

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	96.67%	1.034	0.848	0.02	17.58	18.00	1.102	0.966	22.2
Back side	802.11a	52/5260	96.67%	1.034	1.040	0.06	17.58	18.00	1.102	1.185	22.2
Right side	802.11a	52/5260	96.67%	1.034	0.667	0.01	17.58	18.00	1.102	0.760	22.2
Top side	802.11a	52/5260	96.67%	1.034	0.665	0.10	17.58	18.00	1.102	0.758	22.2
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	120/5600	96.67%	1.034	0.282	0.00	17.50	18.00	1.122	0.327	22.2
Back side	802.11a	120/5600	96.67%	1.034	1.240	0.03	17.50	18.00	1.122	1.439	22.2
Right side	802.11a	120/5600	96.67%	1.034	0.661	0.04	17.50	18.00	1.122	0.767	22.2
Top side	802.11a	120/5600	96.67%	1.034	0.336	0.01	17.50	18.00	1.122	0.390	22.2
MIMO Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	52/5260	97.59%	1.025	0.922	0.05	15.89	16.50	1.151	1.087	22.2
Left cheek-repeat	802.11a	52/5260	97.59%	1.025	0.912	0.01	15.89	16.50	1.151	1.075	22.2
Left cheek	802.11a	60/5300	97.59%	1.025	0.580	0.02	15.66	16.50	1.213	0.721	22.2
Left tilted	802.11a	52/5260	97.59%	1.025	0.504	0.01	15.89	16.50	1.151	0.594	22.2
Right cheek	802.11a	52/5260	97.59%	1.025	0.241	0.08	15.89	16.50	1.151	0.284	22.2
Right tilted	802.11a	52/5260	97.59%	1.025	0.242	0.01	15.89	16.50	1.151	0.285	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	120/5600	97.59%	1.025	0.304	0.01	15.76	16.50	1.186	0.369	22.2
Left tilted	802.11a	120/5600	97.59%	1.025	0.231	0.07	15.76	16.50	1.186	0.281	22.2
Right cheek	802.11a	120/5600	97.59%	1.025	0.102	0.03	15.76	16.50	1.186	0.124	22.2
Right tilted	802.11a	120/5600	97.59%	1.025	0.103	0.06	15.76	16.50	1.186	0.125	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	97.59%	1.025	0.352	0.16	15.08	16.50	1.387	0.500	22.2
Left tilted	802.11a	157/5785	97.59%	1.025	0.320	0.11	15.08	16.50	1.387	0.455	22.2
Right cheek	802.11a	157/5785	97.59%	1.025	0.147	0.05	15.08	16.50	1.387	0.209	22.2
Right tilted	802.11a	157/5785	97.59%	1.025	0.135	0.05	15.08	16.50	1.387	0.192	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	97.59%	1.025	0.307	0.01	19.98	21.00	1.265	0.398	22.2
Back side	802.11a	52/5260	97.59%	1.025	0.573	0.05	19.98	21.00	1.265	0.743	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	120/5600	97.59%	1.025	0.160	-0.02	20.03	21.00	1.250	0.205	22.2
Back side	802.11a	120/5600	97.59%	1.025	0.246	-0.09	20.03	21.00	1.250	0.315	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	97.59%	1.025	0.193	-0.02	20.39	21.00	1.151	0.228	22.2
Back side	802.11a	157/5785	97.59%	1.025	0.525	0.09	20.39	21.00	1.151	0.619	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	36/5180	97.59%	1.025	0.482	0.02	19.83	21.00	1.309	0.647	22.2
Back side	802.11a	36/5180	97.59%	1.025	0.586	-0.03	19.83	21.00	1.309	0.786	22.2
Right side	802.11a	36/5180	97.59%	1.025	0.571	-0.03	19.83	21.00	1.309	0.766	22.2
Top side	802.11a	36/5180	97.59%	1.025	0.234	0.02	19.83	21.00	1.309	0.314	22.2



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Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	97.59%	1.025	0.352	0.13	20.39	21.00	1.151	0.415	22.2
Back side	802.11a	157/5785	97.59%	1.025	0.924	0.09	20.39	21.00	1.151	1.090	22.2
Back side-repeat	802.11a	157/5785	97.59%	1.025	0.917	0.06	20.39	21.00	1.151	1.081	22.2
Back side	802.11a	149/5745	97.59%	1.025	0.827	0.06	20.13	21.00	1.222	1.035	22.2
Right side	802.11a	157/5785	97.59%	1.025	0.845	0.14	20.39	21.00	1.151	0.996	22.2
Right side	802.11a	149/5745	97.59%	1.025	0.791	0.05	20.13	21.00	1.222	0.990	22.2
Top side	802.11a	157/5785	97.59%	1.025	0.439	0.09	20.39	21.00	1.151	0.518	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	97.59%	1.025	0.967	-0.02	19.98	21.00	1.265	1.253	22.2
Back side	802.11a	52/5260	97.59%	1.025	0.998	0.01	19.98	21.00	1.265	1.293	22.2
Right side	802.11a	52/5260	97.59%	1.025	1.270	-0.07	19.98	21.00	1.265	1.646	22.2
Top side	802.11a	52/5260	97.59%	1.025	0.672	0.02	19.98	21.00	1.265	0.871	22.2
Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	120/5600	97.59%	1.025	0.797	0.00	20.03	21.00	1.250	1.021	22.2
Back side	802.11a	120/5600	97.59%	1.025	1.550	0.01	20.03	21.00	1.250	1.986	22.2
Right side	802.11a	120/5600	97.59%	1.025	1.860	-0.03	20.03	21.00	1.250	2.383	22.2
Right side	802.11a	100/5500	97.59%	1.025	1.770	-0.19	19.84	21.00	1.306	2.369	22.2
Top side	802.11a	120/5600	97.59%	1.025	0.503	0.01	20.03	21.00	1.250	0.644	22.2
Additional Test data(simultaneous transmission with WWAN + WiFi 5G MIMO Receiver off)											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	60/5300	97.59%	1.025	0.469	0.08	13.56	14.50	1.242	0.597	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Back side	802.11a	157/5785	97.59%	1.025	0.620	0.02	18.25	19.50	1.334	0.847	22.2

Table 38: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Each channel was tested at the lowest data rate.
- 4) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- 5) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 6) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.14 SAR Result of BT

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	DH5	39/2441	76.86%	1.301	0.123	0.19	9.61	10.00	1.094	0.175	22
Left tilted	DH5	39/2441	76.86%	1.301	0.033	0.01	9.61	10.00	1.094	0.047	22
Right cheek	DH5	39/2441	76.86%	1.301	0.053	0.06	9.61	10.00	1.094	0.076	22
Right tilted	DH5	39/2441	76.86%	1.301	0.014	0.07	9.61	10.00	1.094	0.020	22
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.86%	1.301	0.013	0.09	9.61	10.00	1.094	0.019	22
Back side	DH5	39/2441	76.86%	1.301	0.014	0.08	9.61	10.00	1.094	0.020	22
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.86%	1.301	0.029	0.01	9.61	10.00	1.094	0.041	22
Back side	DH5	39/2441	76.86%	1.301	0.036	0.02	9.61	10.00	1.094	0.051	22
Right side	DH5	39/2441	76.86%	1.301	0.053	0.04	9.61	10.00	1.094	0.075	22
Top side	DH5	39/2441	76.86%	1.301	0.006	-0.03	9.61	10.00	1.094	0.009	22

Table 39: SAR of BT for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

- **Simultaneous Transmission Possibilities**

NO	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	GSM Voice_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
2	GSM Voice_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
3	GSM Voice_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
4	GSM Voice_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
5	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
6	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
7	GSM Voice_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
8	GSM Voice_ANT4/1 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
9	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
10	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
11	GSM Voice_ANT5/10+ WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
12	GSM Voice_ANT4/1 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
13	GSM Voice_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
14	GSM Voice_ANT4/1 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
15	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
16	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
17	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
18	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
19	GSM Voice_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
20	GSM Voice_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
21	GSM Voice_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
22	GSM Voice_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
23	GPRS/EDGE_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
24	GPRS/EDGE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
25	GPRS/EDGE_ANT5/10+ BT CH0_ANT8	Y	Y	N	Y
26	GPRS/EDGE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
27	GPRS/EDGE_ANT5/10+ WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
28	GPRS/EDGE_ANT4/1 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
29	GPRS/EDGE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y



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30	GPRS/EDGE_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
31	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
32	GPRS/EDGE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
33	GPRS/EDGE_ANT5/10 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
34	GPRS/EDGE_ANT4/1 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
35	GPRS/EDGE_ANT5/10 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
36	GPRS/EDGE_ANT4/1 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
37	GPRS/EDGE_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
38	GPRS/EDGE_ANT4/1 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
39	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
40	GPRS/EDGE_ANT4/1+ WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
41	GPRS/EDGE_ANT5/10 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
42	GPRS/EDGE_ANT4/1 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
43	GPRS/EDGE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
44	GPRS/EDGE_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
45	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
46	GPRS/EDGE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
47	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
48	GPRS/EDGE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
49	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
50	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
51	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
52	GPRS/EDGE_ANT4/1+ BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
53	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
54	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
55	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
56	GPRS/EDGE_ANT4/1+ BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
57	GPRS/EDGE_ANT5/10+ BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
58	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
59	GPRS/EDGE_ANT5/10+ BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
60	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
61	UMTS_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
62	UMTS_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
63	UMTS_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
64	UMTS_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
65	UMTS_ANT5/10 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y



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66	UMTS_ANT4/1 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
67	UMTS_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
68	UMTS_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
69	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
70	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
71	UMTS_ANT5/10 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
72	UMTS_ANT4/1 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
73	UMTS_ANT5/10 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
74	UMTS_ANT4/1 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
75	UMTS_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
76	UMTS_ANT4/1 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
77	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
78	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
79	UMTS_ANT5/10 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
80	UMTS_ANT4/1+ WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
81	UMTS_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
82	UMTS_ANT4/1 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
83	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
84	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
85	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
86	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
87	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
88	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
89	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
90	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
91	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
92	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
93	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
94	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
95	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
96	UMTS_ANT4/1+ BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
97	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
98	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
99	LTE_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
100	LTE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
101	LTE_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y



