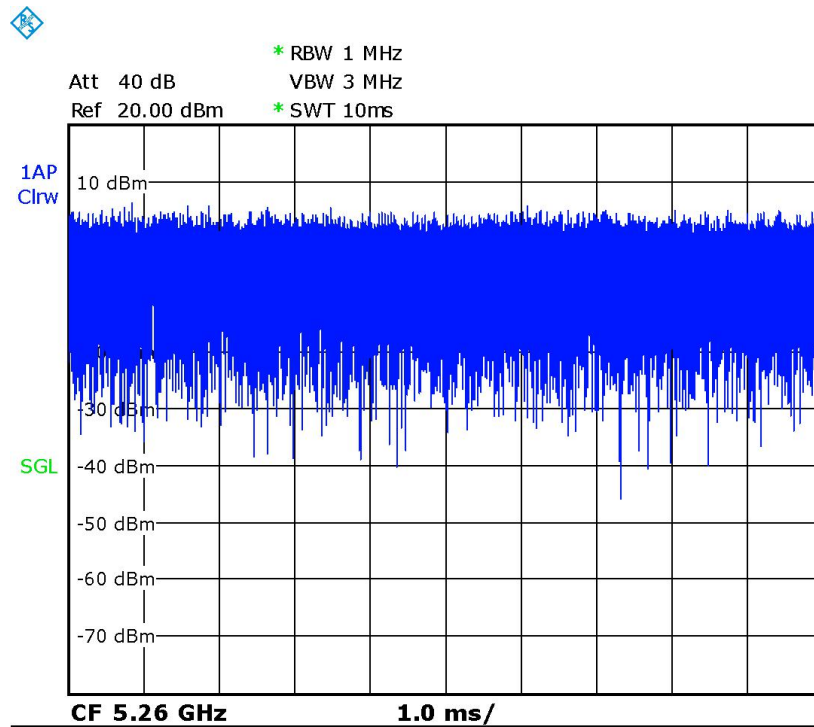
SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Duty factor plot

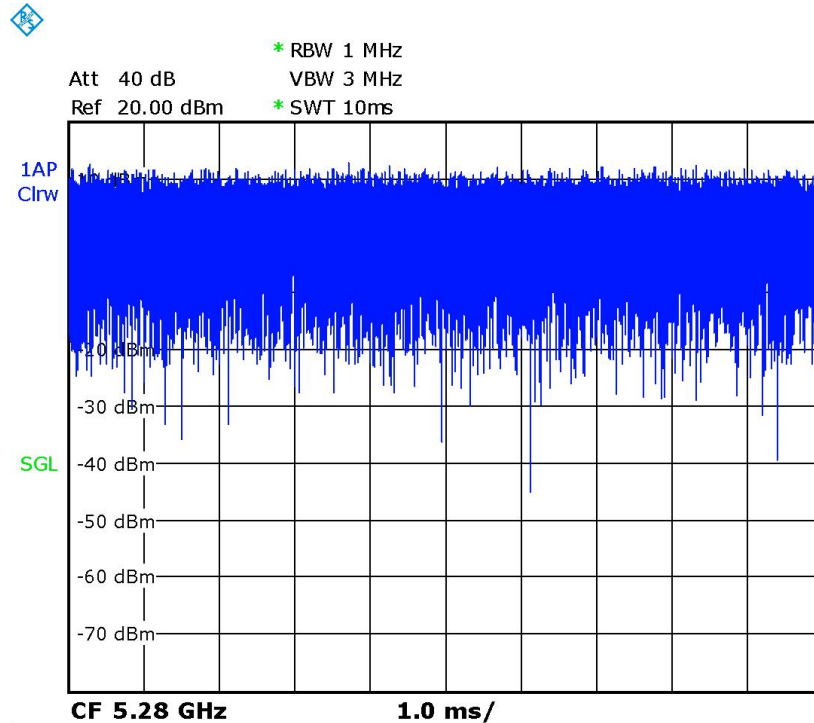
CH6



CH52



CH56



WLAN 2.4G

Test Position	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift
Head	WLAN 2.4G	6	2437	11b	Cheek Left	0mm		14.22	14.3	100%	0.185	0.19	0.082	0.08	0.06
Head	WLAN 2.4G	6	2437	11b	Tilt Left	0mm	Fig.A-90	14.22	14.3	100%	0.202	0.21	0.090	0.09	-0.05
Head	WLAN 2.4G	6	2437	11b	Cheek Right	0mm	\	14.22	14.3	100%	0.071	0.07	0.032	0.03	0.03
Head	WLAN 2.4G	6	2437	11b	Tilt Right	0mm	\	14.22	14.3	100%	0.116	0.12	0.051	0.05	0.05
Body	WLAN 2.4G	6	2437	11b	Front	10mm	\	19.52	20	100%	0.264	0.30	0.126	0.14	0.09
Body	WLAN 2.4G	6	2437	11b	Rear	10mm	Fig.A-91	19.52	20	100%	0.353	0.39	0.168	0.19	-0.19
Body	WLAN 2.4G	6	2437	11b	Right	10mm	\	19.52	20	100%	0.233	0.26	0.111	0.12	-0.11
Body	WLAN 2.4G	6	2437	11b	Top	10mm	\	19.52	20	100%	0.247	0.28	0.118	0.13	0.15
Body	WLAN 2.4G	6	2437	11b	Front	10mm	\	14.67	15	100%	0.075	0.08	0.036	0.04	0.05
Body	WLAN 2.4G	6	2437	11b	Rear	10mm	Fig.A-92	14.67	15	100%	0.117	0.13	0.055	0.06	0.03
Body	WLAN 2.4G	6	2437	11b	Right	10mm	\	14.67	15	100%	0.073	0.08	0.034	0.04	0.08
Body	WLAN 2.4G	6	2437	11b	Top	10mm	\	14.67	15	100%	0.085	0.09	0.040	0.04	-0.04

WLAN 5G

Test Position	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift
Head	WLAN 5G	52	5260	11a 6M 10dB	Cheek Left	0mm	\	10.82	12	100%	0.247	0.32	0.061	0.08	0.05
Head	WLAN 5G	52	5260	11a 6M 10dB	Tilt Left	0mm	Fig.A-93	10.82	12	100%	0.341	0.45	0.084	0.11	-0.02
Head	WLAN 5G	52	5260	11a 6M 10dB	Cheek Right	0mm	\	10.82	12	100%	0.099	0.13	0.024	0.03	0.04
Head	WLAN 5G	52	5260	11a 6M 10dB	Tilt Right	0mm	\	10.82	12	100%	0.170	0.22	0.042	0.05	0.07
Head	WLAN 5G	144	5720	11a 6M 12.5dB	Cheek Left	0mm	\	14.15	14.5	100%	0.250	0.27	0.062	0.07	-0.06
Head	WLAN 5G	144	5720	11a 6M 12.5dB	Tilt Left	0mm	\	14.15	14.5	100%	0.210	0.23	0.052	0.06	0.09
Head	WLAN 5G	144	5720	11a 6M 12.5dB	Cheek Right	0mm	\	14.15	14.5	100%	0.119	0.13	0.029	0.03	0.05
Head	WLAN 5G	144	5720	11a 6M 12.5dB	Tilt Right	0mm	\	14.15	14.5	100%	0.120	0.13	0.030	0.03	-0.11
Head	WLAN 5G	153	5765	11a 6M 12.5dB	Cheek Left	0mm	\	13.5	14.5	100%	0.276	0.35	0.068	0.09	0.04
Head	WLAN 5G	153	5765	11a 6M 12.5dB	Tilt Left	0mm	\	13.5	14.5	100%	0.260	0.33	0.064	0.08	0.09
Head	WLAN 5G	153	5765	11a 6M 12.5dB	Cheek Right	0mm	\	13.5	14.5	100%	0.106	0.13	0.026	0.03	0.12
Head	WLAN 5G	153	5765	11a 6M 12.5dB	Tilt Right	0mm	\	13.5	14.5	100%	0.127	0.16	0.031	0.04	0.03
Body	WLAN 5G	52	5260	11a 6M 17dB	Front	10mm	\	17.82	19	100%	0.228	0.30	0.078	0.10	0.06
Body	WLAN 5G	52	5260	11a 6M 17dB	Rear	10mm	\	17.82	19	100%	0.361	0.47	0.123	0.16	0.08
Body	WLAN 5G	52	5260	11a 6M 17dB	Right	10mm	\	17.82	19	100%	0.339	0.44	0.116	0.15	0.05
Body	WLAN 5G	52	5260	11a 6M 17dB	Top	10mm	\	17.82	19	100%	0.676	0.89	0.231	0.30	-0.08
Body	WLAN 5G	56	5280	11a 6M 17dB	Top	10mm	Fig.A-94	17.55	19	100%	0.697	0.97	0.239	0.33	0.05
Body	WLAN 5G	144	5720	11a 6M 17dB	Front	10mm	\	18.55	19	100%	0.183	0.20	0.063	0.07	0.06
Body	WLAN 5G	144	5720	11a 6M 17dB	Rear	10mm	\	18.55	19	100%	0.150	0.17	0.051	0.06	0.11
Body	WLAN 5G	144	5720	11a 6M 17dB	Right	10mm	\	18.55	19	100%	0.219	0.24	0.075	0.08	-0.09
Body	WLAN 5G	144	5720	11a 6M 17dB	Top	10mm	\	18.55	19	100%	0.302	0.33	0.103	0.11	0.08
Body	WLAN 5G	153	5765	11a 6M 17dB	Front	10mm	\	18.04	19	100%	0.192	0.24	0.066	0.08	0.04
Body	WLAN 5G	153	5765	11a 6M 17dB	Rear	10mm	\	18.04	19	100%	0.140	0.18	0.048	0.06	0.09
Body	WLAN 5G	153	5765	11a 6M 17dB	Right	10mm	\	18.04	19	100%	0.187	0.23	0.064	0.08	-0.12
Body	WLAN 5G	153	5765	11a 6M 17dB	Top	10mm	\	18.04	19	100%	0.184	0.23	0.063	0.08	0.06
Body	WLAN 5G	52	5260	11a 6M 12.5dB	Front	10mm	\	13.38	14.5	100%	0.057	0.07	0.019	0.02	0.05
Body	WLAN 5G	52	5260	11a 6M 12.5dB	Rear	10mm	\	13.38	14.5	100%	0.087	0.11	0.029	0.04	0.06
Body	WLAN 5G	52	5260	11a 6M 12.5dB	Right	10mm	\	13.38	14.5	100%	0.077	0.10	0.026	0.03	0.04
Body	WLAN 5G	52	5260	11a 6M 12.5dB	Top	10mm	Fig.A-95	13.38	14.5	100%	0.238	0.31	0.080	0.10	-0.03
Body	WLAN 5G	144	5720	11a 6M 15.5dB	Front	10mm	\	17.32	17.5	100%	0.096	0.10	0.032	0.03	0.08
Body	WLAN 5G	144	5720	11a 6M 15.5dB	Rear	10mm	\	17.32	17.5	100%	0.099	0.10	0.033	0.03	0.07
Body	WLAN 5G	144	5720	11a 6M 15.5dB	Right	10mm	\	17.32	17.5	100%	0.119	0.12	0.040	0.04	-0.06
Body	WLAN 5G	144	5720	11a 6M 15.5dB	Top	10mm	\	17.32	17.5	100%	0.125	0.13	0.042	0.04	0.09
Body	WLAN 5G	153	5765	11a 6M 15.5dB	Front	10mm	\	16.58	17.5	100%	0.130	0.16	0.044	0.05	0.13
Body	WLAN 5G	153	5765	11a 6M 15.5dB	Rear	10mm	\	16.58	17.5	100%	0.102	0.13	0.034	0.04	0.08
Body	WLAN 5G	153	5765	11a 6M 15.5dB	Right	10mm	\	16.58	17.5	100%	0.117	0.14	0.039	0.05	-0.08
Body	WLAN 5G	153	5765	11a 6M 15.5dB	Top	10mm	\	16.58	17.5	100%	0.152	0.19	0.051	0.06	0.05

13.4 SAR results for BT

Test Position	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)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift
Head	BT	78	2480	GFSK	Cheek Left	0mm	Fig.A-96	10.16	11	0.092	0.11	0.041	0.05	0.09
Head	BT	78	2480	GFSK	Tilt Left	0mm	\	10.16	11	0.074	0.09	0.033	0.04	0.13
Head	BT	78	2480	GFSK	Cheek Right	0mm	\	10.16	11	0.035	0.04	0.016	0.02	-0.07
Head	BT	78	2480	GFSK	Tilt Right	0mm	\	10.16	11	0.025	<0.01	0.011	<0.01	/
Body	BT	78	2480	GFSK	Front	10mm	\	10.16	11	<0.01	<0.01	<0.01	<0.01	/
Body	BT	78	2480	GFSK	Rear	10mm	Fig.A-97	10.16	11	0.023	0.03	0.011	0.01	0.02
Body	BT	78	2480	GFSK	Right	10mm	\	10.16	11	<0.01	<0.01	<0.01	<0.01	/
Body	BT	78	2480	GFSK	Top	10mm	\	10.16	11	<0.01	<0.01	<0.01	<0.01	/

13.5 SAR results for Phablet

According to the KDB648474 D04, for smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. The normal tablet procedures in KDB Publication 616217 are required when the overall diagonal dimension of the device is > 20.0 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Extremity 10-g SAR is also not required for the front (top) surface of larger form factor full size tablets. The more conservative normal tablet SAR results can be used to support phablet mode 10-g extremity SAR.
3. The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions

For the device of this project, the display diagonal dimension is 170.349 cm (> 15.0 cm) and the overall diagonal dimension is 174.45 cm (> 16.0 cm), so this device is a phone as “phablet”.

14 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

15 Evaluation of Simultaneous

15.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as WLAN and Bluetooth devices which may simultaneously transmit with the licensed transmitter. KDB 447498 D01 provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

15.1.1 Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

15.1.2 SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR1 + SAR2)^{1.5} / Ri$$

Where:

SAR1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition.

SAR2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first .