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102	LTE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
103	LTE_ANT5/10 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
104	LTE_ANT4/1 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
105	LTE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
106	LTE_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
107	LTE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
108	LTE_ANT4/1+ WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
109	LTE_ANT5/10 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
110	LTE_ANT4/1+ WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
111	LTE_ANT5/10 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
112	LTE_ANT4/1 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
113	LTE_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
114	LTE_ANT4/1+ WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
115	LTE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
116	LTE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
117	LTE_ANT5/10+ WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
118	LTE_ANT4/1 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
119	LTE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
120	LTE_ANT4/1 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
121	LTE_ANT5/10+ WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
122	LTE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
123	LTE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
124	LTE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
125	LTE_ANT5/10+ BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
126	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
127	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
128	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
129	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
130	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
131	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
132	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
133	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
134	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
135	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
136	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
137	WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y



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138	WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
139	WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
140	WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
141	WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
142	WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
143	WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
144	BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	Y	Y
145	BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	Y	Y
146	BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
147	BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
148	BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
149	BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Head Ant1:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1	2	3	4	5	6									
		Ant1	WiFi 2.4G Ant1(chian0)	WiFi 2.4G MIMO	WiFi 5G Ant7(chian1)	WiFi 5G MIMO	BT									
GSM850	Left Touch	0.153	0.333	0.426	0.506	0.597	0.175	0.486	0.579	0.659	0.750	0.328	0.681	0.772	0.834	0.925
	Left Tilt	0.065	0.076	0.222	0.429	0.594	0.047	0.141	0.287	0.494	0.659	0.112	0.476	0.641	0.541	0.706
	Right Touch	0.119	0.130	0.139	0.219	0.284	0.076	0.249	0.258	0.338	0.403	0.195	0.295	0.360	0.414	0.479
WCDMA Band V	Right Tilt	0.067	0.022	0.169	0.180	0.285	0.020	0.089	0.236	0.247	0.352	0.087	0.200	0.305	0.267	0.372
	Left Touch	0.163	0.333	0.426	0.506	0.597	0.175	0.496	0.589	0.669	0.760	0.338	0.681	0.772	0.844	0.935
	Left Tilt	0.069	0.076	0.222	0.429	0.594	0.047	0.145	0.291	0.498	0.663	0.116	0.476	0.641	0.545	0.710
LTE Band 5	Right Touch	0.125	0.130	0.139	0.219	0.284	0.076	0.255	0.264	0.344	0.409	0.201	0.295	0.360	0.420	0.485
	Right Tilt	0.069	0.022	0.169	0.180	0.285	0.020	0.091	0.238	0.249	0.354	0.089	0.200	0.305	0.269	0.374
	Left Touch	0.116	0.333	0.426	0.506	0.597	0.175	0.449	0.542	0.622	0.713	0.291	0.681	0.772	0.797	0.888
LTE Band 5	Left Tilt	0.051	0.076	0.222	0.429	0.594	0.047	0.127	0.273	0.480	0.645	0.098	0.476	0.641	0.527	0.692
	Right Touch	0.094	0.130	0.139	0.219	0.284	0.076	0.224	0.233	0.313	0.378	0.170	0.295	0.360	0.389	0.454
	Right Tilt	0.098	0.022	0.169	0.180	0.285	0.020	0.120	0.267	0.278	0.383	0.118	0.200	0.305	0.298	0.403

Head Ant4:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1	2	3	4	5	6									
		Ant4	WiFi 2.4G Ant1(chian0)	WiFi 2.4G MIMO	WiFi 5G Ant7(chian1)	WiFi 5G MIMO	BT									
GSM850	Left Touch	0.471	0.333	0.426	0.506	0.597	0.175	0.804	0.897	0.977	1.068	0.646	0.681	0.772	1.152	1.243
	Left Tilt	0.516	0.076	0.222	0.429	0.594	0.047	0.592	0.738	0.945	1.110	0.563	0.476	0.641	0.992	1.157
	Right Touch	0.606	0.130	0.139	0.219	0.284	0.076	0.736	0.745	0.825	0.890	0.682	0.295	0.360	0.901	0.966
WCDMA Band V	Right Tilt	0.732	0.022	0.169	0.180	0.285	0.020	0.754	0.901	0.912	1.017	0.752	0.200	0.305	0.932	1.037
	Left Touch	0.796	0.333	0.426	0.506	0.597	0.175	1.129	1.222	1.302	1.393	0.971	0.681	0.772	1.477	1.568
	Left Tilt	0.834	0.076	0.222	0.429	0.594	0.047	0.910	1.056	1.263	1.428	0.881	0.476	0.641	1.310	1.475
LTE Band 5	Right Touch	1.031	0.130	0.139	0.219	0.284	0.076	1.161	1.170	1.250	1.315	1.107	0.295	0.360	1.326	1.391
	Right Tilt	0.989	0.022	0.169	0.180	0.285	0.020	1.011	1.158	1.169	1.274	1.009	0.200	0.305	1.189	1.294
	Left Touch	0.759	0.333	0.426	0.506	0.597	0.175	1.092	1.185	1.265	1.356	0.934	0.681	0.772	1.440	1.531
LTE Band 5	Left Tilt	0.743	0.076	0.222	0.429	0.594	0.047	0.819	0.965	1.172	1.337	0.790	0.476	0.641	1.219	1.384
	Right Touch	0.920	0.130	0.139	0.219	0.284	0.076	1.050	1.059	1.139	1.204	0.996	0.295	0.360	1.215	1.280
	Right Tilt	0.829	0.022	0.169	0.180	0.285	0.020	0.851	0.998	1.009	1.114	0.849	0.200	0.305	1.029	1.134

Head Ant5:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1	2	3	4	5	6									
		Ant5	WiFi 2.4G Ant1(chian0)	WiFi 2.4G MIMO	WiFi 5G Ant7(chian1)	WiFi 5G MIMO	BT									
GSM1900	Left Touch	0.313	0.333	0.426	0.506	0.597	0.175	0.646	0.739	0.819	0.910	0.488	0.681	0.772	0.994	1.085
	Left Tilt	0.142	0.076	0.222	0.429	0.594	0.047	0.218	0.364	0.571	0.736	0.189	0.476	0.641	0.618	0.783
	Right Touch	0.843	0.130	0.139	0.219	0.284	0.076	0.973	0.982	1.062	1.127	0.919	0.295	0.360	1.138	1.203
WCDMA Band II	Right Tilt	0.203	0.022	0.169	0.180	0.285	0.020	0.225	0.372	0.383	0.488	0.223	0.200	0.305	0.403	0.508
	Left Touch	0.259	0.333	0.426	0.506	0.597	0.175	0.592	0.685	0.765	0.856	0.434	0.681	0.772	0.940	1.031
	Left Tilt	0.113	0.076	0.222	0.429	0.594	0.047	0.189	0.335	0.542	0.707	0.160	0.476	0.641	0.589	0.754
WCDMA Band IV	Right Touch	0.792	0.130	0.139	0.219	0.284	0.076	0.922	0.931	1.011	1.076	0.868	0.295	0.360	1.087	1.152
	Right Tilt	0.216	0.022	0.169	0.180	0.285	0.020	0.238	0.385	0.396	0.501	0.236	0.200	0.305	0.416	0.521
	Left Touch	0.225	0.333	0.426	0.506	0.597	0.175	0.558	0.651	0.731	0.822	0.400	0.681	0.772	0.906	0.997
LTE Band 2	Left Tilt	0.123	0.076	0.222	0.429	0.594	0.047	0.199	0.345	0.552	0.717	0.170	0.476	0.641	0.599	0.764
	Right Touch	0.907	0.130	0.139	0.219	0.284	0.076	1.037	1.046	1.126	1.191	0.983	0.295	0.360	1.202	1.267
	Right Tilt	0.168	0.022	0.169	0.180	0.285	0.020	0.190	0.337	0.348	0.453	0.188	0.200	0.305	0.368	0.473
LTE Band 4	Left Touch	0.336	0.333	0.426	0.506	0.597	0.175	0.669	0.762	0.842	0.933	0.511	0.681	0.772	1.017	1.108
	Left Tilt	0.104	0.076	0.222	0.429	0.594	0.047	0.180	0.326	0.533	0.698	0.151	0.476	0.641	0.580	0.745
	Right Touch	0.790	0.130	0.139	0.219	0.284	0.076	0.920	0.929	1.009	1.074	0.866	0.295	0.360	1.085	1.150
LTE Band 7	Right Tilt	0.131	0.022	0.169	0.180	0.285	0.020	0.153	0.300	0.311	0.416	0.151	0.200	0.305	0.331	0.436
	Left Touch	0.281	0.333	0.426	0.506	0.597	0.175	0.614	0.707	0.787	0.878	0.456	0.681	0.772	0.962	1.053
	Left Tilt	0.087	0.076	0.222	0.429	0.594	0.047	0.163	0.309	0.516	0.681	0.134	0.476	0.641	0.563	0.728
LTE Band 41	Right Touch	0.638	0.130	0.139	0.219	0.284	0.076	0.768	0.777	0.857	0.922	0.714	0.295	0.360	0.933	0.998
	Right Tilt	0.122	0.022	0.169	0.180	0.285	0.020	0.144	0.291	0.302	0.407	0.142	0.200	0.305	0.322	0.427
	Left Touch	0.169	0.333	0.426	0.506	0.597	0.175	0.502	0.595	0.675	0.766	0.344	0.681	0.772	0.850	0.941
LTE Band 38	Left Tilt	0.053	0.076	0.222	0.429	0.594	0.047	0.129	0.275	0.482	0.647	0.100	0.476	0.641	0.529	0.694
	Right Touch	0.506	0.130	0.139	0.219	0.284	0.076	0.636	0.645	0.725	0.790	0.582	0.295	0.360	0.801	0.866
	Right Tilt	0.104	0.022	0.169	0.180	0.285	0.020	0.126	0.273	0.284	0.389	0.124	0.200	0.305	0.304	0.409
LTE Band 38	Left Touch	0.212	0.333	0.426	0.506	0.597	0.175	0.545	0.638	0.718	0.809	0.387	0.681	0.772	0.893	0.984
	Left Tilt	0.073	0.076	0.222	0.429	0.594	0.047	0.149	0.295	0.502	0.667	0.120	0.476	0.641	0.549	0.714
	Right Touch	0.580	0.130	0.139	0.219	0.284	0.076	0.710	0.719	0.799	0.864	0.656	0.295	0.360	0.875	0.940
LTE Band 41	Right Tilt	0.128	0.022	0.169	0.180	0.285	0.020	0.150	0.297	0.308	0.413	0.148	0.200	0.305	0.328	0.433
	Left Touch	0.179	0.333	0.426	0.506	0.597	0.175	0.512	0.605	0.685	0.776	0.354	0.681	0.772	0.860	0.951
	Left Tilt	0.055	0.076	0.222	0.429	0.594	0.047	0.131	0.277	0.484	0.649	0.102	0.476	0.641	0.531	0.696
LTE Band 41	Right Touch	0.510	0.130	0.139	0.219	0.284	0.076	0.640	0.649	0.729	0.794	0.586	0.295	0.360	0.805	0.870
	Right Tilt	0.096	0.022	0.169	0.180	0.285	0.020	0.118	0.265	0.276	0.381	0.116	0.200	0.305	0.296	0.401



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Head Ant10:

Table with 17 columns: Band, Exposure position, SARmax (W/kg) (Ant10, WiFi 2.4G, WiFi 2.4G MIMO, WiFi 5G, WiFi 5G MIMO, BT), Summed SAR (1+2), Summed SAR (1+3), Summed SAR (1+4), Summed SAR (1+5), Summed SAR (1+6), Summed SAR (4+6), Summed SAR (5+6), Summed SAR (1+4+6), Summed SAR (1+5+6)

Body-worn Ant1:

Table with 17 columns: Band, Exposure position, SARmax (W/kg) (Ant1, WiFi 2.4G, WiFi 2.4G MIMO, WiFi 5G, WiFi 5G MIMO, BT), Summed SAR (1+2), Summed SAR (1+3), Summed SAR (1+4), Summed SAR (1+5), Summed SAR (1+6), Summed SAR (4+6), Summed SAR (5+6), Summed SAR (1+4+6), Summed SAR (1+5+6)

Body-worn Ant4:

Table with 17 columns: Band, Exposure position, SARmax (W/kg) (Ant4, WiFi 2.4G, WiFi 2.4G MIMO, WiFi 5G, WiFi 5G MIMO, BT), Summed SAR (1+2), Summed SAR (1+3), Summed SAR (1+4), Summed SAR (1+5), Summed SAR (1+6), Summed SAR (4+6), Summed SAR (5+6), Summed SAR (1+4+6), Summed SAR (1+5+6)



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Body-worn Ant5:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1	2	3	4	5	6									
		Ant5	WiFi 2.4G Ant1(chian0)	WiFi 2.4G MIMO	WiFi 5G Ant7(chian1)	WiFi 5G MIMO	BT									
GSM1900	Front	0.118	0.106	0.186	0.243	0.398	0.019	0.224	0.304	0.361	0.516	0.137	0.262	0.417	0.380	0.535
	Back	0.180	0.168	0.231	0.737	0.743	0.020	0.348	0.411	0.917	0.923	0.200	0.757	0.763	0.937	0.943
WCDMA Band IV	Front	0.176	0.106	0.186	0.243	0.398	0.019	0.282	0.362	0.419	0.574	0.195	0.262	0.417	0.438	0.593
	Back	0.333	0.168	0.231	0.737	0.743	0.020	0.501	0.564	1.070	1.076	0.353	0.757	0.763	1.090	1.096
WCDMA Band II	Front	0.217	0.106	0.186	0.243	0.398	0.019	0.323	0.403	0.460	0.615	0.236	0.262	0.417	0.479	0.634
	Back	0.303	0.168	0.231	0.737	0.743	0.020	0.471	0.534	1.040	1.046	0.323	0.757	0.763	1.060	1.066
LTE Band 2	Front	0.172	0.106	0.186	0.243	0.398	0.019	0.278	0.358	0.415	0.570	0.191	0.262	0.417	0.434	0.589
	Back	0.327	0.168	0.231	0.737	0.743	0.020	0.495	0.558	1.064	1.070	0.347	0.757	0.763	1.084	1.090
LTE Band 4	Front	0.163	0.106	0.186	0.243	0.398	0.019	0.269	0.349	0.406	0.561	0.182	0.262	0.417	0.425	0.580
	Back	0.288	0.168	0.231	0.737	0.743	0.020	0.456	0.519	1.025	1.031	0.308	0.757	0.763	1.045	1.051
LTE Band 7	Front	0.223	0.106	0.186	0.243	0.398	0.019	0.329	0.409	0.466	0.621	0.242	0.262	0.417	0.485	0.640
	Back	0.280	0.168	0.231	0.737	0.743	0.020	0.448	0.511	1.017	1.023	0.300	0.757	0.763	1.037	1.043
LTE Band 38	Front	0.228	0.106	0.186	0.243	0.398	0.019	0.334	0.414	0.471	0.626	0.247	0.262	0.417	0.490	0.645
	Back	0.271	0.168	0.231	0.737	0.743	0.020	0.439	0.502	1.008	1.014	0.291	0.757	0.763	1.028	1.034
LTE Band 41	Front	0.181	0.106	0.186	0.243	0.398	0.019	0.287	0.367	0.424	0.579	0.200	0.262	0.417	0.443	0.598
	Back	0.221	0.168	0.231	0.737	0.743	0.020	0.389	0.452	0.958	0.964	0.241	0.757	0.763	0.978	0.984

Body-worn Ant10:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1	2	3	4	5	6									
		Ant10	WiFi 2.4G Ant1(chian0)	WiFi 2.4G MIMO	WiFi 5G Ant7(chian1)	WiFi 5G MIMO	BT									
GSM1900	Front	0.254	0.106	0.186	0.243	0.398	0.019	0.360	0.440	0.497	0.652	0.273	0.262	0.417	0.516	0.671
	Back	0.322	0.168	0.231	0.737	0.743	0.020	0.490	0.553	1.059	1.065	0.342	0.757	0.763	1.079	1.085
WCDMA Band IV	Front	0.421	0.106	0.186	0.243	0.398	0.019	0.527	0.607	0.664	0.819	0.440	0.262	0.417	0.683	0.838
	Back	0.493	0.168	0.231	0.737	0.743	0.020	0.661	0.724	1.230	1.236	0.513	0.757	0.763	1.250	1.256
WCDMA Band II	Front	0.550	0.106	0.186	0.243	0.398	0.019	0.656	0.736	0.793	0.948	0.569	0.262	0.417	0.812	0.967
	Back	0.657	0.168	0.231	0.737	0.743	0.020	0.825	0.888	1.394	1.400	0.677	0.757	0.763	1.414	1.420
LTE Band 2	Front	0.567	0.106	0.186	0.243	0.398	0.019	0.673	0.753	0.810	0.965	0.586	0.262	0.417	0.829	0.984
	Back	0.690	0.168	0.231	0.737	0.743	0.020	0.858	0.921	1.427	1.433	0.710	0.757	0.763	1.447	1.453
LTE Band 4	Front	0.410	0.106	0.186	0.243	0.398	0.019	0.516	0.596	0.653	0.808	0.429	0.262	0.417	0.672	0.827
	Back	0.493	0.168	0.231	0.737	0.743	0.020	0.661	0.724	1.230	1.236	0.513	0.757	0.763	1.250	1.256
LTE Band 7	Front	0.385	0.106	0.186	0.243	0.398	0.019	0.491	0.571	0.628	0.783	0.404	0.262	0.417	0.647	0.802
	Back	0.545	0.168	0.231	0.737	0.743	0.020	0.713	0.776	1.282	1.288	0.565	0.757	0.763	1.302	1.308
LTE Band 38	Front	0.227	0.106	0.186	0.243	0.398	0.019	0.333	0.413	0.470	0.625	0.246	0.262	0.417	0.489	0.644
	Back	0.335	0.168	0.231	0.737	0.743	0.020	0.503	0.566	1.072	1.078	0.355	0.757	0.763	1.092	1.098
LTE Band 41	Front	0.246	0.106	0.186	0.243	0.398	0.019	0.352	0.432	0.489	0.644	0.265	0.262	0.417	0.508	0.663
	Back	0.362	0.168	0.231	0.737	0.743	0.020	0.530	0.593	1.099	1.105	0.382	0.757	0.763	1.119	1.125

Hotspot Ant1:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1	2	3	4	5	6									
		Ant1	WiFi 2.4G Ant1(chian0)	WiFi 2.4G MIMO	WiFi 5G Ant7(chian1)	WiFi 5G MIMO	BT									
GSM850	Front	0.328	0.215	0.321	0.395	0.647	0.041	0.543	0.649	0.723	0.975	0.369	0.436	0.688	0.764	1.016
	Back	0.436	0.218	0.295	0.754	0.847	0.051	0.654	0.731	1.190	1.283	0.487	0.805	0.898	1.241	1.334
	Left	0.130	/	/	/	/	/	0.130	0.130	0.130	0.130	0.000	0.000	0.000	0.130	0.130
	Right	0.112	0.353	0.805	0.394	0.996	0.075	0.465	0.917	0.506	1.108	0.187	0.469	1.071	0.581	1.183
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.182	/	/	/	/	/	0.182	0.182	0.182	0.182	0.000	0.000	0.000	0.182	0.182
WCDMA Band V	Front	0.396	0.215	0.321	0.395	0.647	0.041	0.611	0.717	0.791	1.043	0.437	0.436	0.688	0.832	1.084
	Back	0.531	0.218	0.295	0.754	0.847	0.051	0.749	0.826	1.285	1.378	0.582	0.805	0.898	1.336	1.429
	Left	0.107	/	/	/	/	/	0.107	0.107	0.107	0.107	0.000	0.000	0.000	0.107	0.107
	Right	0.134	0.353	0.805	0.394	0.996	0.075	0.487	0.939	0.528	1.130	0.209	0.469	1.071	0.603	1.205
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.200	/	/	/	/	/	0.200	0.200	0.200	0.200	0.000	0.000	0.000	0.200	0.200
LTE Band 5	Front	0.261	0.215	0.321	0.395	0.647	0.041	0.476	0.582	0.656	0.908	0.302	0.436	0.688	0.697	0.949
	Back	0.381	0.218	0.295	0.754	0.847	0.051	0.599	0.676	1.135	1.228	0.432	0.805	0.898	1.186	1.279
	Left	0.091	/	/	/	/	/	0.091	0.091	0.091	0.091	0.000	0.000	0.000	0.091	0.091
	Right	0.079	0.353	0.805	0.394	0.996	0.075	0.432	0.884	0.473	1.075	0.154	0.469	1.071	0.548	1.150
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.145	/	/	/	/	/	0.145	0.145	0.145	0.145	0.000	0.000	0.000	0.145	0.145