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$$[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR1 + SAR2)^{1.5} / Ri \leq 0.04$$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest reported SAR for the frequency bands should be used to determine SAR1 or SAR2. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

15.2 Simultaneous Transmission Capabilities

The simultaneous transmission possibilities for this device are listed as below:

Capable Transmit Configurations	Head	Body-worn	Hotspot
WWAN+WLAN2.4G	Yes	Yes	Yes
WWAN+WLAN5G	Yes	Yes	Yes
WWAN+BT	Yes	Yes	Yes
WWAN+WLAN5G+BT	Yes	Yes	Yes

Note:

- The reported SAR summation is calculated based on the same configuration and test position.
- For the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR, we determined the SAR of this edges were less than 0.01. For the convenience of simultaneous transmission calculation, all SAR values less than or equal to 0.01 are uniformly written as 0.00

15.3 SAR Simultaneous Transmission Analysis

The sum of reported SAR values for 2/3/4G ANT13+WiFi+BT

reported SAR 1g (W/kg)																			
Head		CDMA BC0	GSM850	GSM1900	WCDMA 1900	WCDMA 1700	WCDMA 850	LTE Band2	LTE Band4	LTE Band5	LTE Band7	LTE Band12	LTE Band38	LTE Band41	2.4G	5G	BT	Cellular + WiF2.4G	Cellular + WiF5G + BT
Cheek	L	0.32	0.13	0.26	0.54	0.53	0.20	0.46	0.35	0.22	0.26	0.16	0.27	0.24	0.19	0.35	0.11	0.73	1.00
	Tilt	0.32	0.13	0.31	0.65	0.64	0.18	0.56	0.41	0.19	0.36	0.15	0.37	0.26	0.21	0.45	0.09	0.86	1.19
	R	0.35	0.18	0.33	0.59	0.58	0.24	0.55	0.47	0.24	0.38	0.17	0.48	0.38	0.07	0.13	0.04	0.66	0.76
	Tilt	0.42	0.14	0.44	0.77	0.75	0.21	0.66	0.57	0.23	0.51	0.22	0.60	0.38	0.12	0.22	0.00	0.89	0.99
Body		CDMA BC0	GSM850	GSM1900	WCDMA 1900	WCDMA 1700	WCDMA 850	LTE Band2	LTE Band4	LTE Band5	LTE Band7	LTE Band12	LTE Band38	LTE Band41	2.4G	5G	BT	Cellular + WiF2.4G	Cellular + WiF5G + BT
Front	10mm	0.18	0.34	0.25	0.27	0.19	0.26	0.26	0.22	0.19	0.16	0.11	0.11	0.08	0.08	0.16	0.00	0.42	0.43
	10mm	0.21	0.43	0.29	0.33	0.19	0.33	0.29	0.21	0.21	0.29	0.14	0.20	0.14	0.13	0.13	0.03	0.56	0.49
	Left	0.00	0.18	0.06	0.07	0.00	0.15	0.07	0.06	0.09	0.14	0.06	0.12	0.09	0.00	0.00	0.00	0.18	0.15
	Right	0.11	0.13	0.00	0.00	0.00	0.07	0.00	0.00	0.07	0.04	0.07	0.00	0.02	0.08	0.14	0.00	0.21	0.22
Bottom	10mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Top	0.17	0.28	0.55	0.56	0.38	0.23	0.51	0.42	0.21	0.45	0.13	0.28	0.16	0.09	0.31	0.00	0.65	0.87
Body		CDMA BC0	GSM850	GSM1900	WCDMA 1900	WCDMA 1700	WCDMA 850	LTE Band2	LTE Band4	LTE Band5	LTE Band7	LTE Band12	LTE Band38	LTE Band41	2.4G	5G	BT	Cellular + WiF2.4G	Cellular + WiF5G + BT
Front	15mm	0.18	0.34	0.47	0.32	0.37	0.26	0.42	0.55	0.19	0.41	0.11	0.25	0.28	0.08	0.16	0.00	0.63	0.71
	Rear	0.21	0.43	0.59	0.40	0.50	0.33	0.47	0.59	0.21	0.70	0.14	0.39	0.36	0.13	0.13	0.03	0.83	0.86

The sum of reported SAR values for 2/3/4G ANT31/41+WiFi+BT

reported SAR 1g (W/kg)																			
Head		CDMA BC0	GSM850	GSM1900	WCDMA 1900	WCDMA 1700	WCDMA 850	LTE Band2	LTE Band4	LTE Band5	LTE Band7	LTE Band12	LTE Band38	LTE Band41	2.4G	5G	BT	Cellular + WiF2.4G	Cellular + WiF5G + BT
Cheek	L	0.21	0.28	0.12	0.24	0.33	0.34	0.21	0.21	0.26	0.19	0.16	0.09	0.12	0.19	0.35	0.11	0.53	0.80
	Tilt	0.11	0.14	0.00	0.06	0.11	0.19	0.11	0.08	0.15	0.10	0.08	0.07	0.08	0.21	0.45	0.09	0.40	0.75
	R	0.16	0.21	0.09	0.14	0.20	0.20	0.20	0.23	0.20	0.30	0.13	0.18	0.23	0.07	0.13	0.04	0.37	0.47
	Tilt	0.08	0.09	0.09	0.11	0.15	0.07	0.17	0.14	0.10	0.15	0.00	0.10	0.11	0.12	0.22	0.00	0.29	0.39
Body		CDMA BC0	GSM850	GSM1900	WCDMA 1900	WCDMA 1700	WCDMA 850	LTE Band2	LTE Band4	LTE Band5	LTE Band7	LTE Band12	LTE Band38	LTE Band41	2.4G	5G	BT	Cellular + WiF2.4G	Cellular + WiF5G + BT
Front	10mm	0.23	0.20	0.12	0.13	0.24	0.32	0.25	0.31	0.19	0.17	0.11	0.07	0.39	0.08	0.16	0.00	0.47	0.55
	10mm	0.39	0.46	0.23	0.33	0.43	0.54	0.48	0.53	0.30	0.26	0.15	0.09	0.52	0.13	0.13	0.03	0.67	0.70
	Left	0.20	0.23	0.00	0.04	0.00	0.33	0.00	0.05	0.19	0.05	0.10	0.00	0.05	0.00	0.00	0.00	0.33	0.33
	Right	0.11	0.00	0.04	0.04	0.12	0.00	0.07	0.17	0.05	0.09	0.09	0.06	0.32	0.08	0.14	0.00	0.40	0.46
Bottom	10mm	0.14	0.11	0.36	0.21	0.50	0.06	0.42	0.48	0.10	0.10	0.07	0.04	0.16	0.00	0.00	0.00	0.50	0.50
	Top	0.10mm													0.09	0.31	0.00	0.09	0.40
Body		CDMA BC0	GSM850	GSM1900	WCDMA 1900	WCDMA 1700	WCDMA 850	LTE Band2	LTE Band4	LTE Band5	LTE Band7	LTE Band12	LTE Band38	LTE Band41	2.4G	5G	BT	Cellular + WiF2.4G	Cellular + WiF5G + BT
Front	15mm	0.23	0.25	0.10	0.16	0.17	0.32	0.18	0.15	0.19	0.10	0.11	0.05	0.39	0.08	0.16	0.00	0.47	0.55
	Rear	0.39	0.57	0.24	0.33	0.32	0.54	0.31	0.25	0.30	0.14	0.15	0.06	0.52	0.13	0.13	0.03	0.70	0.70

The sum of reported SAR values for NR SA+WiFi+BT

reported SAR 1g (W/kg)														
Head		N5 ANT13	N5 ANT41	N7 ANT11	N7 ANT13	N41 ANT11	N41 ANT13	N78 ANT11	N78 ANT12	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WiFi5G+BT
Cheek	L	0.24	0.23	0.15	0.25	0.20	0.34	0.17	0.16	0.19	0.35	0.11	0.53	0.80
Tilt	L	0.25	0.15	0.07	0.41	0.02	0.24	0.07	0.15	0.21	0.45	0.09	0.62	0.95
Cheek	R	0.24	0.16	0.41	0.45	0.71	0.42	0.59	0.30	0.07	0.13	0.04	0.78	0.88
Tilt	R	0.29	0.11	0.12	0.69	0.09	0.41	0.16	0.33	0.12	0.22	0.00	0.81	0.91
Body		N5 ANT13	N5 ANT41	N7 ANT11	N7 ANT13	N41 ANT11	N41 ANT13	N78 ANT11	N78 ANT12	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WiFi5G+BT
Front	10mm	0.18	0.17	0.10	0.14	0.10	0.55	0.17	0.10	0.08	0.16	0.00	0.63	0.71
Rear	10mm	0.24	0.29	0.24	0.28	0.20	0.73	0.11	0.16	0.13	0.13	0.03	0.86	0.89
Left	10mm	0.09	0.17	0.30	0.11	0.36	0.65	0.40	0.09	0.00	0.00	0.00	0.65	0.65
Right	10mm		0.00							0.08	0.14	0.00	0.08	0.14
Bottom	10mm		0.05							0.00	0.00		0.05	0.05
Top	10mm	0.20		0.00	0.21	0.00	0.74	0.05	0.14	0.09	0.31	0.00	0.83	1.05
Body		N5 ANT13	N5 ANT41	N7 ANT11	N7 ANT13	N41 ANT11	N41 ANT13	N78 ANT11	N78 ANT12	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WiFi5G+BT
Front	15mm	0.18	0.17	0.16	0.37	0.27	0.55	0.26	0.06	0.08	0.16	0.00	0.63	0.71
Rear	15mm	0.24	0.29	0.33	0.66	0.55	0.73	0.40	0.06	0.13	0.13	0.03	0.86	0.89

The sum of reported SAR values for NR NSA

N5 ANT41+LTE

reported SAR 1g (W/kg)						
Head		N5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	N5 ANT41+B7 ANT13	N5 ANT41+B7 ANT31
Cheek	L	0.23	0.26	0.19	0.49	0.42
Tilt	L	0.15	0.36	0.10	0.51	0.25
Cheek	R	0.16	0.38	0.30	0.54	0.46
Tilt	R	0.11	0.51	0.15	0.62	0.26
Body		N5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	N5 ANT41+B7 ANT13	N5 ANT41+B7 ANT31
Front	10mm	0.17	0.16	0.17	0.33	0.34
Rear	10mm	0.29	0.29	0.26	0.58	0.55
Left	10mm	0.17	0.14	0.05	0.31	0.22
Right	10mm	0.00	0.04	0.09	0.04	0.09
Bottom	10mm	0.05	0.00	0.10	0.05	0.15
Top	10mm	0.00	0.45	0.00	0.45	0.00
Body		N5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	N5 ANT41+B7 ANT13	N5 ANT41+B7 ANT31
Front	15mm	0.17	0.41	0.10	0.58	0.27
Rear	15mm	0.29	0.70	0.14	0.99	0.43

N41+LTE

reported SAR 1g (W/kg)						
Head		N41 ANT11	N41 ANT13	LTE Band5 ANT41	N41 ANT11+B5 ANT41	N41 ANT13+B5 ANT41
Cheek	L	0.20	0.34	0.26	0.46	0.60
Tilt	L	0.02	0.24	0.15	0.17	0.39
Cheek	R	0.71	0.42	0.20	0.91	0.62
Tilt	R	0.09	0.41	0.10	0.19	0.51
Body		N41 ANT11	N41 ANT13	LTE Band5 ANT41	N41 ANT11+B5 ANT41	N41 ANT13+B5 ANT41
Front	10mm	0.10	0.55	0.19	0.29	0.74
Rear	10mm	0.20	0.73	0.30	0.50	1.03
Left	10mm	0.36	0.65	0.19	0.55	0.84
Right	10mm	0.00	0.00	0.05	0.05	0.05
Bottom	10mm	0.00	0.00	0.10	0.10	0.10
Top	10mm	0.00	0.74	0.00	0.00	0.74
Body		N41 ANT11	N41 ANT13	LTE Band5 ANT41	N41 ANT11+B5 ANT41	N41 ANT13+B5 ANT41
Front	15mm	0.27	0.55	0.19	0.46	0.74
Rear	15mm	0.55	0.73	0.30	0.85	1.03

N78 ANT11+LTE

reported SAR 1g (W/kg)												
Head		N78 ANT11	LTE Band5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	LTE Band41 ANT13	LTE Band41 ANT31	N78 ANT11+B 5 ANT41	N78 ANT11+B 7 ANT13	N78 ANT11+B 7 ANT31	N78 ANT11+B 41 ANT13	N78 ANT11+B4 1 ANT31
Cheek	L	0.17	0.26	0.26	0.19	0.24	0.12	0.43	0.43	0.36	0.41	0.29
Tilt	L	0.07	0.15	0.36	0.10	0.26	0.08	0.22	0.43	0.17	0.33	0.15
Cheek	R	0.59	0.20	0.38	0.30	0.38	0.23	0.79	0.97	0.89	0.97	0.82
Tilt	R	0.16	0.10	0.51	0.15	0.38	0.11	0.26	0.67	0.31	0.54	0.27
Body		N78 ANT11	LTE Band5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	LTE Band41 ANT13	LTE Band41 ANT31	N78 ANT11+B 5 ANT41	N78 ANT11+B 7 ANT13	N78 ANT11+B 7 ANT31	N78 ANT11+B 41 ANT13	N78 ANT11+B4 1 ANT31
Front	10mm	0.17	0.19	0.16	0.17	0.08	0.39	0.36	0.33	0.34	0.25	0.56
Rear	10mm	0.11	0.30	0.29	0.26	0.14	0.52	0.41	0.40	0.37	0.25	0.63
Left	10mm	0.40	0.19	0.14	0.05	0.09	0.05	0.59	0.54	0.45	0.49	0.45
Right	10mm	0.00	0.05	0.04	0.09	0.02	0.32	0.05	0.04	0.09	0.02	0.32
Bottom	10mm	0.00	0.10	0.00	0.10	0.00	0.16	0.10	0.00	0.10	0.00	0.16
Top	10mm	0.05	0.00	0.45	0.00	0.16	0.00	0.05	0.50	0.05	0.21	0.05
Body		N78 ANT11	LTE Band5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	LTE Band41 ANT13	LTE Band41 ANT31	N78 ANT11+B 5 ANT41	N78 ANT11+B 7 ANT13	N78 ANT11+B 7 ANT31	N78 ANT11+B 41 ANT13	N78 ANT11+B4 1 ANT31
Front	15mm	0.26	0.19	0.41	0.10	0.28	0.39	0.45	0.67	0.36	0.54	0.65
Rear	15mm	0.40	0.30	0.70	0.14	0.36	0.52	0.70	1.10	0.54	0.76	0.92