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Hotspot Ant4:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1 Ant4	2 WiFi 2.4G Ant1(chian0)	3 WiFi 2.4G MIMO	4 WiFi 5G Ant7(chian1)	5 WiFi 5G MIMO	6 BT									
GSM850	Front	0.179	0.215	0.321	0.395	0.647	0.041	0.394	0.500	0.574	0.826	0.220	0.436	0.688	0.615	0.867
	Back	0.193	0.218	0.295	0.754	0.847	0.051	0.411	0.488	0.947	1.040	0.244	0.805	0.898	0.998	1.091
	Left	0.095	/	/	/	/	/	0.095	0.095	0.095	0.095	0.095	0.000	0.000	0.095	0.095
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	0.222	0.028	0.246	0.451	0.518	0.009	0.250	0.468	0.673	0.740	0.231	0.460	0.527	0.682	0.749
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA Band V	Front	0.276	0.215	0.321	0.395	0.647	0.041	0.491	0.597	0.671	0.923	0.317	0.436	0.688	0.712	0.964
	Back	0.279	0.218	0.295	0.754	0.847	0.051	0.497	0.574	1.033	1.126	0.330	0.805	0.898	1.084	1.177
	Left	0.162	/	/	/	/	/	0.162	0.162	0.162	0.162	0.000	0.000	0.000	0.162	0.162
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	0.358	0.028	0.246	0.451	0.518	0.009	0.386	0.604	0.809	0.876	0.367	0.460	0.527	0.818	0.885
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 5	Front	0.228	0.215	0.321	0.395	0.647	0.041	0.443	0.549	0.623	0.875	0.269	0.436	0.688	0.664	0.916
	Back	0.232	0.218	0.295	0.754	0.847	0.051	0.450	0.527	0.986	1.079	0.283	0.805	0.898	1.037	1.130
	Left	0.123	/	/	/	/	/	0.123	0.123	0.123	0.123	0.000	0.000	0.000	0.123	0.123
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	0.313	0.028	0.246	0.451	0.518	0.009	0.341	0.559	0.764	0.831	0.322	0.460	0.527	0.773	0.840
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hotspot Ant5:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1 Ant5	2 WiFi 2.4G Ant1(chian0)	3 WiFi 2.4G MIMO	4 WiFi 5G Ant7(chian1)	5 WiFi 5G MIMO	6 BT									
GSM1900	Front	0.118	0.215	0.321	0.395	0.647	0.041	0.333	0.439	0.513	0.765	0.159	0.436	0.688	0.554	0.806
	Back	0.093	0.218	0.295	0.754	0.847	0.051	0.311	0.388	0.847	0.940	0.144	0.805	0.898	0.898	0.991
	Left	0.353	/	/	/	/	/	0.353	0.353	0.353	0.353	0.353	0.000	0.000	0.353	0.353
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA Band II	Front	0.102	0.215	0.321	0.395	0.647	0.041	0.317	0.423	0.497	0.749	0.143	0.436	0.688	0.538	0.790
	Back	0.096	0.218	0.295	0.754	0.847	0.051	0.314	0.391	0.850	0.943	0.147	0.805	0.898	0.901	0.994
	Left	0.258	/	/	/	/	/	0.258	0.258	0.258	0.258	0.258	0.000	0.000	0.258	0.258
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA Band IV	Front	0.109	0.215	0.321	0.395	0.647	0.041	0.324	0.430	0.504	0.756	0.150	0.436	0.688	0.545	0.797
	Back	0.109	0.218	0.295	0.754	0.847	0.051	0.327	0.404	0.863	0.956	0.160	0.805	0.898	0.914	1.007
	Left	0.260	/	/	/	/	/	0.260	0.260	0.260	0.260	0.260	0.000	0.000	0.260	0.260
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 2	Front	0.103	0.215	0.321	0.395	0.647	0.041	0.318	0.424	0.498	0.750	0.144	0.436	0.688	0.539	0.791
	Back	0.084	0.218	0.295	0.754	0.847	0.051	0.302	0.379	0.838	0.931	0.135	0.805	0.898	0.889	0.982
	Left	0.265	/	/	/	/	/	0.265	0.265	0.265	0.265	0.265	0.000	0.000	0.265	0.265
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 4	Front	0.076	0.215	0.321	0.395	0.647	0.041	0.291	0.397	0.471	0.723	0.117	0.436	0.688	0.512	0.764
	Back	0.093	0.218	0.295	0.754	0.847	0.051	0.311	0.388	0.847	0.940	0.144	0.805	0.898	0.898	0.991
	Left	0.186	/	/	/	/	/	0.186	0.186	0.186	0.186	0.186	0.000	0.000	0.186	0.186
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 7	Front	0.088	0.215	0.321	0.395	0.647	0.041	0.303	0.409	0.483	0.735	0.129	0.436	0.688	0.524	0.776
	Back	0.082	0.218	0.295	0.754	0.847	0.051	0.300	0.377	0.836	0.929	0.133	0.805	0.898	0.887	0.980
	Left	0.119	/	/	/	/	/	0.119	0.119	0.119	0.119	0.119	0.000	0.000	0.119	0.119
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 38	Front	0.123	0.215	0.321	0.395	0.647	0.041	0.338	0.444	0.518	0.770	0.164	0.436	0.688	0.559	0.811
	Back	0.129	0.218	0.295	0.754	0.847	0.051	0.347	0.424	0.883	0.976	0.180	0.805	0.898	0.934	1.027
	Left	0.185	/	/	/	/	/	0.185	0.185	0.185	0.185	0.185	0.000	0.000	0.185	0.185
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 41	Front	0.095	0.215	0.321	0.395	0.647	0.041	0.310	0.416	0.490	0.742	0.136	0.436	0.688	0.531	0.783
	Back	0.087	0.218	0.295	0.754	0.847	0.051	0.305	0.382	0.841	0.934	0.138	0.805	0.898	0.892	0.985
	Left	0.157	/	/	/	/	/	0.157	0.157	0.157	0.157	0.157	0.000	0.000	0.157	0.157
	Right	/	0.353	0.805	0.394	0.996	0.075	0.353	0.805	0.394	0.996	0.075	0.469	1.071	0.469	1.071
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Hotspot Ant10:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1 Ant10	2 WiFi 2.4G Ant1(chian0)	3 WiFi 2.4G MIMO	4 WiFi 5G Ant7(chian1)	5 WiFi 5G MIMO	6 BT									
GSM1900	Front	0.361	0.215	0.321	0.395	0.647	0.041	0.576	0.682	0.756	1.008	0.402	0.436	0.688	0.797	1.049
	Back	0.408	0.218	0.295	0.754	0.847	0.051	0.626	0.703	1.162	1.255	0.459	0.805	0.898	1.213	1.306
	Left	0.139	/	/	/	/	/	0.139	0.139	0.139	0.139	0.139	0.000	0.000	0.139	0.139
	Right	0.067	0.353	0.805	0.394	0.996	0.075	0.420	0.872	0.461	1.063	0.142	0.469	1.071	0.536	1.138
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.616	/	/	/	/	/	0.616	0.616	0.616	0.616	0.616	0.000	0.000	0.616	0.616
WCDMA Band II	Front	0.562	0.215	0.321	0.395	0.647	0.041	0.777	0.883	0.957	1.209	0.603	0.436	0.688	0.998	1.250
	Back	0.651	0.218	0.295	0.754	0.847	0.051	0.869	0.946	1.405	1.498	0.702	0.805	0.898	1.456	1.549
	Left	0.235	/	/	/	/	/	0.235	0.235	0.235	0.235	0.000	0.000	0.000	0.235	0.235
	Right	0.111	0.353	0.805	0.394	0.996	0.075	0.464	0.916	0.505	1.107	0.186	0.469	1.071	0.580	1.182
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.971	/	/	/	/	/	0.971	0.971	0.971	0.971	0.971	0.000	0.000	0.971	0.971
WCDMA Band IV	Front	0.637	0.215	0.321	0.395	0.647	0.041	0.852	0.958	1.032	1.284	0.678	0.436	0.688	1.073	1.325
	Back	0.686	0.218	0.295	0.754	0.847	0.051	0.904	0.981	1.440	1.533	0.737	0.805	0.898	1.491	1.584
	Left	0.265	/	/	/	/	/	0.265	0.265	0.265	0.265	0.000	0.000	0.000	0.265	0.265
	Right	0.141	0.353	0.805	0.394	0.996	0.075	0.494	0.946	0.535	1.137	0.216	0.469	1.071	0.610	1.212
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.979	/	/	/	/	/	0.979	0.979	0.979	0.979	0.979	0.000	0.000	0.979	0.979
LTE Band 2	Front	0.426	0.215	0.321	0.395	0.647	0.041	0.641	0.747	0.821	1.073	0.467	0.436	0.688	0.862	1.114
	Back	0.485	0.218	0.295	0.754	0.847	0.051	0.703	0.780	1.239	1.332	0.536	0.805	0.898	1.290	1.383
	Left	0.180	/	/	/	/	/	0.180	0.180	0.180	0.180	0.180	0.000	0.000	0.180	0.180
	Right	0.088	0.353	0.805	0.394	0.996	0.075	0.441	0.893	0.482	1.084	0.163	0.469	1.071	0.557	1.159
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.790	/	/	/	/	/	0.790	0.790	0.790	0.790	0.790	0.000	0.000	0.790	0.790
LTE Band 4	Front	0.634	0.215	0.321	0.395	0.647	0.041	0.849	0.955	1.029	1.281	0.675	0.436	0.688	1.070	1.322
	Back	0.681	0.218	0.295	0.754	0.847	0.051	0.899	0.976	1.435	1.528	0.732	0.805	0.898	1.486	1.579
	Left	0.264	/	/	/	/	/	0.264	0.264	0.264	0.264	0.000	0.000	0.000	0.264	0.264
	Right	0.139	0.353	0.805	0.394	0.996	0.075	0.492	0.944	0.533	1.135	0.214	0.469	1.071	0.608	1.210
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.929	/	/	/	/	/	0.929	0.929	0.929	0.929	0.929	0.000	0.000	0.929	0.929
LTE Band 7	Front	0.324	0.215	0.321	0.395	0.647	0.041	0.539	0.645	0.719	0.971	0.365	0.436	0.688	0.760	1.012
	Back	0.537	0.218	0.295	0.754	0.847	0.051	0.755	0.832	1.291	1.384	0.588	0.805	0.898	1.342	1.435
	Left	0.149	/	/	/	/	/	0.149	0.149	0.149	0.149	0.149	0.000	0.000	0.149	0.149
	Right	0.065	0.353	0.805	0.394	0.996	0.075	0.418	0.870	0.459	1.061	0.140	0.469	1.071	0.534	1.136
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.379	/	/	/	/	/	0.379	0.379	0.379	0.379	0.379	0.000	0.000	0.379	0.379
LTE Band 38	Front	0.300	0.215	0.321	0.395	0.647	0.041	0.515	0.621	0.695	0.947	0.341	0.436	0.688	0.736	0.988
	Back	0.523	0.218	0.295	0.754	0.847	0.051	0.741	0.818	1.277	1.370	0.574	0.805	0.898	1.328	1.421
	Left	0.132	/	/	/	/	/	0.132	0.132	0.132	0.132	0.132	0.000	0.000	0.132	0.132
	Right	0.063	0.353	0.805	0.394	0.996	0.075	0.416	0.868	0.457	1.059	0.138	0.469	1.071	0.532	1.134
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.374	/	/	/	/	/	0.374	0.374	0.374	0.374	0.374	0.000	0.000	0.374	0.374
LTE Band 41	Front	0.275	0.215	0.321	0.395	0.647	0.041	0.490	0.596	0.670	0.922	0.316	0.436	0.688	0.711	0.963
	Back	0.483	0.218	0.295	0.754	0.847	0.051	0.701	0.778	1.237	1.330	0.534	0.805	0.898	1.288	1.381
	Left	0.126	/	/	/	/	/	0.126	0.126	0.126	0.126	0.126	0.000	0.000	0.126	0.126
	Right	0.075	0.353	0.805	0.394	0.996	0.075	0.428	0.880	0.469	1.071	0.150	0.469	1.071	0.544	1.146
	Top	/	0.028	0.246	0.451	0.518	0.009	0.028	0.246	0.451	0.518	0.009	0.460	0.527	0.460	0.527
	Bottom	0.343	/	/	/	/	/	0.343	0.343	0.343	0.343	0.343	0.000	0.000	0.343	0.343



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Product specific 10g SAR Ant1:

Test position	Main Antenna SARmax (W/kg)			WiFi/BT Antenna SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)		
	GSM850	WCDMA Band V	LTE Band 5	WiFi 2.4G Ant0	WiFi 2.4G MIMO	WiFi 5G	WiFi 5G MIMO	BT											
	1			2	3	4	5	6											
Product specific 10g SAR	Front	/	/	/	/	/	/	0.966	1.253	/	/	/	0.966	1.253	0.000	0.966	1.253	0.966	1.253
	Back	/	/	/	/	/	/	1.439	1.986	/	/	/	1.439	1.986	0.000	1.439	1.986	1.439	1.986
	Left	/	/	/	/	/	/	0.767	2.383	/	/	/	0.767	2.383	0.000	0.767	2.383	0.767	2.383
	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top	/	/	/	/	/	/	0.758	0.871	/	/	/	0.758	0.871	0.000	0.758	0.871	0.758	0.871
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Product specific 10g SAR Ant4:

Test position	Main Antenna SARmax (W/kg)			WiFi/BT Antenna SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)		
	GSM850	WCDMA Band V	LTE Band 5	WiFi 2.4G Ant0	WiFi 2.4G MIMO	WiFi 5G	WiFi 5G MIMO	BT											
	1			2	3	4	5	6											
Product specific 10g SAR	Front	/	/	/	/	/	/	0.966	1.253	/	/	/	0.966	1.253	0.000	0.966	1.253	0.966	1.253
	Back	/	/	/	/	/	/	1.439	1.986	/	/	/	1.439	1.986	0.000	1.439	1.986	1.439	1.986
	Left	/	/	/	/	/	/	0.767	2.383	/	/	/	0.767	2.383	0.000	0.767	2.383	0.767	2.383
	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top	/	/	/	/	/	/	0.758	0.871	/	/	/	0.758	0.871	0.000	0.758	0.871	0.758	0.871
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Product specific 10g SAR Ant5:

Test position	Main Antenna SARmax (W/kg)								WiFi/BT Antenna SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)			
	GSM1900	WCDMA Band II	WCDMA Band IV	LTE Band 2	LTE Band 4	LTE Band 7	LTE Band 38	LTE Band 41	WiFi 2.4G Ant0	WiFi 2.4G MIMO	WiFi 5G	WiFi 5G MIMO	BT													
	1								2	3	4	5	6													
Product specific 10g SAR	Front	/	/	/	/	/	/	/	/	/	/	/	/	0.966	1.253	/	/	/	0.966	1.253	/	/	0.966	1.253	0.966	1.253
	Back	/	/	/	/	/	/	/	/	/	/	/	/	1.439	1.986	/	/	/	1.439	1.986	/	/	1.439	1.986	1.439	1.986
	Left	/	/	/	/	/	/	/	/	/	/	/	/	0.767	2.383	/	/	/	0.767	2.383	/	/	0.767	2.383	0.767	2.383
	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Top	/	/	/	/	/	/	/	/	/	/	/	/	0.758	0.871	/	/	/	0.758	0.871	0.000	0.758	0.871	0.758	0.871	
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

Product specific 10g SAR Ant10:

Test position	Main Antenna SARmax (W/kg)								WiFi/BT Antenna SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)			
	GSM1900	WCDMA Band II	WCDMA Band IV	LTE Band 2	LTE Band 4	LTE Band 7	LTE Band 38	LTE Band 41	WiFi 2.4G Ant0	WiFi 2.4G MIMO	WiFi 5G	WiFi 5G MIMO	BT													
	1								2	3	4	5	6													
Product specific 10g SAR	Front	/	/	/	/	/	/	/	/	/	/	/	/	0.966	1.253	/	/	/	0.966	1.253	/	/	0.966	1.253	0.966	1.253
	Back	/	/	/	/	/	/	/	/	/	/	/	/	1.439	1.986	/	/	/	1.439	1.986	/	/	1.439	1.986	1.439	1.986
	Left	/	/	/	/	/	/	/	/	/	/	/	/	0.767	2.383	/	/	/	0.767	2.383	/	/	0.767	2.383	0.767	2.383
	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Top	/	/	/	/	/	/	/	/	/	/	/	/	0.758	0.871	/	/	/	0.758	0.871	0.000	0.758	0.871	0.758	0.871	
	Bottom	/	3.128	2.128	3.222	/	/	/	/	/	/	/	/	/	/	/	/	/	3.222	3.222	3.222	3.222	3.222	3.222	3.222	



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9 Equipment list

Test Platform		SPEAG DASY5 Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 3	1912	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 7	1027	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 8	1063	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1267	2019-12-17	2020-12-16
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1428	2020-03-03	2021-03-02
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3923	2019-10-22	2020-10-21
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3982	2019-09-11	2020-09-10
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d105	2019-12-17	2022-12-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1149	2019-05-21	2022-05-20
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1900V2	5d028	2019-12-17	2022-12-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	733	2019-12-17	2022-12-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1125	2019-05-20	2022-05-19
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1165	2019-12-20	2022-12-19
<input checked="" type="checkbox"/>	Agilent Network Analyzer	Agilent	E5071C	MY46523590	2019-04-12	2020-04-11
<input checked="" type="checkbox"/>	Dielectric Probe Kit	Agilent	85070E	US01440210	NCR	NCR
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	103990	2019-04-09	2020-04-08
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8821C	6201502984	2019-06-25	2020-06-24
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5171B	MY53050736	2019-04-12	2020-04-11
<input checked="" type="checkbox"/>	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
<input checked="" type="checkbox"/>	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	073501433	NCR	NCR
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4416A	GB41292095	2019-04-12	2020-04-11
<input checked="" type="checkbox"/>	Power Sensor	Agilent	8481H	MY41091234	2019-04-12	2020-04-11
<input checked="" type="checkbox"/>	Power Sensor	R&S	NRP-Z92	100025	2019-04-12	2020-04-11
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
<input checked="" type="checkbox"/>	50 Ω coaxial load	Mini-Circuits	KARN-50+	00850	NCR	NCR



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<input checked="" type="checkbox"/>	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	MingGao	T809	NA	2019-04-15	2020-04-14
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2019-04-15	2020-04-14

Note: All the equipments are within the valid period when the tests are performed.

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 f (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 835 MHz Head
System Performance Check 1750 MHz Head
System Performance Check 1900 MHz Head
System Performance Check 2450 MHz Head
System Performance Check 2600 MHz Head
System Performance Check 5250 MHz Head
System Performance Check 5600 MHz Head
System Performance Check 5750 MHz Head

Test Laboratory: The name of your organization

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 835$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 42.668$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.96 W/kg

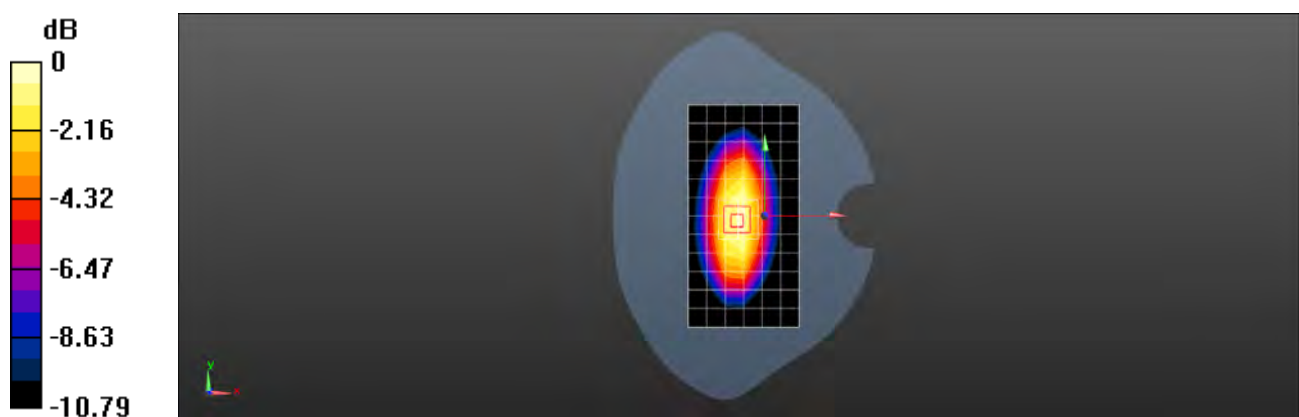
Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 52.66 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.84 W/kg

SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.64 W/kg

Maximum value of SAR (measured) = 3.21 W/kg



0 dB = 3.21 W/kg = 5.07 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 835$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.632$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.80 W/kg