N78 ANT12+LTE

reported SAR 1g (W/kg)												
Head		N78 ANT12	LTE Band5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	LTE Band41 ANT13	LTE Band41 ANT31	N78 ANT12+B 5 ANT41	N78 ANT12+B 7 ANT13	N78 ANT12+B 7 ANT31	N78 ANT12+B 41 ANT13	N78 ANT12+B4 1 ANT31
Cheek	L	0.16	0.26	0.26	0.19	0.24	0.12	0.42	0.42	0.35	0.40	0.28
Tilt	L	0.15	0.15	0.36	0.10	0.26	0.08	0.30	0.51	0.25	0.41	0.23
Cheek	R	0.30	0.20	0.38	0.30	0.38	0.23	0.50	0.68	0.60	0.68	0.53
Tilt	R	0.33	0.10	0.51	0.15	0.38	0.11	0.43	0.84	0.48	0.71	0.44
Body		N78 ANT12	LTE Band5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	LTE Band41 ANT13	LTE Band41 ANT31	N78 ANT12+B 5 ANT41	N78 ANT12+B 7 ANT13	N78 ANT12+B 7 ANT31	N78 ANT12+B 41 ANT13	N78 ANT12+B4 1 ANT31
Front	10mm	0.10	0.19	0.16	0.17	0.08	0.39	0.29	0.26	0.27	0.18	0.49
Rear	10mm	0.16	0.30	0.29	0.26	0.14	0.52	0.46	0.45	0.42	0.30	0.68
Left	10mm	0.09	0.19	0.14	0.05	0.09	0.05	0.28	0.23	0.14	0.18	0.14
Right	10mm	0.00	0.05	0.04	0.09	0.02	0.32	0.05	0.04	0.09	0.02	0.32
Bottom	10mm	0.00	0.10	0.00	0.10	0.00	0.16	0.10	0.00	0.10	0.00	0.16
Top	10mm	0.14	0.00	0.45	0.00	0.16	0.00	0.14	0.59	0.14	0.30	0.14
Body		N78 ANT12	LTE Band5 ANT41	LTE Band7 ANT13	LTE Band7 ANT31	LTE Band41 ANT13	LTE Band41 ANT31	N78 ANT12+B 5 ANT41	N78 ANT12+B 7 ANT13	N78 ANT12+B 7 ANT31	N78 ANT12+B 41 ANT13	N78 ANT12+B4 1 ANT31
Front	15mm	0.06	0.19	0.41	0.10	0.28	0.39	0.25	0.47	0.16	0.34	0.45
Rear	15mm	0.06	0.30	0.70	0.14	0.36	0.52	0.36	0.76	0.20	0.42	0.58

The sum of reported SAR values for NR NSA+WIFI+BT

N5 ANT41+LTE+WIFI+BT

reported SAR 1g (W/kg)								
Head		N5 ANT41+B7 ANT13	N5 ANT41+B7 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Cheek	L	0.49	0.42	0.19	0.35	0.13	0.68	0.97
Tilt	L	0.51	0.25	0.21	0.45	0.10	0.72	1.06
Cheek	R	0.54	0.46	0.07	0.13	0.05	0.61	0.72
Tilt	R	0.62	0.26	0.12	0.22	0.00	0.74	0.84
Body		N5 ANT41+B7 ANT13	N5 ANT41+B7 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	10mm	0.33	0.34	0.08	0.16	0.00	0.42	0.50
Rear	10mm	0.58	0.55	0.13	0.13	0.03	0.71	0.74
Left	10mm	0.31	0.22	0.00	0.00	0.00	0.31	0.31
Right	10mm	0.04	0.09	0.08	0.14	0.00	0.17	0.23
Bottom	10mm	0.05	0.15	0.00	0.00	0.00	0.15	0.15
Top	10mm	0.45	0.00	0.09	0.31	0.00	0.54	0.76
Body		N5 ANT41+B7 ANT13	N5 ANT41+B7 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	15mm	0.58	0.27	0.08	0.16	0.00	0.66	0.74
Rear	15mm	0.99	0.43	0.13	0.13	0.03	1.12	1.15

N41 +LTE+WIFI+BT

reported SAR 1g (W/kg)								
Head		N41 ANT11+B5 ANT41	N41 ANT13+B5 ANT41	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Cheek	L	0.46	0.60	0.19	0.35	0.11	0.79	1.06
Tilt	L	0.17	0.39	0.21	0.45	0.09	0.60	0.93
Cheek	R	0.91	0.62	0.07	0.13	0.04	0.98	1.08
Tilt	R	0.19	0.51	0.12	0.22	0.00	0.63	0.73
Body		N41 ANT11+B5 ANT41	N41 ANT13+B5 ANT41	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	10mm	0.29	0.74	0.08	0.16	0.00	0.82	0.90
Rear	10mm	0.50	1.03	0.13	0.13	0.03	1.16	1.19
Left	10mm	0.55	0.84	0.00	0.00	0.00	0.84	0.84
Right	10mm	0.05	0.05	0.08	0.14	0.00	0.13	0.19
Bottom	10mm	0.10	0.10	0.00	0.00	0.00	0.10	0.10
Top	10mm	0.00	0.74	0.09	0.31	0.00	0.83	1.05
Body		N41 ANT11+B5 ANT41	N41 ANT13+B5 ANT41	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	15mm	0.46	0.74	0.08	0.16	0.00	0.82	0.90
Rear	15mm	0.85	1.03	0.13	0.13	0.03	1.16	1.19

N78 ANT11+LTE+WIFI+BT

reported SAR 1g (W/kg)											
Head		N78 ANT11+B 5 ANT41	N78 ANT11+B 7 ANT13	N78 ANT11+B 7 ANT31	N78 ANT11+B 41 ANT13	N78 ANT11+B4 1 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Cheek	L	0.43	0.43	0.36	0.41	0.29	0.19	0.35	0.11	0.62	0.89
Tilt	L	0.22	0.43	0.17	0.33	0.15	0.21	0.45	0.09	0.64	0.97
Cheek	R	0.79	0.97	0.89	0.97	0.82	0.07	0.13	0.04	1.04	1.14
Tilt	R	0.26	0.67	0.31	0.54	0.27	0.12	0.22	0.00	0.79	0.89
Body		N78 ANT11+B 5 ANT41	N78 ANT11+B 7 ANT13	N78 ANT11+B 7 ANT31	N78 ANT11+B 41 ANT13	N78 ANT11+B4 1 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	10mm	0.36	0.33	0.34	0.25	0.56	0.08	0.16	0.00	0.64	0.72
Rear	10mm	0.41	0.40	0.37	0.25	0.63	0.13	0.13	0.03	0.76	0.79
Left	10mm	0.59	0.54	0.45	0.49	0.45	0.00	0.00	0.00	0.59	0.59
Right	10mm	0.05	0.04	0.09	0.02	0.32	0.08	0.14	0.00	0.40	0.46
Bottom	10mm	0.10	0.00	0.10	0.00	0.16	0.00	0.00	0.00	0.16	0.16
Top	10mm	0.05	0.50	0.05	0.21	0.05	0.09	0.31	0.00	0.59	0.81
Body		N78 ANT11+B 5 ANT41	N78 ANT11+B 7 ANT13	N78 ANT11+B 7 ANT31	N78 ANT11+B 41 ANT13	N78 ANT11+B4 1 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	15mm	0.45	0.67	0.36	0.54	0.65	0.08	0.16	0.00	0.75	0.83
Rear	15mm	0.70	1.10	0.54	0.76	0.92	0.13	0.13	0.03	1.23	1.26

N78 ANT12+LTE +WIFI+BT

reported SAR 1g (W/kg)											
Head		N78 ANT12+B 5 ANT41	N78 ANT12+B 7 ANT13	N78 ANT12+B 7 ANT31	N78 ANT12+B 41 ANT13	N78 ANT12+B4 1 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Cheek	L	0.42	0.42	0.35	0.40	0.28	0.19	0.35	0.11	0.61	0.88
Tilt	L	0.30	0.51	0.25	0.41	0.23	0.21	0.45	0.09	0.72	1.05
Cheek	R	0.50	0.68	0.60	0.68	0.53	0.07	0.13	0.04	0.75	0.85
Tilt	R	0.43	0.84	0.48	0.71	0.44	0.12	0.22	0.00	0.96	1.06
Body		N78 ANT12+B 5 ANT41	N78 ANT12+B 7 ANT13	N78 ANT12+B 7 ANT31	N78 ANT12+B 41 ANT13	N78 ANT12+B4 1 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	10mm	0.29	0.26	0.27	0.18	0.49	0.08	0.16	0.00	0.57	0.65
Rear	10mm	0.46	0.45	0.42	0.30	0.68	0.13	0.13	0.03	0.81	0.84
Left	10mm	0.28	0.23	0.14	0.18	0.14	0.00	0.00	0.00	0.28	0.28
Right	10mm	0.05	0.04	0.09	0.02	0.32	0.08	0.14	0.00	0.40	0.46
Bottom	10mm	0.10	0.00	0.10	0.00	0.16	0.00	0.00	0.00	0.16	0.16
Top	10mm	0.14	0.59	0.14	0.30	0.14	0.09	0.31	0.00	0.68	0.90
Body		N78 ANT12+B 5 ANT41	N78 ANT12+B 7 ANT13	N78 ANT12+B 7 ANT31	N78 ANT12+B 41 ANT13	N78 ANT12+B4 1 ANT31	2.4G	5G	BT	Cellular+WiFi2.4G	Cellular+WIFI5G+BT
Front	15mm	0.25	0.47	0.16	0.34	0.45	0.08	0.16	0.00	0.55	0.63
Rear	15mm	0.36	0.76	0.20	0.42	0.58	0.13	0.13	0.03	0.89	0.92

15.4 Conclusion

According to the above tables, the highest simultaneous transmission reported SAR values is **1.26W/kg (1g)**. The sum of reported SAR values is <1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

16 Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.

17 MAIN TEST INSTRUMENTS

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	January 14, 2021	One year
02	Power meter	NRP2	106276	May 11, 2021	One year
03	Power sensor	NRP6A	101369		
04	Signal Generator	E4438C	MY49070393	May 14, 2021	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	159890	January 25 2021	One year
07	BTS	CMW500	166370	June 25, 2021	One year
08	E-field Probe	SPEAG EX3DV4	7517	February 03, 2021	One year
09	DAE	SPEAG DAE4	1525	September 01 2021	One year
10	Dipole Validation Kit	SPEAG D750V3	1017	July 12,,2021	One year
11	Dipole Validation Kit	SPEAG D835V2	4d069	July 12,,2021	One year
12	Dipole Validation Kit	SPEAG D1750V2	1003	July 12, 2021	One year
13	Dipole Validation Kit	SPEAG D1900V2	5d101	July 15,2021	One year
14	Dipole Validation Kit	SPEAG D2450V2	853	July 26,2021	One year
15	Dipole Validation Kit	SPEAG D2600V2	1012	July 26,2021	One year
16	Dipole Validation Kit	SPEAG D3500V2	1016	June 21,2021	One year
17	Dipole Validation Kit	SPEAG D3700V2	1004	June 21,2021	One year
18	Dipole Validation Kit	SPEAG D5GHzV2	1060	June 22,2021	One year

END OF REPORT BODY

ANNEX A Graph Results

CDMA BC0 Head ANT13

Date/Time: 12/23/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 43.956$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, CDMA BC0 (0) Frequency: 848.31 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.437 W/kg

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

Reference Value = 16.04 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.860 W/kg

SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.181 W/kg

Maximum value of SAR (measured) = 0.595 W/kg

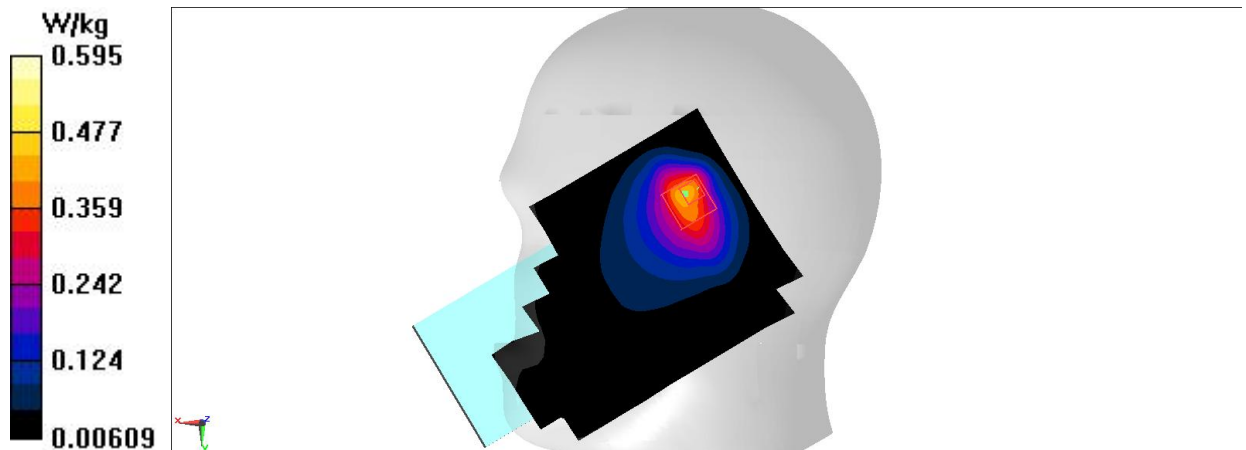


Fig A.1

GSM850 Head ANT13

Date/Time: 12/23/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 44.229$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, GSM 850 (0) Frequency: 824.2 MHz Duty Cycle: 1:8.30042

Probe: EX3DV4 - SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

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

Maximum value of SAR (interpolated) = 0.217 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.31 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.133 W/kg ; SAR(10 g) = 0.081 W/kg