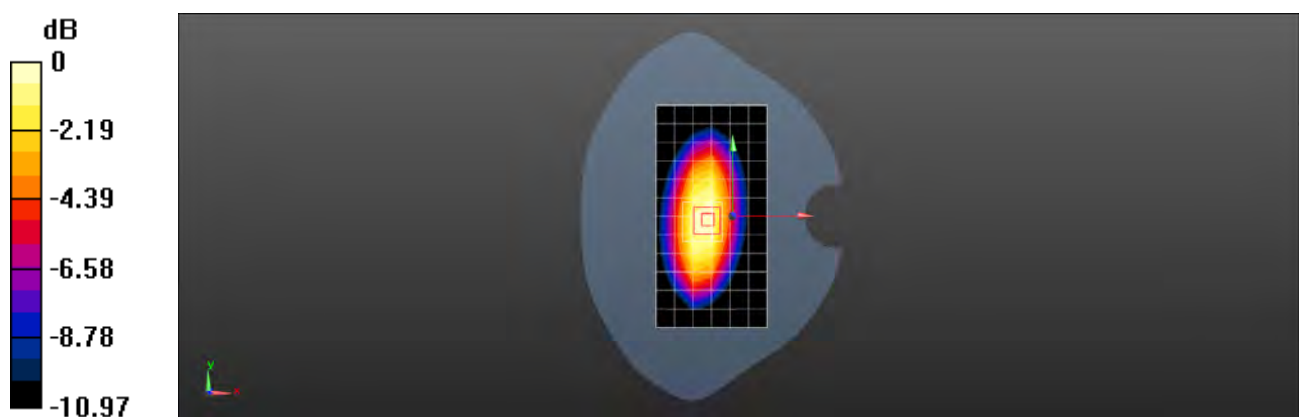
Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 51.30 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.84 W/kg

SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.64 W/kg

Maximum value of SAR (measured) = 3.07 W/kg



0 dB = 3.07 W/kg = 4.87 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 1750 MHz Head

DUT: D1750V2; Type: D1750V2; Serial: 1149

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.33$ S/m; $\epsilon_r = 39.574$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 13.8 W/kg

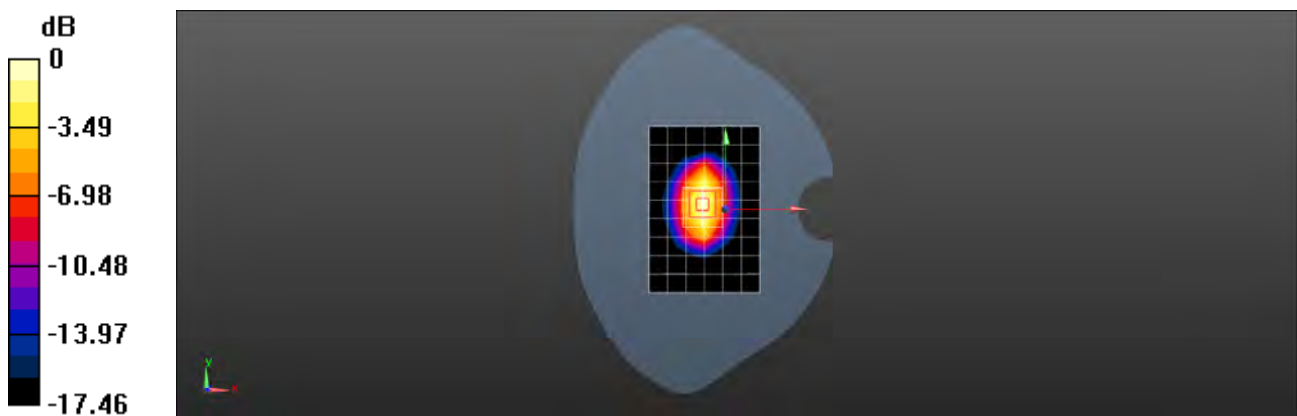
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.86 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 9.24 W/kg; SAR(10 g) = 4.92 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 1900 MHz Head

DUT: D1900V2; Type: D1900V2; Serial: 5d028

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.451$ S/m; $\epsilon_r = 38.564$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 10.2 W/kg

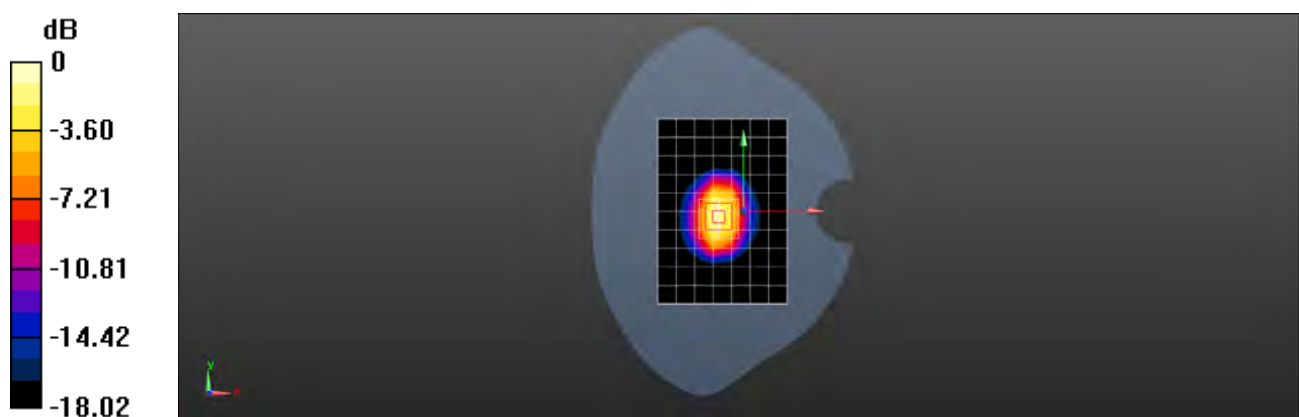
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.60 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.52 W/kg

Maximum value of SAR (measured) = 12.0 W/kg



0 dB = 12.0 W/kg = 10.79 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 1900 MHz Head

DUT: D1900V2; Type: D1900V2; Serial: 5d028

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 41.472$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.1 W/kg

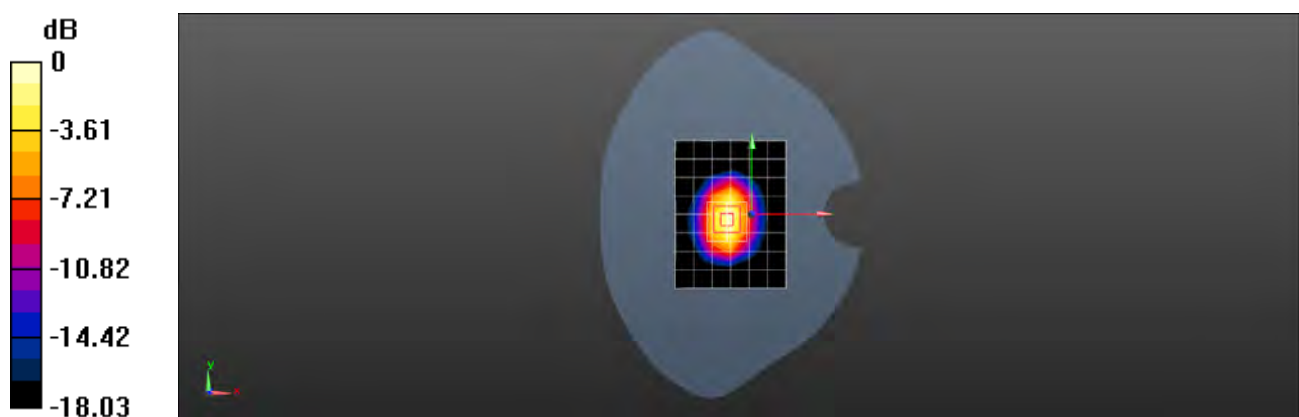
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.67 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.45 W/kg

Maximum value of SAR (measured) = 11.8 W/kg



0 dB = 11.8 W/kg = 10.72 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 2450MHz Head

DUT: D2450V2; Type: D2450V2; Serial: 733

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.811$ S/m; $\epsilon_r = 41.079$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 17.0 W/kg

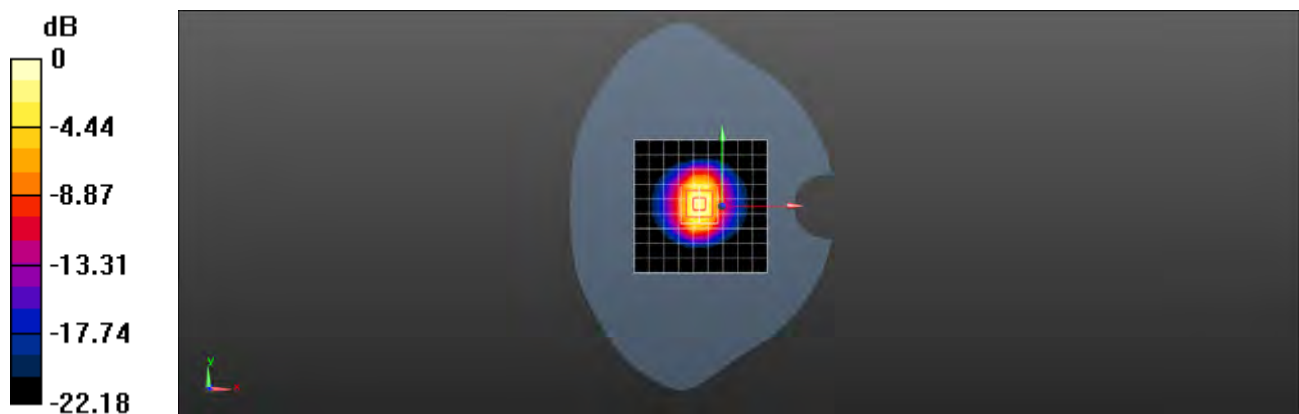
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.70 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.1 W/kg

Maximum value of SAR (measured) = 22.2 W/kg



0 dB = 22.2 W/kg = 13.46 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.958$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 22.1 W/kg