Maximum value of SAR (measured) = 0.206 W/kg

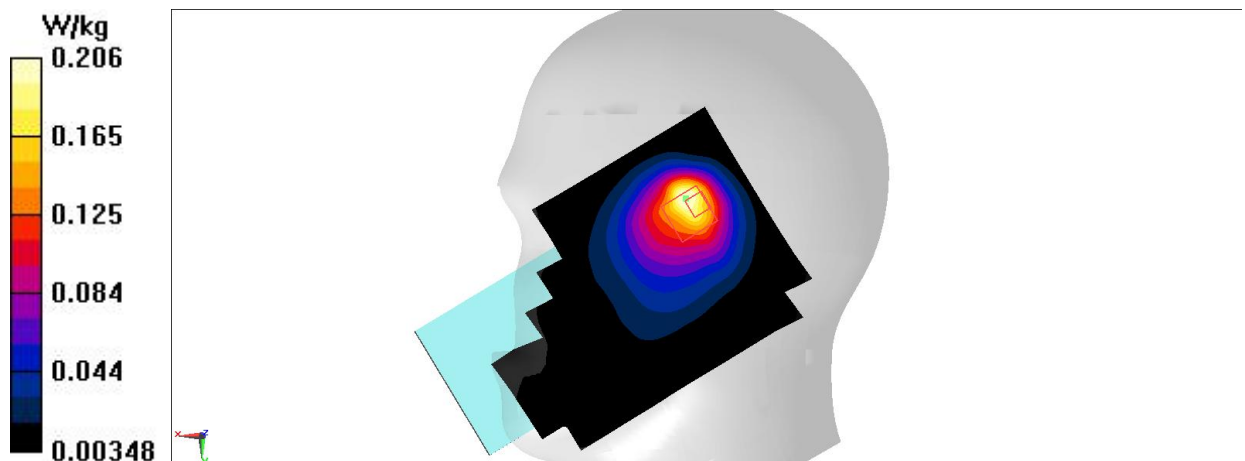


Fig A.2

GSM1900 Head ANT13

Date/Time: 12/28/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.454$ S/m; $\epsilon_r = 41.822$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, GSM 1900 (0) Frequency: 1880 MHz Duty Cycle: 1:8.30042

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.463 W/kg

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

Reference Value = 7.913 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.748 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.635 W/kg

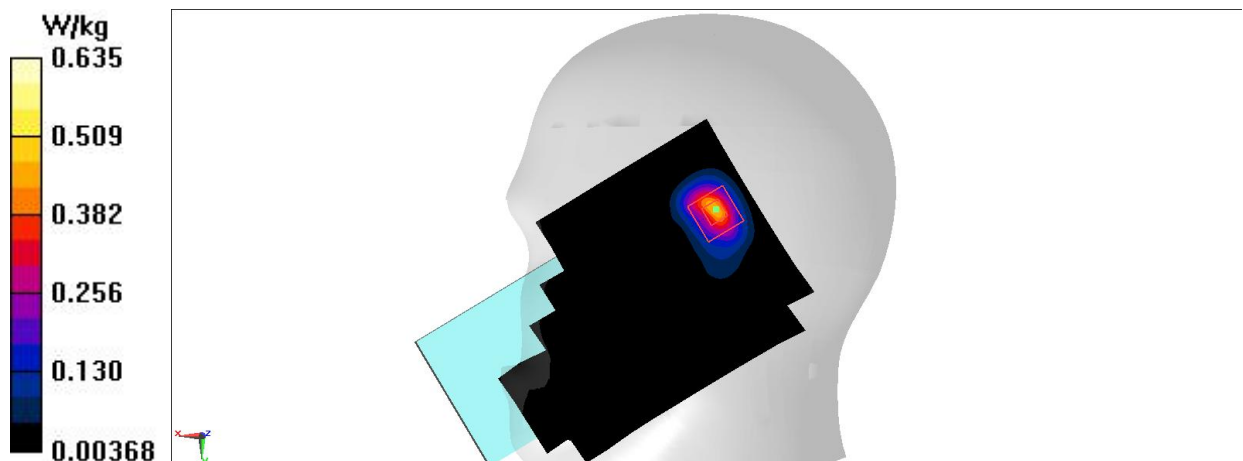


Fig A.3

WCDMA1900 Head ANT13

Date/Time: 12/28/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.454$ S/m; $\epsilon_r = 41.822$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 1900 (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.776 W/kg

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

Reference Value = 9.588 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.552 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.910 W/kg

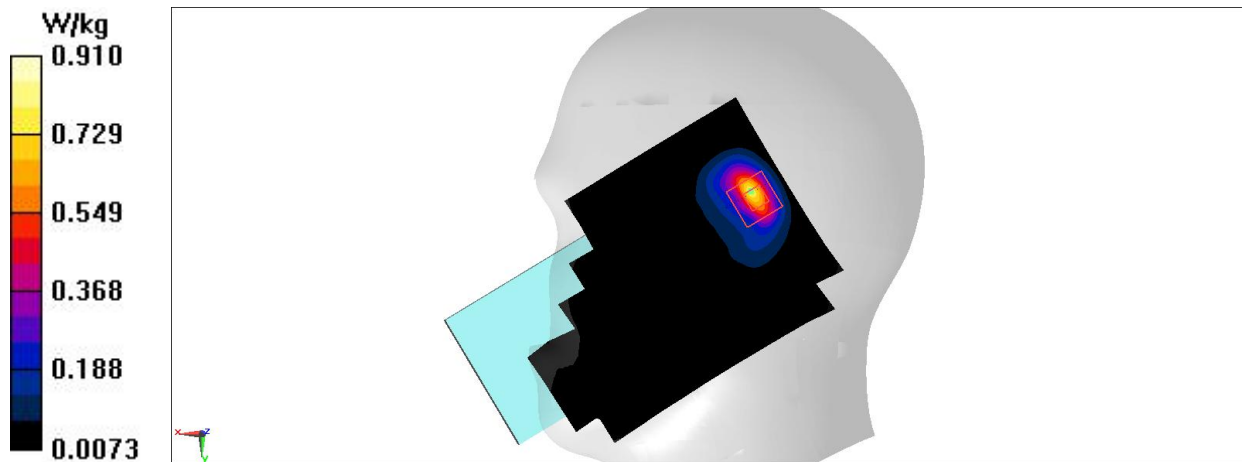


Fig A.4

WCDMA1700 Head ANT13

Date/Time: 12/28/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 41.647$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.22, 8.22, 8.22); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.800 W/kg

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

Reference Value = 8.271 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.256 W/kg

Maximum value of SAR (measured) = 0.950 W/kg

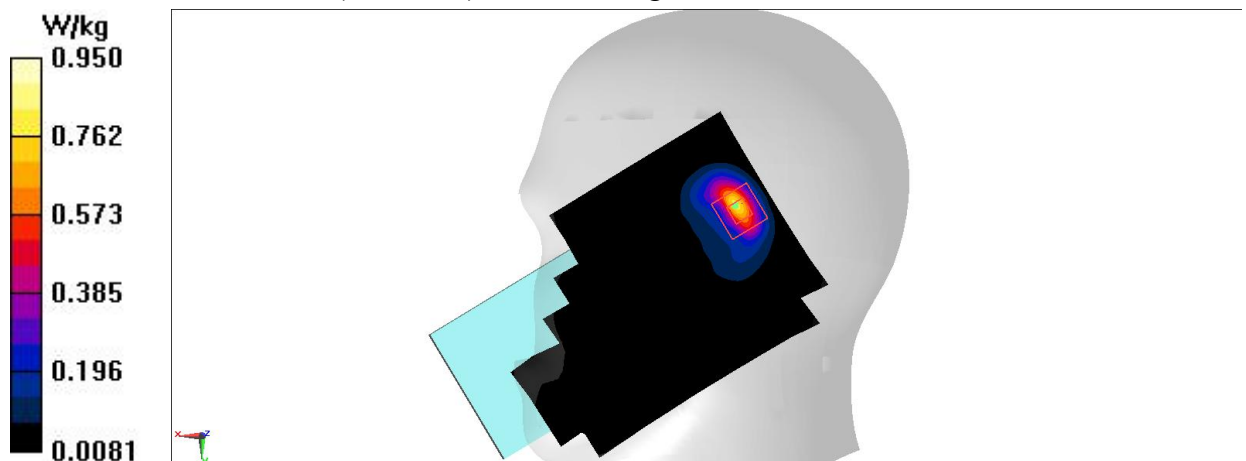


Fig A.5

WCDMA850 Head ANT13

Date/Time: 12/23/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 44.038$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 850 (0) Frequency: 846.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.274 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.25 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.267 W/kg

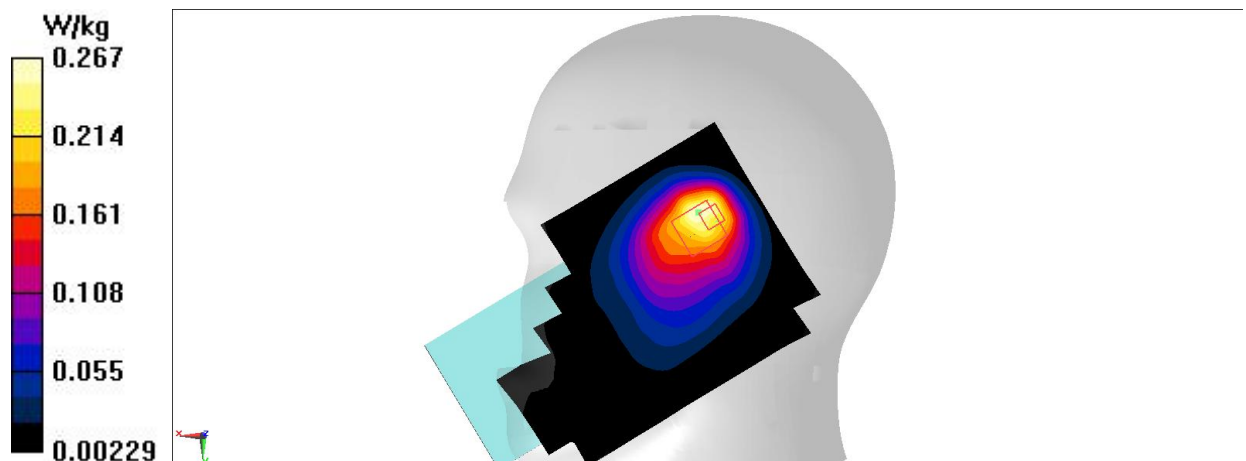


Fig A.6

LTE Band2 Head ANT13

Date/Time: 12/28/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.441$ S/m; $\epsilon_r = 41.907$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band2(20MB) (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

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

Reference Value = 6.507 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.528 W/kg; SAR(10 g) = 0.239 W/kg

Maximum value of SAR (measured) = 0.887 W/kg

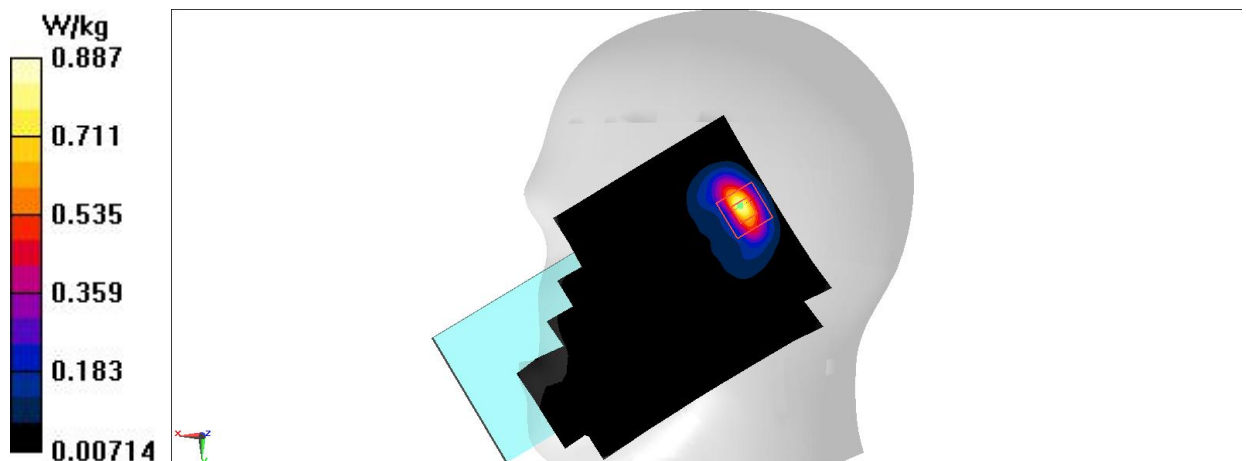


Fig A.7

LTE Band4 Head ANT13

Date/Time: 12/28/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.741$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band4 (0) Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.22, 8.22, 8.22); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.748 W/kg

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

Reference Value = 6.647 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.982 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.212 W/kg

Maximum value of SAR (measured) = 0.785 W/kg

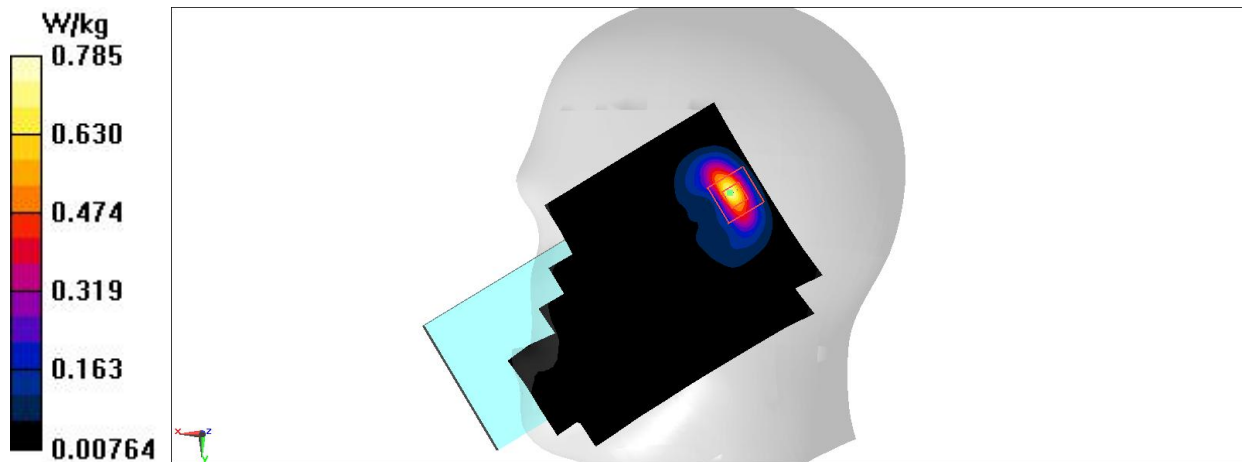


Fig A.8

LTE Band5 Head ANT13

Date/Time: 12/23/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used (interpolated): $f = 829 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 44.206$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band5 (0) Frequency: 829 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

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

Maximum value of SAR (interpolated) = 0.319 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.59 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.289 W/kg