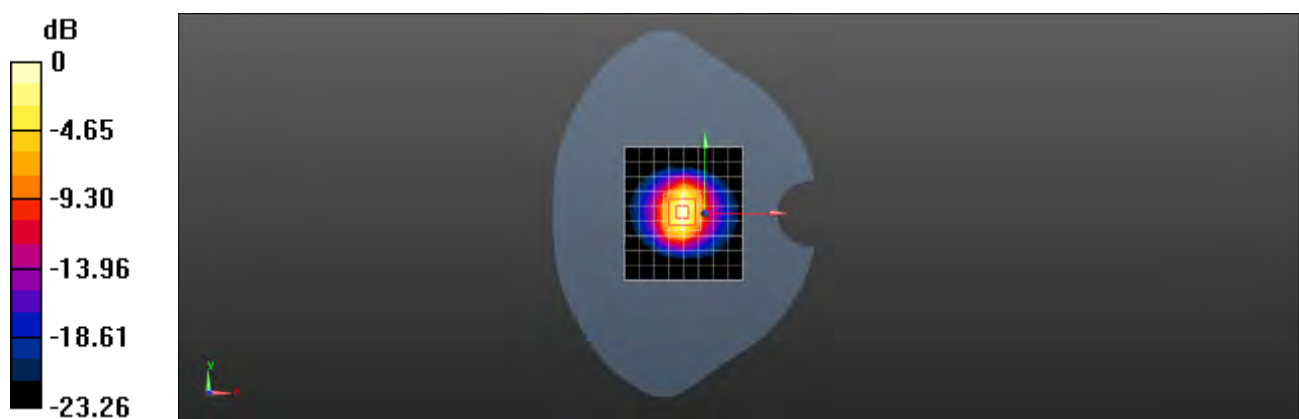
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.04 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.18 W/kg

Maximum value of SAR (measured) = 23.7 W/kg



0 dB = 23.7 W/kg = 13.75 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.966$ S/m; $\epsilon_r = 39.83$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 21.2 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.89 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.3 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.06 W/kg

Maximum value of SAR (measured) = 23.4 W/kg



0 dB = 23.4 W/kg = 13.69 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.983$ S/m; $\epsilon_r = 40.495$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (8x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 14.3 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.90 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 29.2 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.16 W/kg

Maximum value of SAR (measured) = 23.5 W/kg



0 dB = 23.5 W/kg = 13.71 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 5.25GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: $f = 5250$ MHz; $\sigma = 4.652$ S/m; $\epsilon_r = 35.669$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (8x8x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.0 W/kg

Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

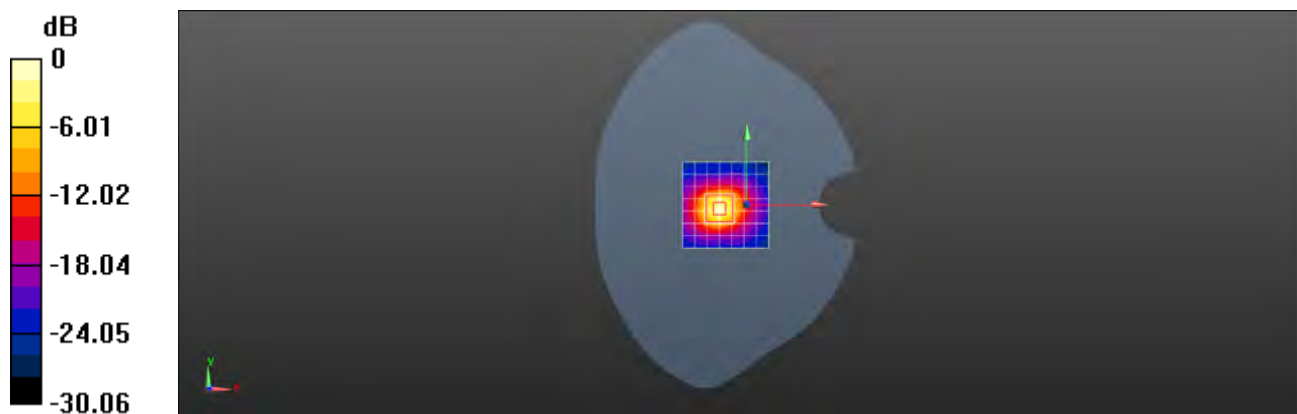
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 58.28 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 7.85 W/kg; SAR(10 g) = 2.26 W/kg

Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 5.6GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: $f = 5600$ MHz; $\sigma = 5.037$ S/m; $\epsilon_r = 34.801$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (8x8x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 17.9 W/kg

Body/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

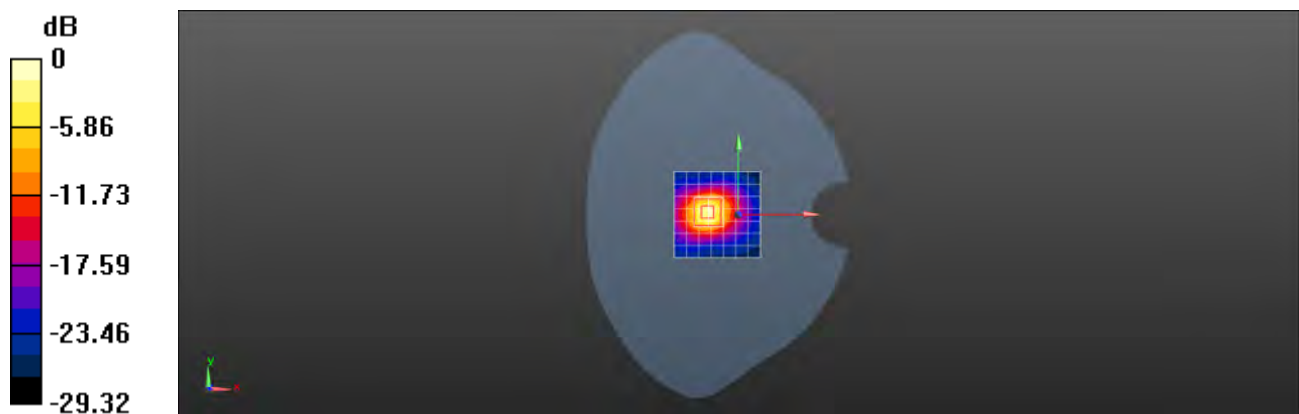
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.86 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 8.36 W/kg; SAR(10 g) = 2.39 W/kg

Maximum value of SAR (measured) = 21.7 W/kg



0 dB = 21.7 W/kg = 13.36 dBW/kg

Test Laboratory: The name of your organization

System Performance Check 5.75GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: $f = 5750$ MHz; $\sigma = 5.225$ S/m; $\epsilon_r = 34.641$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.83, 4.83, 4.83); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (8x8x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.2 W/kg

Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

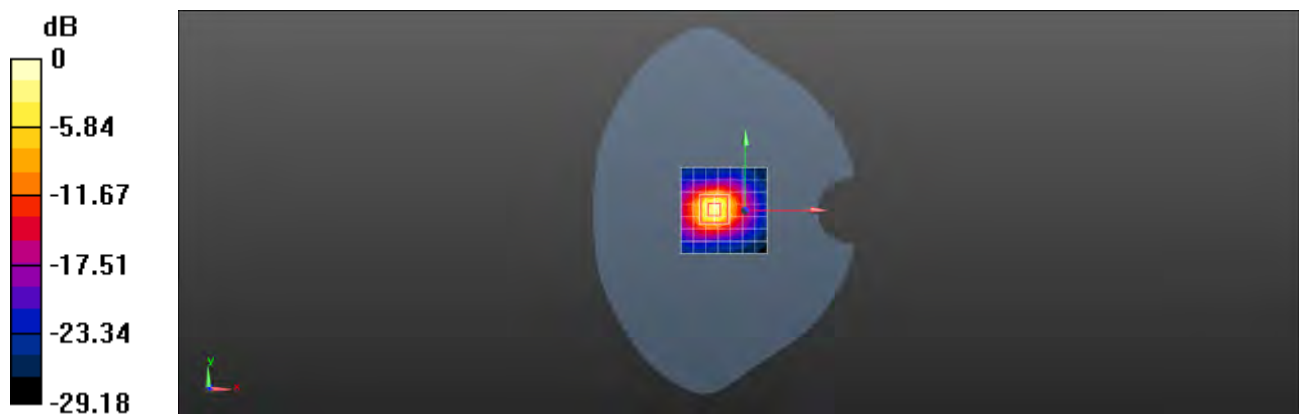
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 45.88 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 34.5 W/kg

SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg = 13.14 dBW/kg



System Validation

Per FCC KDB 865664 D02, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media. a tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Table of SAR System validation summary:

Frequency (MHz)	Date	Probe SN	Probe Type	Probe CAL POINT		PERM (ϵ_r)	COND (σ)	CW Validation			MOD.VALIDATION		
								Sensitivity	Probe Linearity	Probe Isotropy	Modulation	DUTY. FACTORE	PAR
750	2019/11/05	3923	EX3DV4	750	Head	42.815	0.891	PASS	PASS	PASS	N/A	N/A	N/A
835	2019/11/05	3923	EX3DV4	835	Head	42.206	0.905	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2019/11/05	3923	EX3DV4	1750	Head	40.521	1.372	PASS	PASS	PASS	N/A	N/A	N/A
1900	2019/11/05	3923	EX3DV4	1900	Head	41.160	1.409	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2019/11/05	3923	EX3DV4	2450	Head	39.810	1.813	PASS	PASS	PASS	OFDM	PASS	N/A
2600	2019/11/05	3923	EX3DV4	2600	Head	38.905	1.957	PASS	PASS	PASS	TDD	PASS	N/A
5250	2019/11/05	3923	EX3DV4	5250	Head	36.173	4.738	PASS	PASS	PASS	OFDM	PASS	N/A
5600	2019/11/05	3923	EX3DV4	5600	Head	35.232	5.116	PASS	PASS	PASS	OFDM	PASS	N/A
5750	2019/11/05	3923	EX3DV4	5750	Head	34.984	5.298	PASS	PASS	PASS	OFDM	PASS	N/A
750	2019/09/23	3982	EX3DV4	750	Head	41.925	0.883	PASS	PASS	PASS	N/A	N/A	N/A
835	2019/09/23	3982	EX3DV4	835	Head	41.783	0.908	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2019/09/23	3982	EX3DV4	1750	Head	40.562	1.366	PASS	PASS	PASS	N/A	N/A	N/A
1900	2019/09/23	3982	EX3DV4	1900	Head	40.873	1.396	PASS	PASS	PASS	GMSK	PASS	N/A

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.