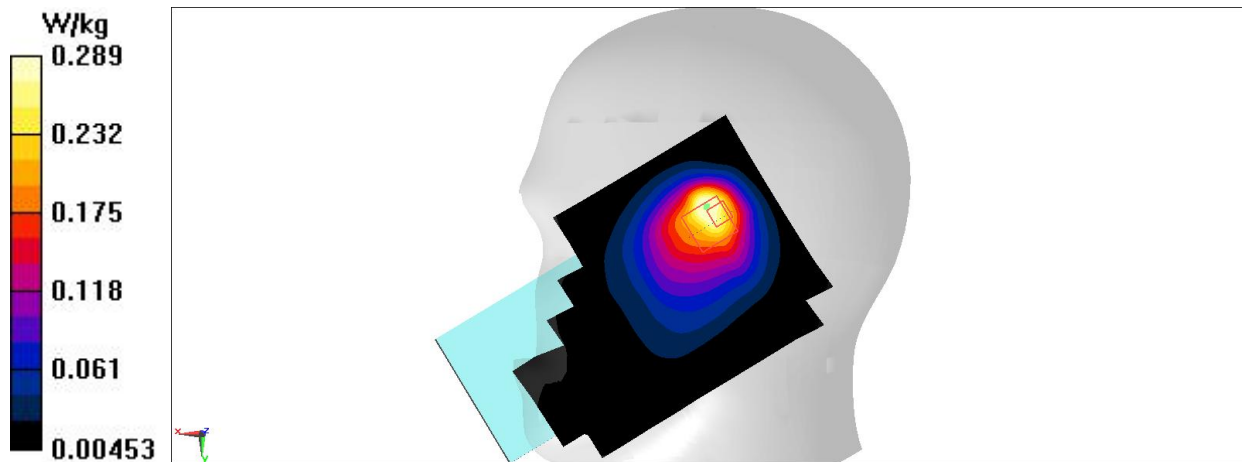


Fig A.9

LTE Band7 Head ANT13

Date/Time: 12/27/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.961$ S/m; $\epsilon_r = 38.569$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band7-20M (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): 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: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.687 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.906 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.672 W/kg

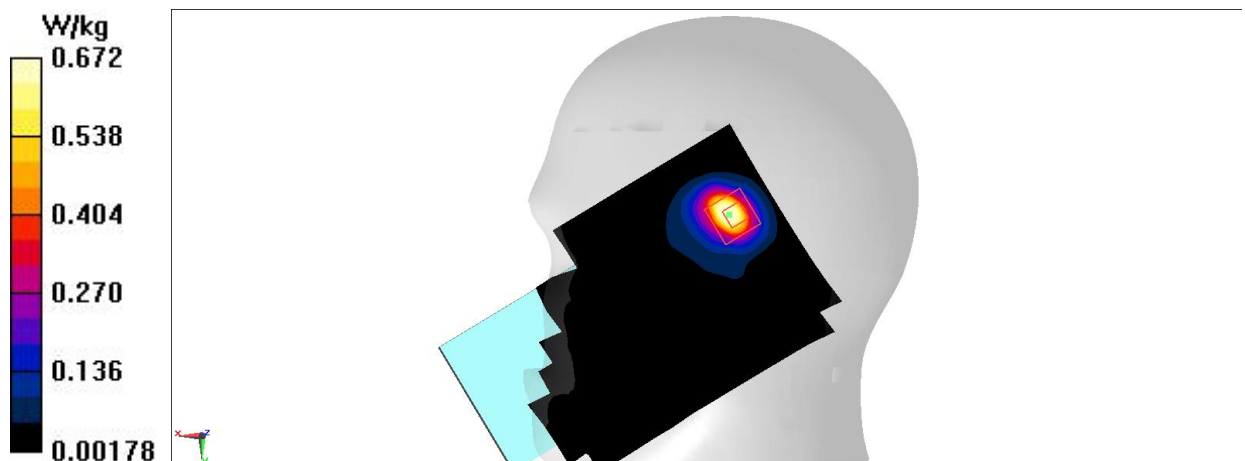


Fig A.10

LTE Band12 Head ANT13

Date/Time: 12/28/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used (interpolated): $f = 704 \text{ MHz}$; $\sigma = 0.848 \text{ S/m}$; $\epsilon_r = 44.441$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band12 (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.81, 9.81, 9.81); Calibrated: 2/3/2021

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

Maximum value of SAR (interpolated) = 0.262 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.41 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.175 W/kg ; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.329 W/kg

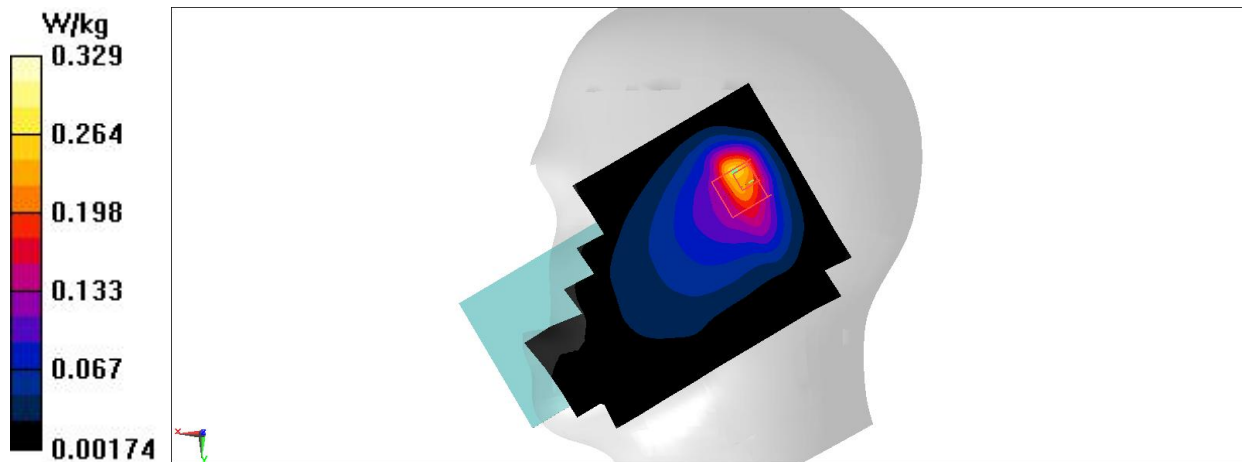


Fig A.11

LTE Band38 Head ANT13

Date/Time: 1/10/2022

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.946$ S/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band38 20M (0) Frequency: 2580 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.979 W/kg

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

Reference Value = 3.312 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 0.895 W/kg

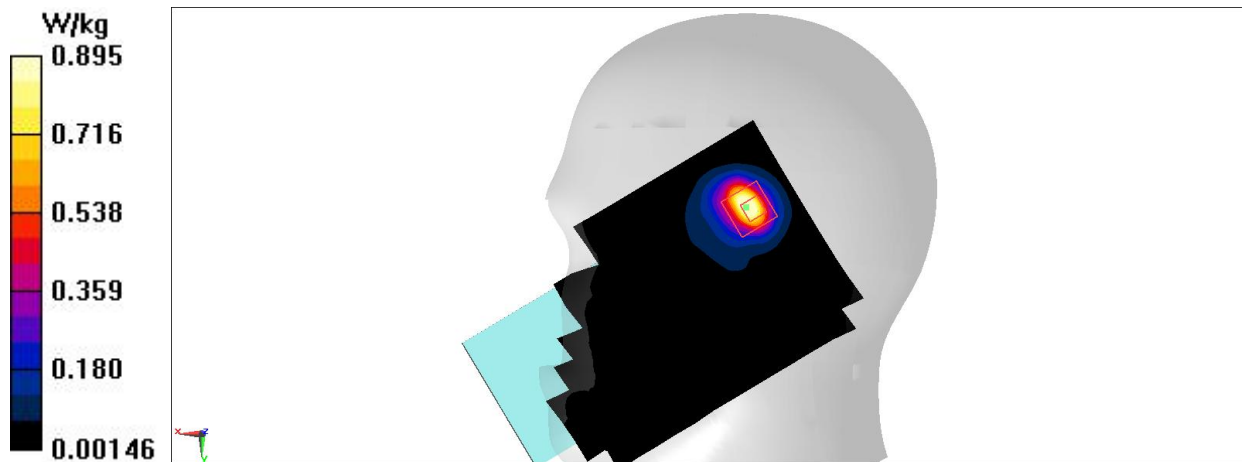


Fig A.12

LTE Band41 Head ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2636.5$ MHz; $\sigma = 2.051$ S/m; $\epsilon_r = 37.983$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band41 (0) Frequency: 2636.5 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.603 W/kg

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

Reference Value = 2.995 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.728 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.140 W/kg

Maximum value of SAR (measured) = 0.536 W/kg

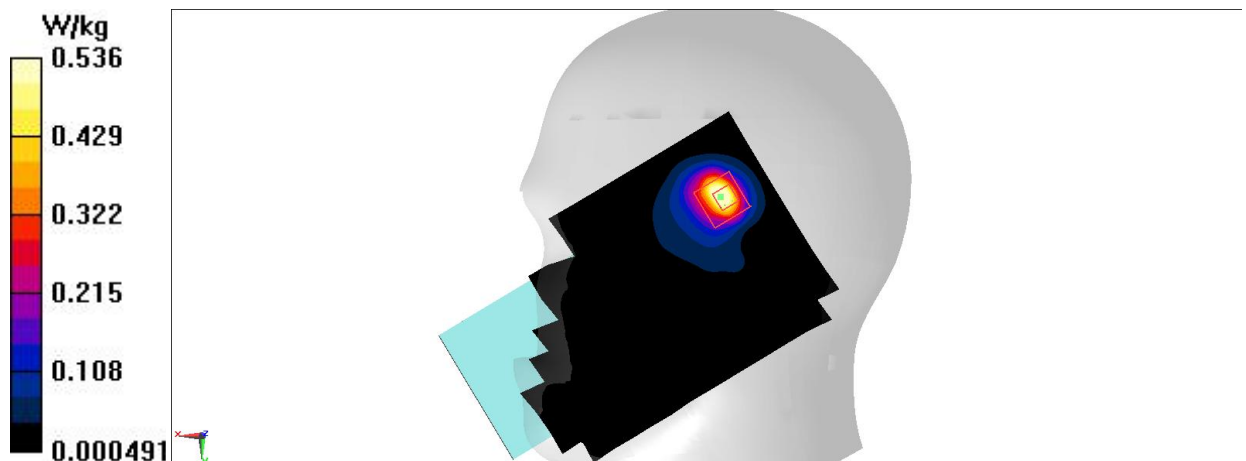


Fig A.13

CDMA BC0 Body ANT13

Date/Time: 12/23/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 44.136$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, CDMA BC0 (0) Frequency: 836.52 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

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

Maximum value of SAR (interpolated) = 0.242 W/kg

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

Reference Value = 11.08 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.284 W/kg

SAR(1 g) = 0.166 W/kg ; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.236 W/kg

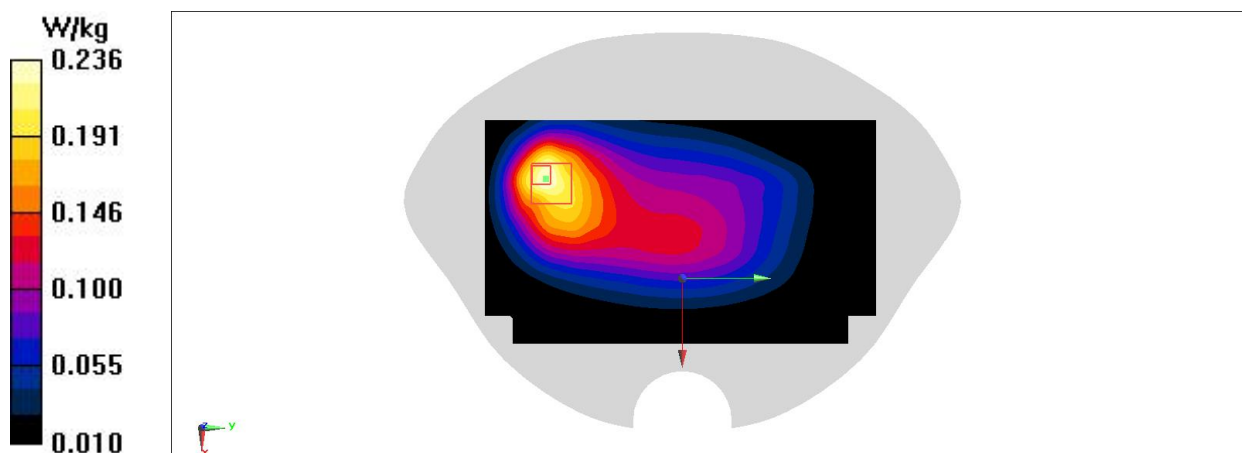


Fig A.14

GSM850 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.862$ S/m; $\epsilon_r = 43.773$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, GSM 850 GPRS-2 (0) Frequency: 836.6 MHz Duty Cycle: 1:4.00037

Probe: EX3DV4 - SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.553 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.45 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.251 W/kg

Maximum value of SAR (measured) = 0.547 W/kg

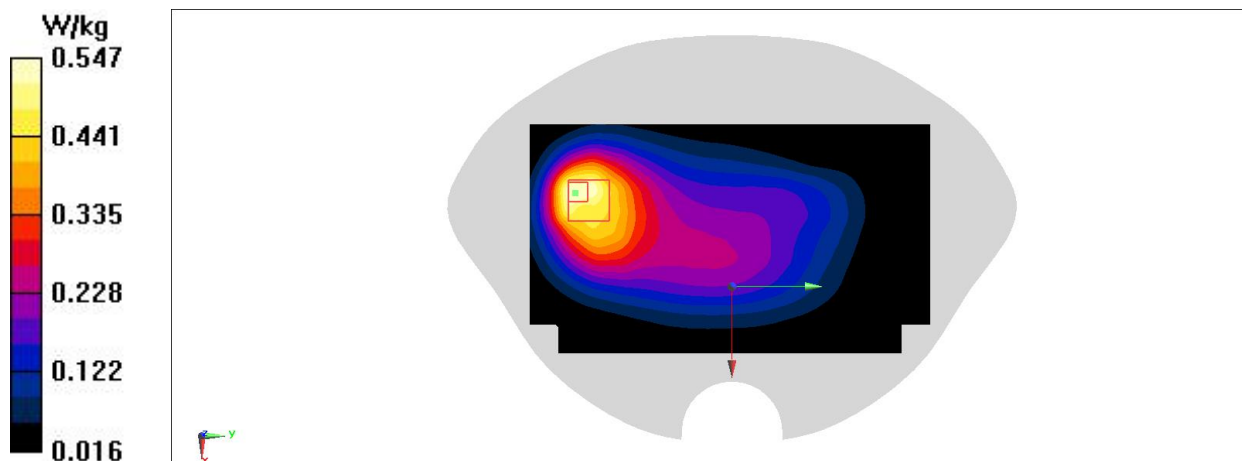


Fig A.15

GSM1900 Body ANT13

Date/Time: 1/6/2022

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 39.531$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, GSM 1900 GPRS-2 (0) Frequency: 1850.2 MHz Duty Cycle: 1:4.00037

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.649 W/kg

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

Reference Value = 16.70 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 0.679 W/kg

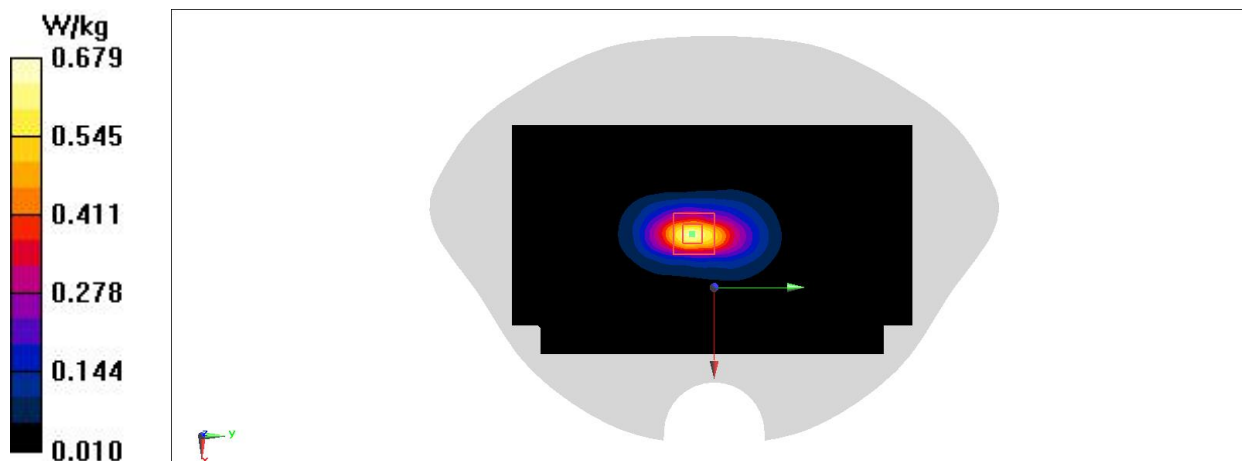


Fig A.16

GSM1900 Body ANT13

Date/Time: 12/30/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 41.653$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, GSM 1900 GPRS-2 (0) Frequency: 1909.8 MHz Duty Cycle: 1:4.00037

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.654 W/kg

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

Reference Value = 4.340 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.257 W/kg

Maximum value of SAR (measured) = 0.681 W/kg

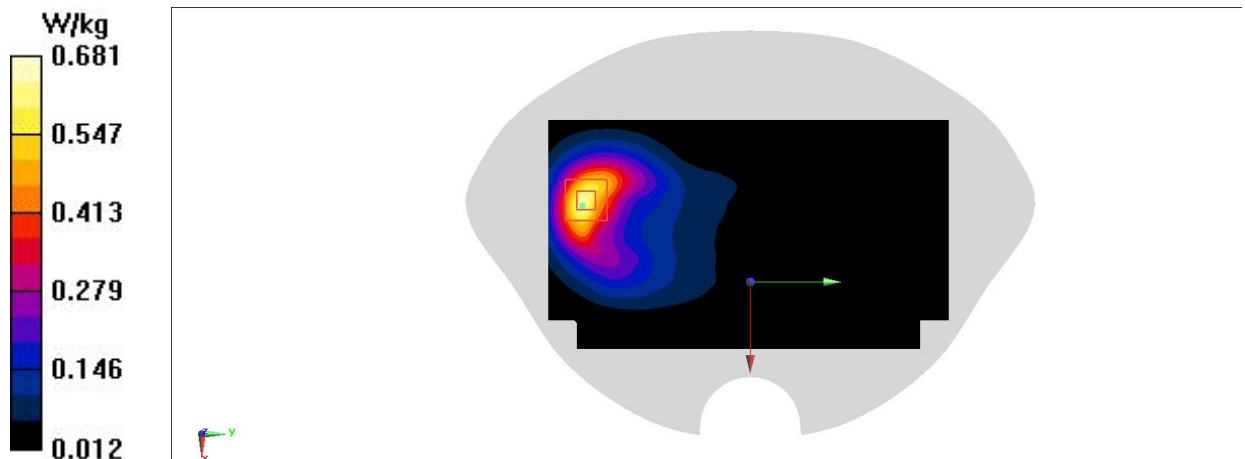


Fig A.17

WCDMA1900 Body ANT13

Date/Time: 12/30/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 41.69$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 1900 (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.616 W/kg

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

Reference Value = 7.931 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.631 W/kg

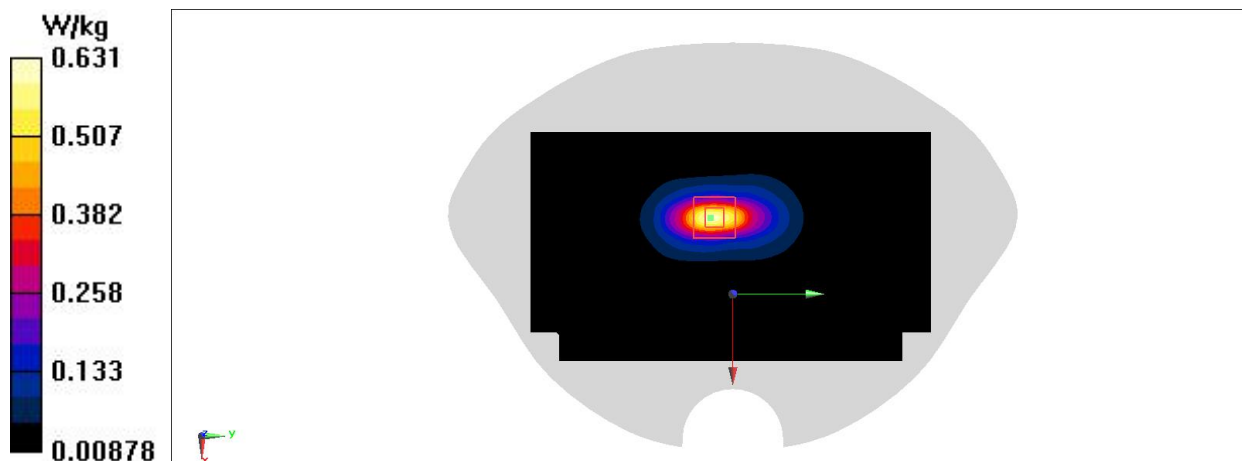


Fig A.18

WCDMA1900 Body ANT13

Date/Time: 12/30/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 41.69$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 1900 (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.405 W/kg

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

Reference Value = 4.366 V/m; Power Drift = 0.01dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.404 W/kg

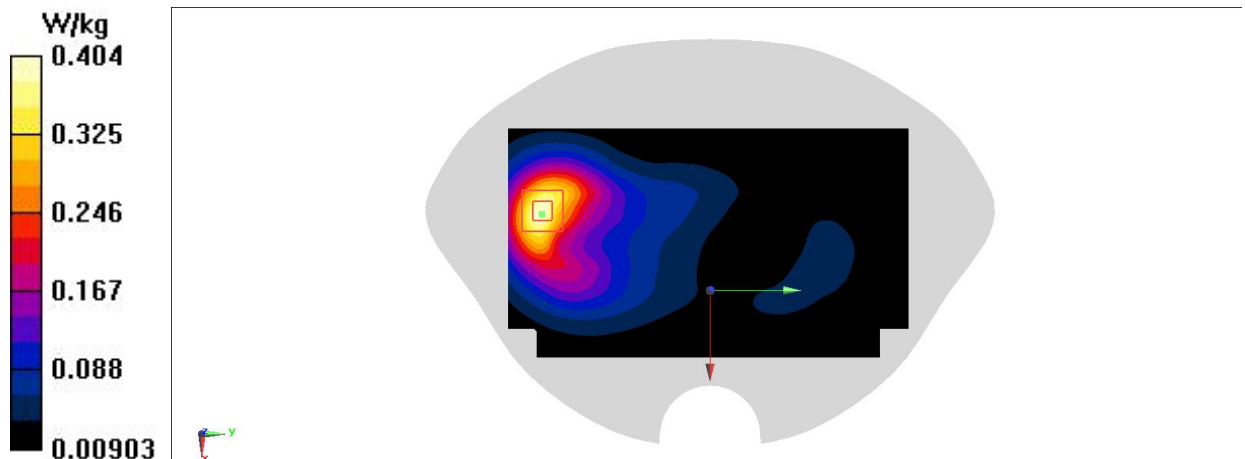


Fig A.19

WCDMA1700 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 41.888$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.22, 8.22, 8.22); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.437 W/kg

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

Reference Value = 13.80 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.519 W/kg

SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.441 W/kg

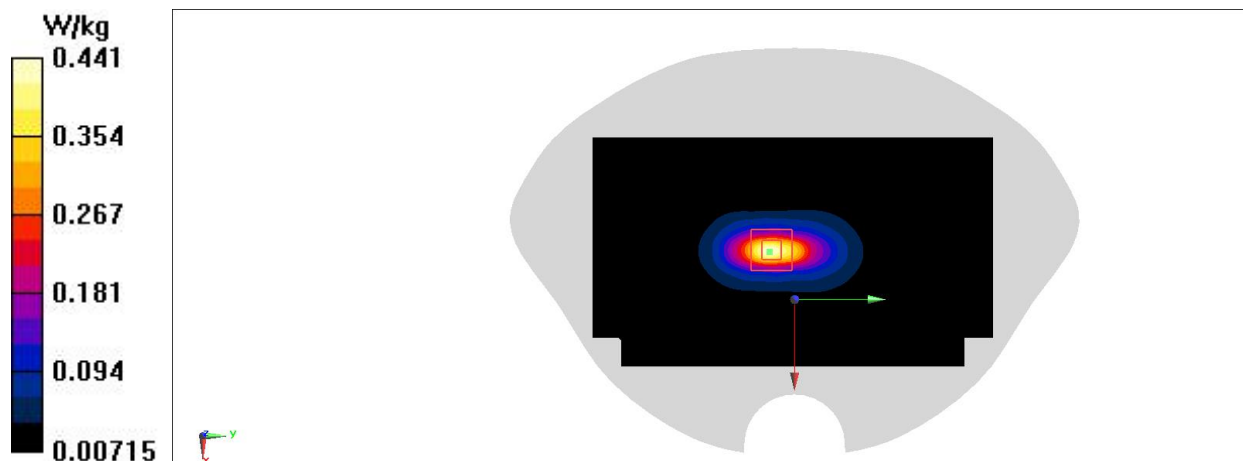


Fig A.20

WCDMA1700 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 41.888$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.22, 8.22, 8.22); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.578 W/kg

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

Reference Value = 4.983 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.234 W/kg

Maximum value of SAR (measured) = 0.574 W/kg

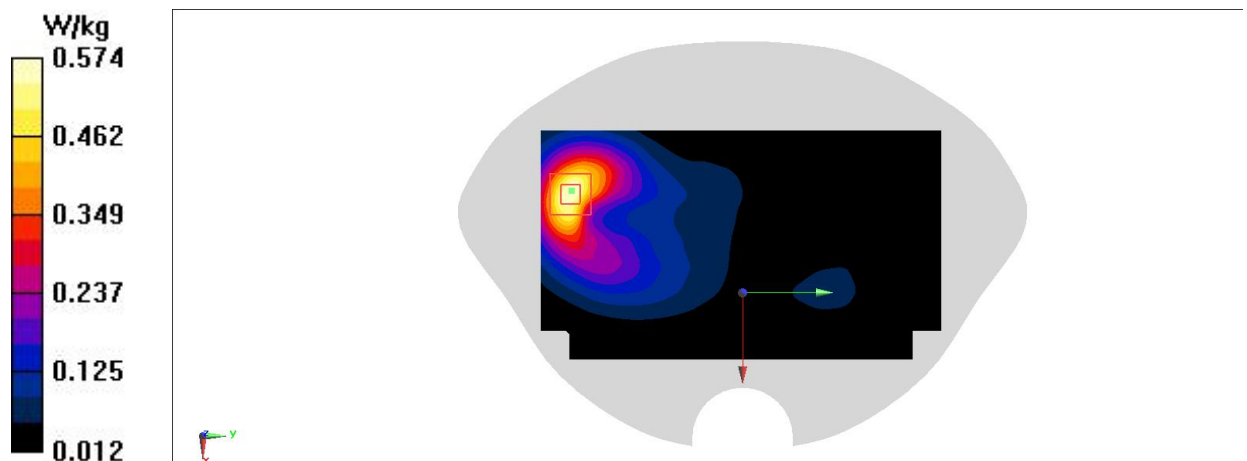


Fig A.21

WCDMA850 Body ANT13

Date/Time: 12/31/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.836$ S/m; $\epsilon_r = 43.854$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, WCDMA 850 (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.323 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.48 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.403 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.328 W/kg

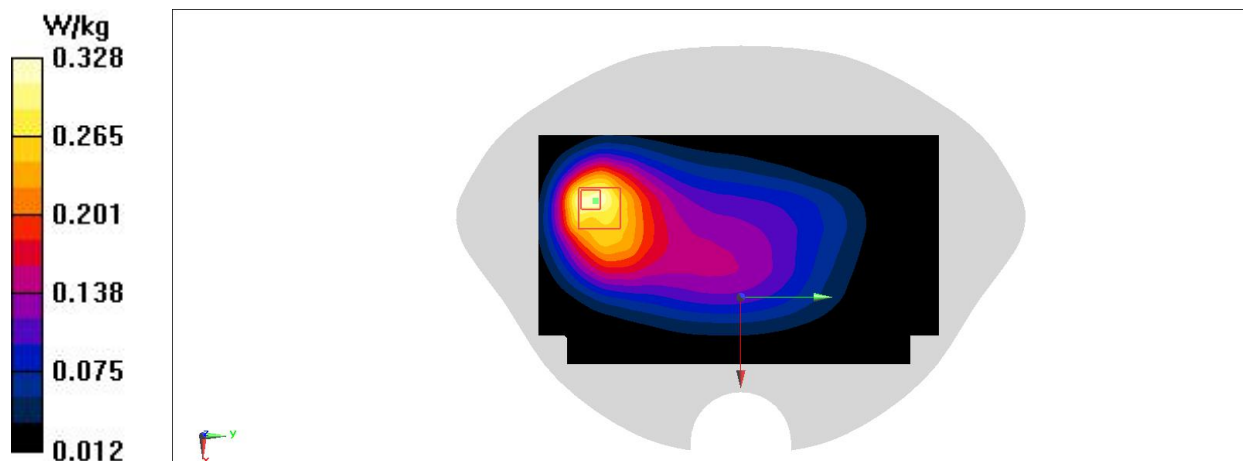


Fig A.22

LTE Band2 Body ANT13

Date/Time: 12/30/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.346$ S/m; $\epsilon_r = 41.712$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band2(20MB) (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.559 W/kg

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

Reference Value = 14.80 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.733 W/kg

SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.612 W/kg

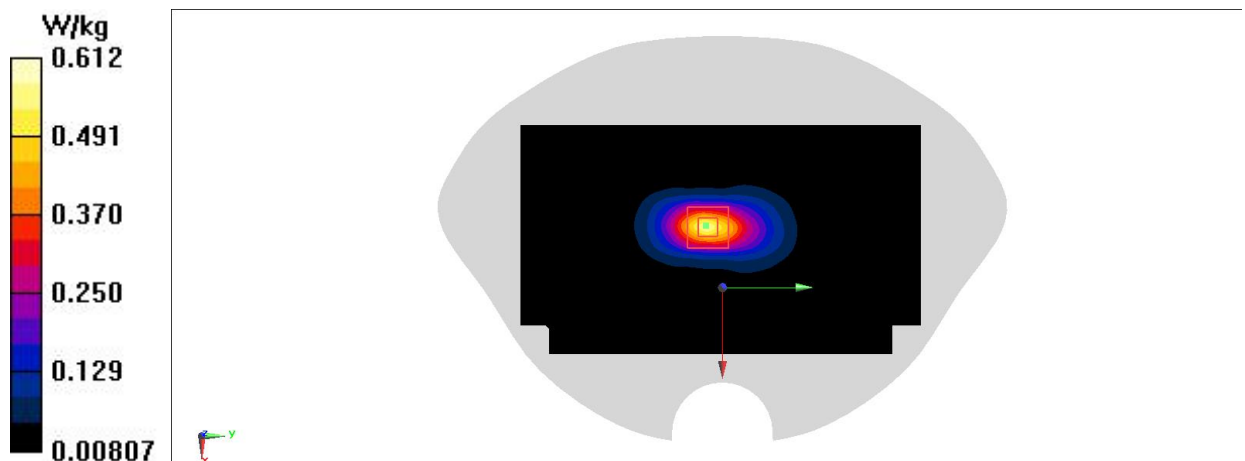


Fig A.23

LTE Band2 Body ANT13

Date/Time: 12/28/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 41.80$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band2(20MB) (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.81, 7.81, 7.81); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.541 W/kg

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

Reference Value = 5.057 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.636 W/kg

SAR(1 g) = 0.379 W/kg; SAR(10 g) = 0.216 W/kg

Maximum value of SAR (measured) = 0.546 W/kg

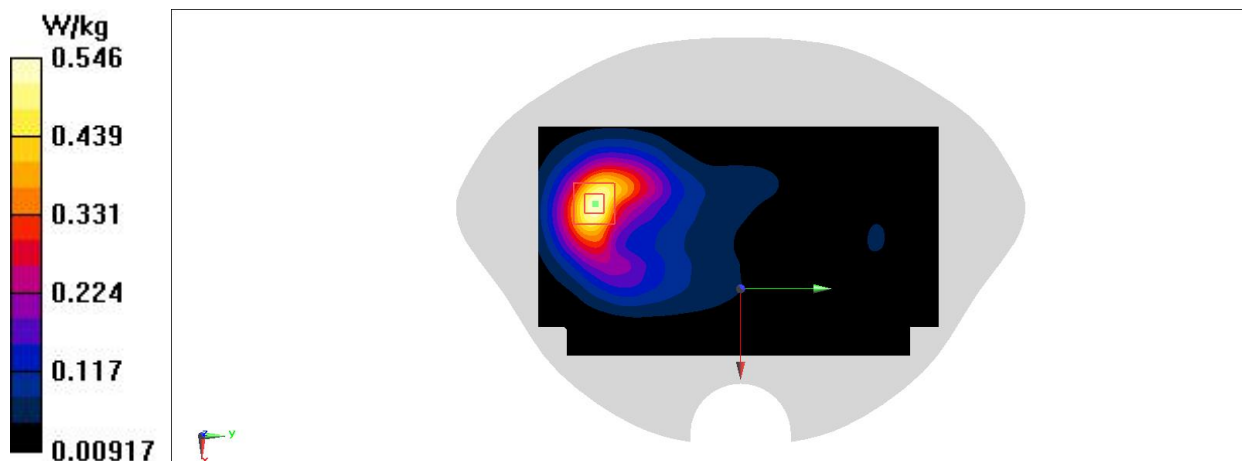


Fig A.24

LTE Band4 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.317$ S/m; $\epsilon_r = 41.958$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band4 (0) Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.22, 8.22, 8.22); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.488 W/kg

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

Reference Value = 13.69 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.621 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.528 W/kg

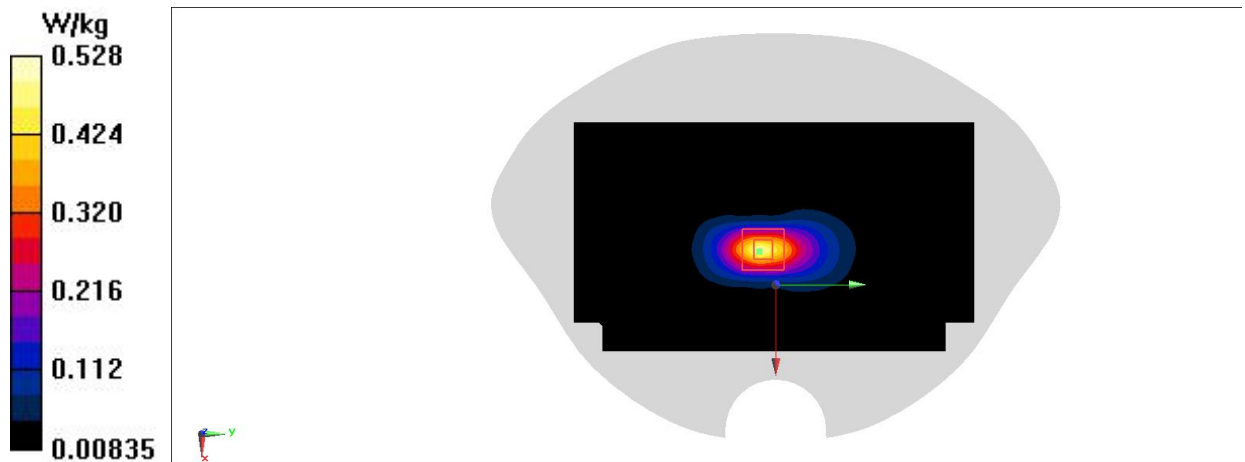


Fig A.25

LTE Band4 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.317$ S/m; $\epsilon_r = 41.958$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band4 (0) Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.22, 8.22, 8.22); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.652 W/kg

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

Reference Value = 5.907 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.851 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.280 W/kg

Maximum value of SAR (measured) = 0.728 W/kg

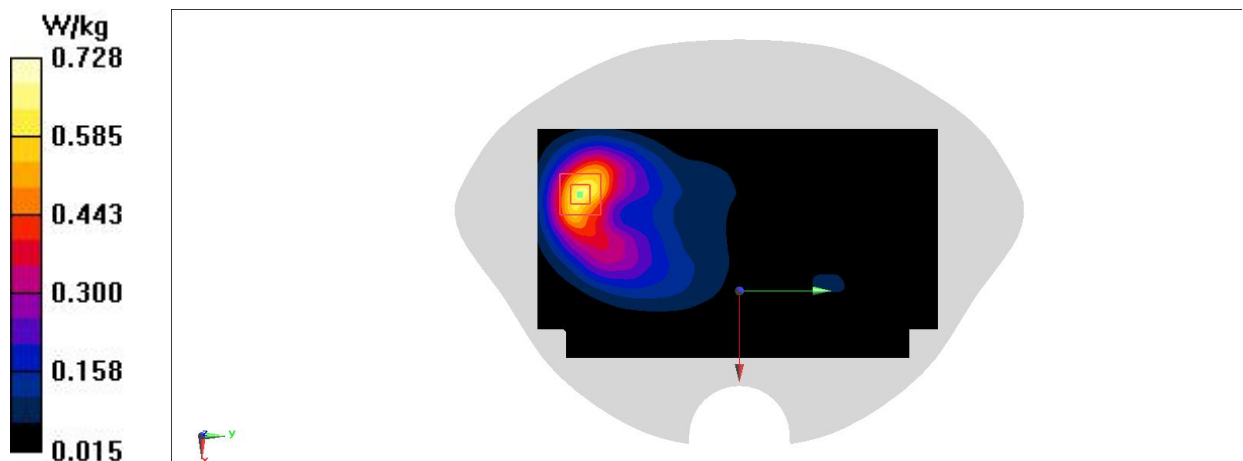


Fig A.26

LTE Band5 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 829 \text{ MHz}$; $\sigma = 0.855 \text{ S/m}$; $\epsilon_r = 43.871$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band5 (0) Frequency: 829 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

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

Maximum value of SAR (interpolated) = 0.240 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.87 V/m ; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.282 W/kg

SAR(1 g) = 0.166 W/kg ; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.229 W/kg

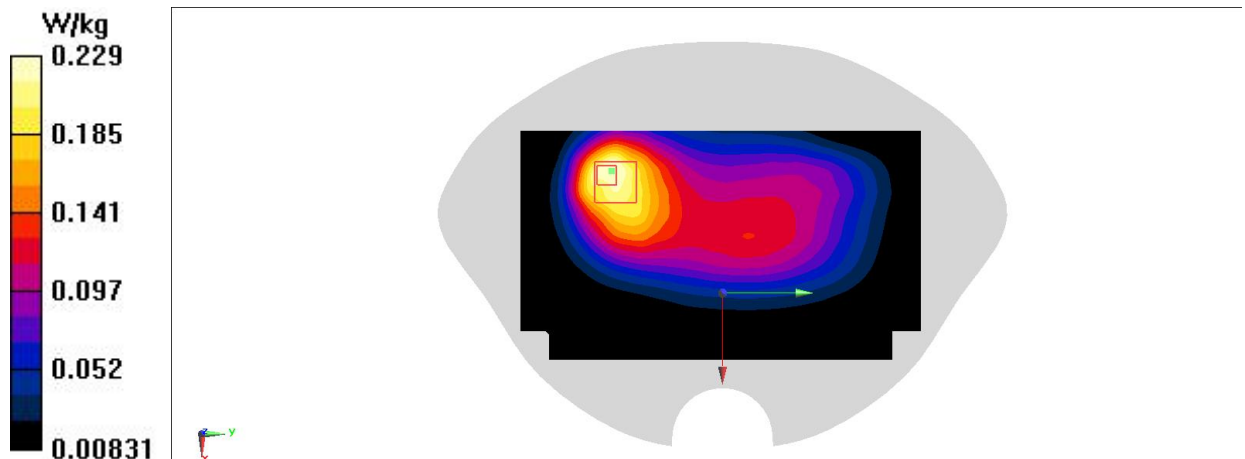


Fig A.27

LTE Band7 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.979$ S/m; $\epsilon_r = 38.159$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band7-20M (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.628 W/kg

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

Reference Value = 10.23 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.601 W/kg

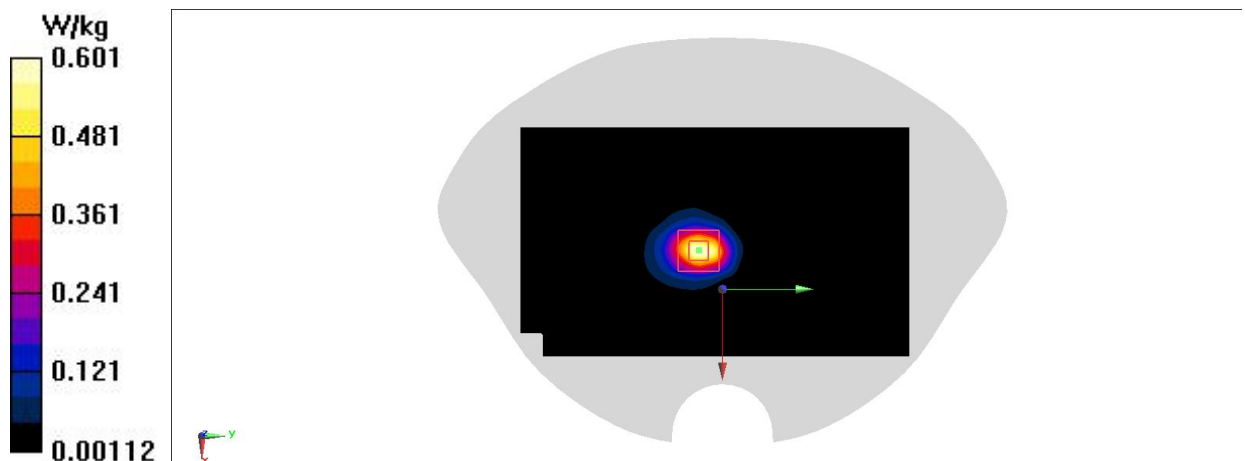


Fig A.28

LTE Band7 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.979$ S/m; $\epsilon_r = 38.159$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band7-20M (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.857 W/kg

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

Reference Value = 3.112 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.553 W/kg; SAR(10 g) = 0.258 W/kg

Maximum value of SAR (measured) = 0.843 W/kg

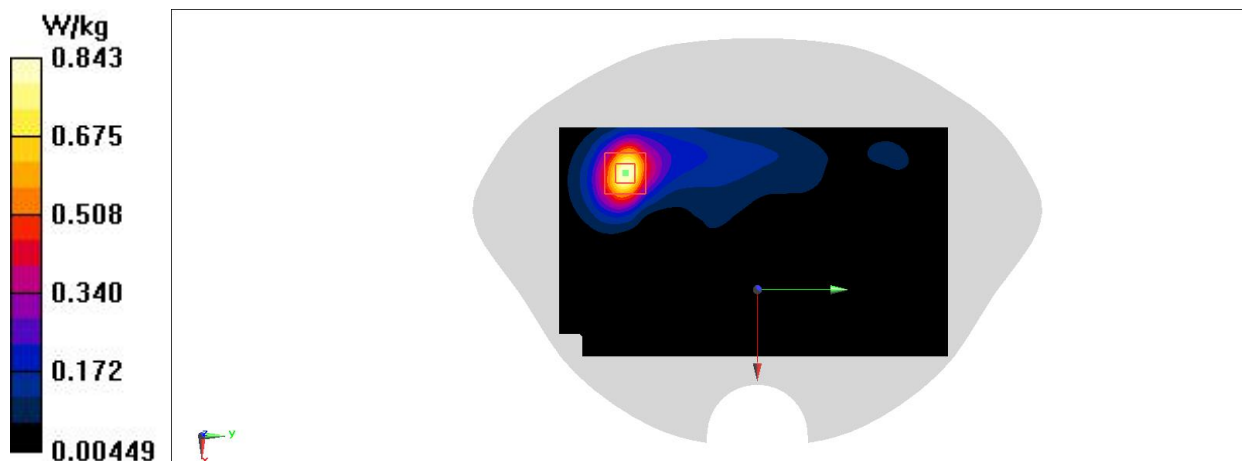


Fig A.29

LTE Band12 Body ANT13

Date/Time: 12/31/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 704 \text{ MHz}$; $\sigma = 0.808 \text{ S/m}$; $\epsilon_r = 44.542$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band12 (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.81, 9.81, 9.81); Calibrated: 2/3/2021

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

Maximum value of SAR (interpolated) = 0.133 W/kg

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

Reference Value = 11.19 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.111 W/kg ; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.132 W/kg

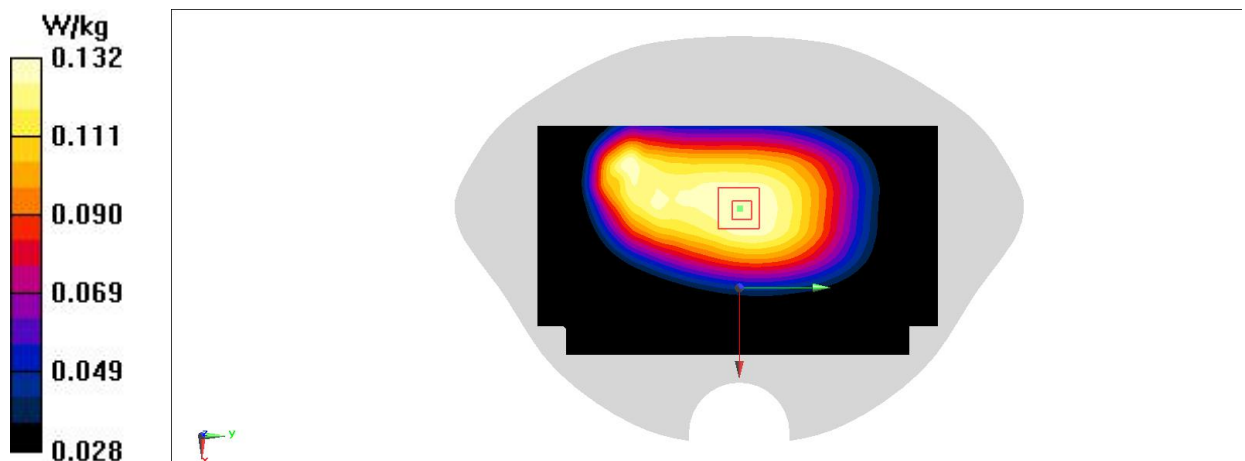


Fig A.30

LTE Band38 Body ANT13

Date/Time: 1/10/2022

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.948$ S/m; $\epsilon_r = 40.339$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band38 20M (0) Frequency: 2580 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.427 W/kg

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

Reference Value = 7.899 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.401 W/kg

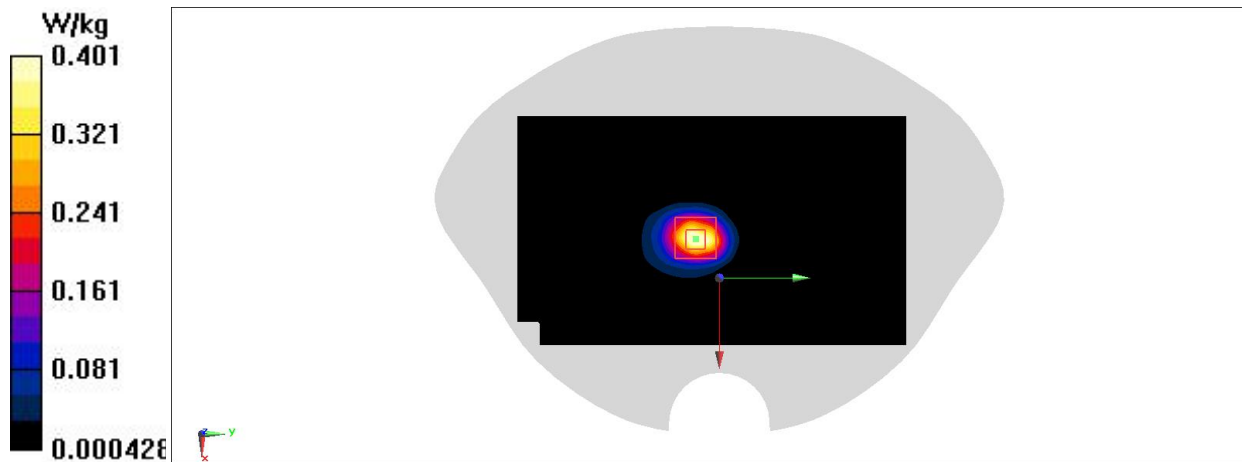


Fig A.31

LTE Band38 Body ANT13

Date/Time: 1/10/2022

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.975$ S/m; $\epsilon_r = 40.251$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band38 20M (0) Frequency: 2610 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.515 W/kg

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

Reference Value = 3.489 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.532 W/kg

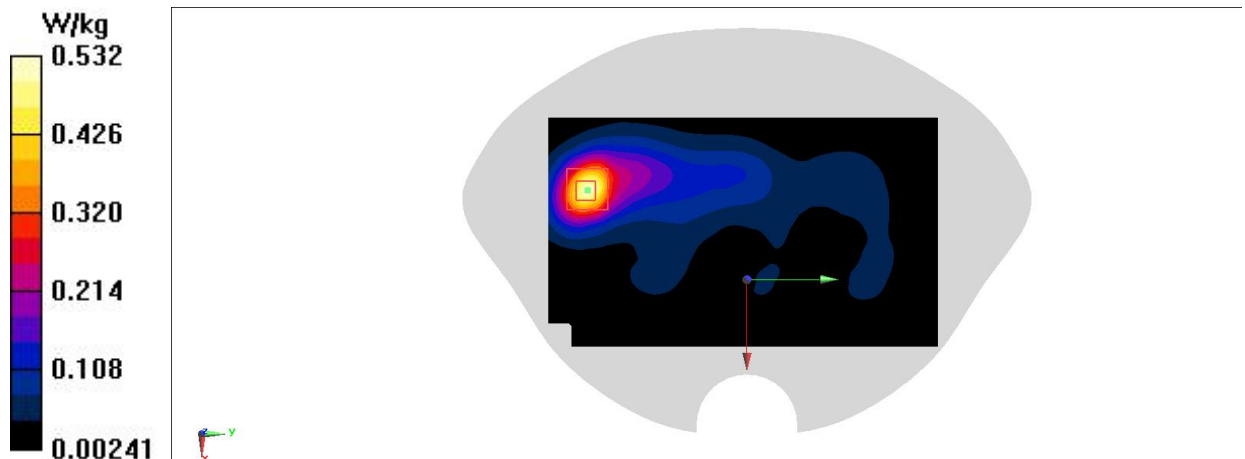


Fig A.32

LTE Band41 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.091$ S/m; $\epsilon_r = 37.843$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band41 (0) Frequency: 2680 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.231 W/kg

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

Reference Value = 5.255 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.290 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.056 W/kg

Maximum value of SAR (measured) = 0.231 W/kg

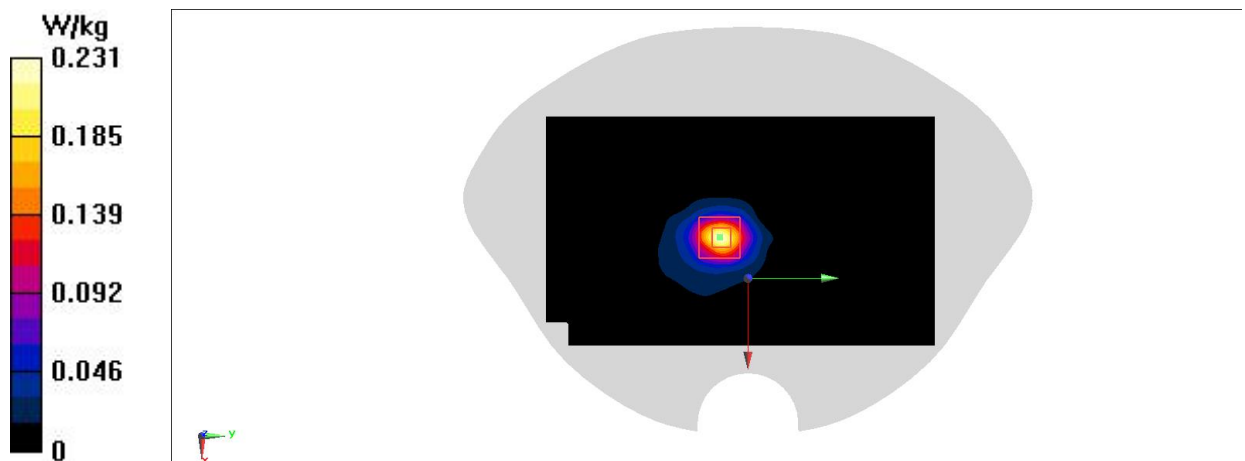


Fig A.33

LTE Band41 Body ANT13

Date/Time: 12/29/2021

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2636.5$ MHz; $\sigma = 2.051$ S/m; $\epsilon_r = 37.983$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, LTE Band41 (0) Frequency: 2636.5 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7517 ConvF(7.10, 7.10, 7.10); Calibrated: 2/3/2021

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.476 W/kg

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

Reference Value = 3.841 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.480 W/kg

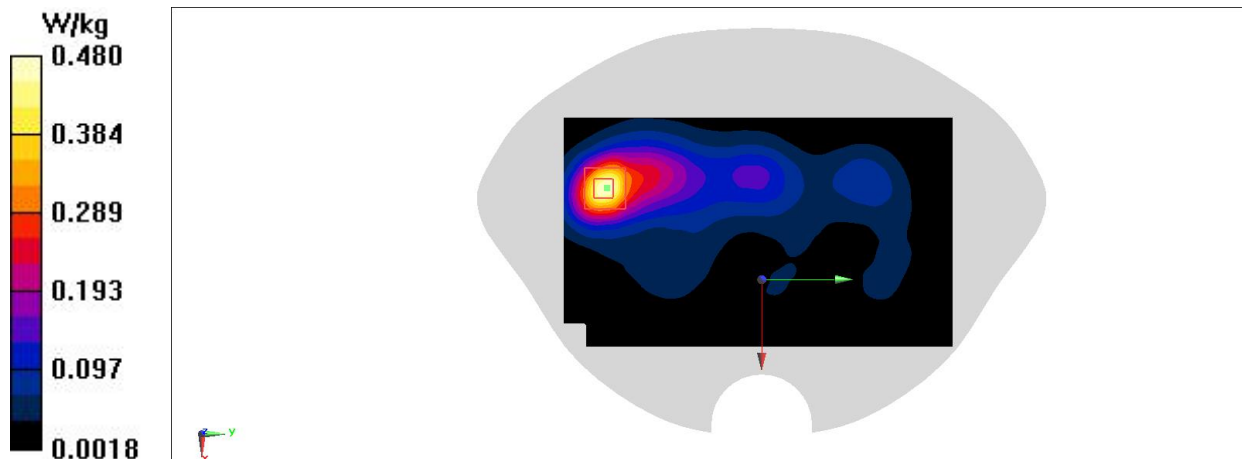


Fig A.34

CDMA BC0 Head ANT41

Date/Time: 12/23/2021

Electronics: DAE4 Sn1525

Medium: H700-6000

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 43.956$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C

Communication System: UID 0, CDMA BC0 (0) Frequency: 848.31 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7517 ConvF(9.40, 9.40, 9.40); Calibrated: 2/3/2021

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.201 W/kg

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

Reference Value = 4.268 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.198 W/kg

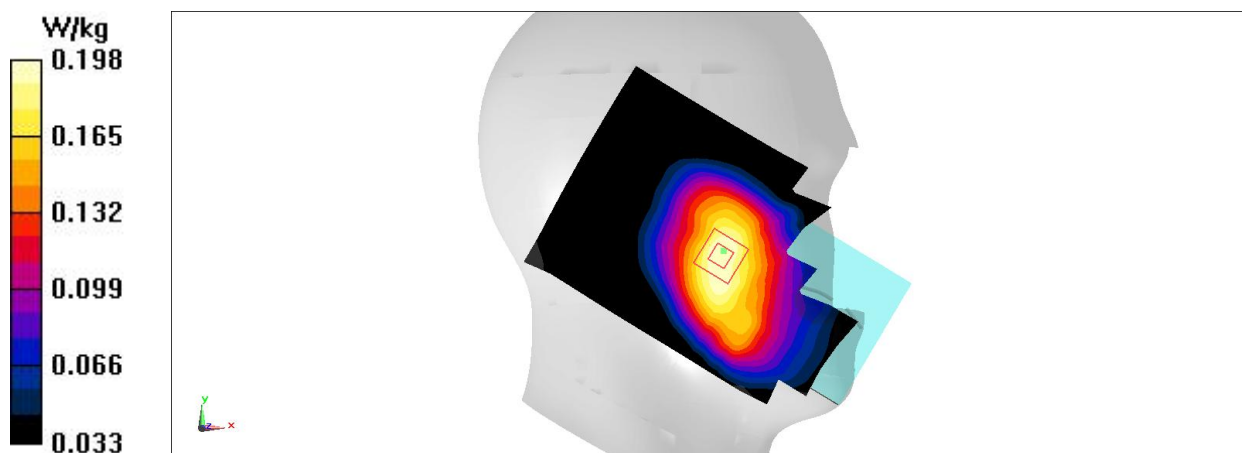


Fig A.35