Appendix B

Detailed Test Results

1. GSM
GSM850 for Head & Body
GSM1900 for Head & Body
2. WCDMA
WCDMA Band II for Head & Body
WCDMA Band IV for Head & Body
WCDMA Band V for Head & Body
3. LTE
LTE Band 2 for Head & Body
LTE Band 4 for Head & Body
LTE Band 5 for Head & Body
LTE Band 7 for Head & Body
LTE Band 38 for Head & Body
LTE Band 41 for Head & Body
4. WIFI
WIFI 2.4GHz for Head & Body
WIFI 5GHz for Head & Body
5. BT
BT for Head & Body

Test Laboratory: The name of your organization

M2002J9G GSM850 GSM 190CH Left cheek Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.143 W/kg

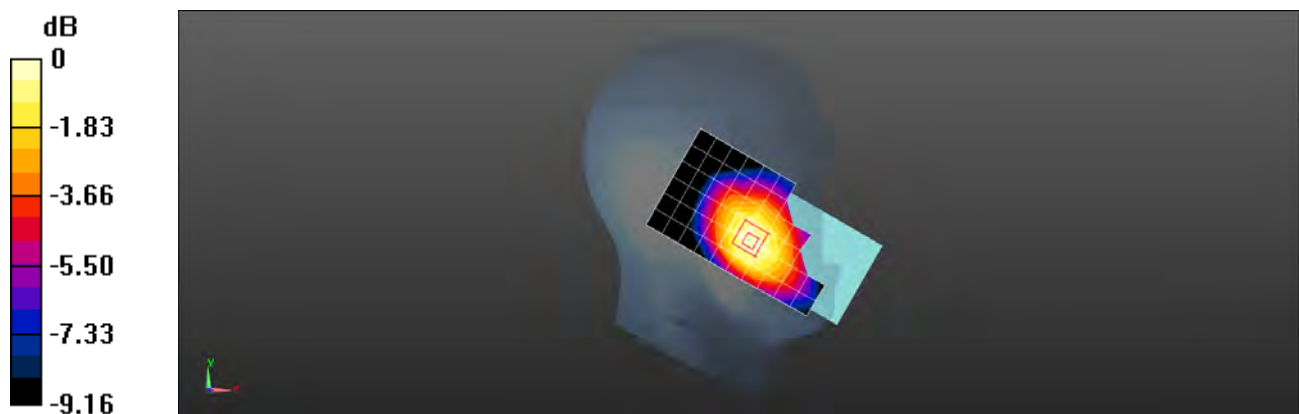
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.584 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.166 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.148 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

Test Laboratory: The name of your organization

M2002J9G GSM850 GSM 190CH Back side 15mm Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.248 W/kg

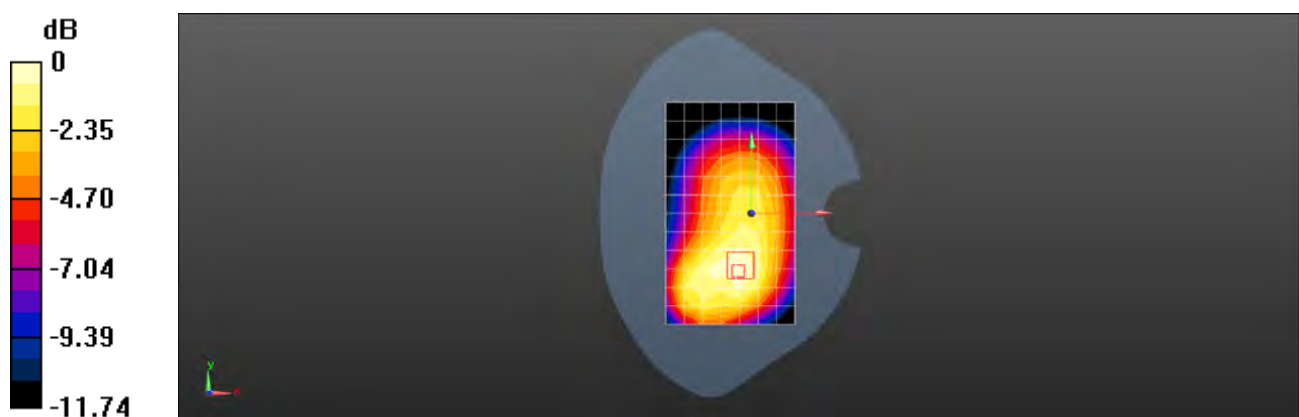
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.38 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.291 W/kg

SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.150 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



0 dB = 0.252 W/kg = -5.99 dBW/kg

Test Laboratory: The name of your organization

M2002J9G GSM850 GPRS 4TS 190CH Back side 10mm Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 850 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.399 W/kg

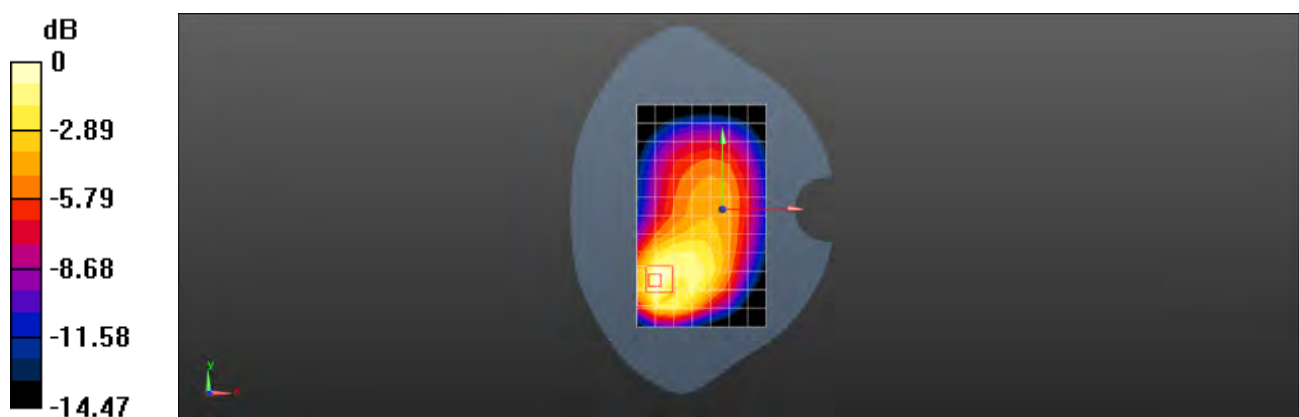
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.36 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.447 W/kg



0 dB = 0.447 W/kg = -3.50 dBW/kg

Test Laboratory: The name of your organization

M2002J9G GSM850 GSM 190CH Right tilted Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.705 W/kg

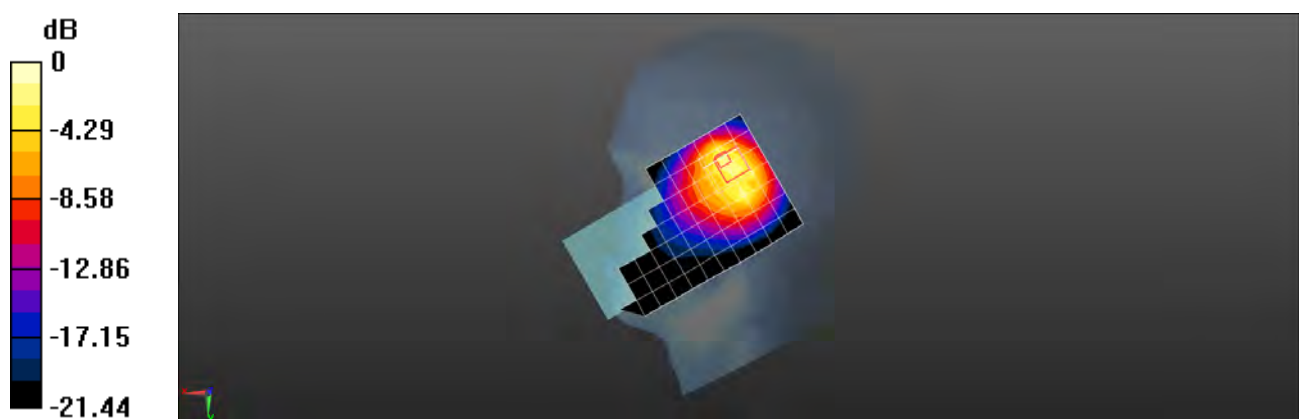
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.98 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.236 W/kg

Maximum value of SAR (measured) = 0.963 W/kg



0 dB = 0.963 W/kg = -0.16 dBW/kg

Test Laboratory: The name of your organization

M2002J9G GSM850 GSM 190CH Back side 15mm Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.293 W/kg

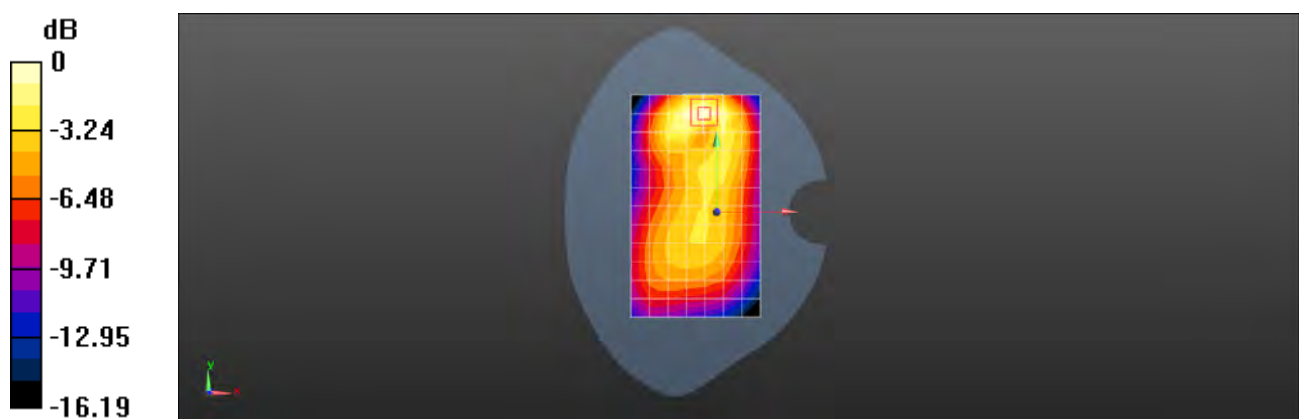
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.70 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.294 W/kg



0 dB = 0.294 W/kg = -5.32 dBW/kg

Test Laboratory: The name of your organization

M2002J9G GSM850 GPRS 4TS 190CH Top side 10mm Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.202 W/kg

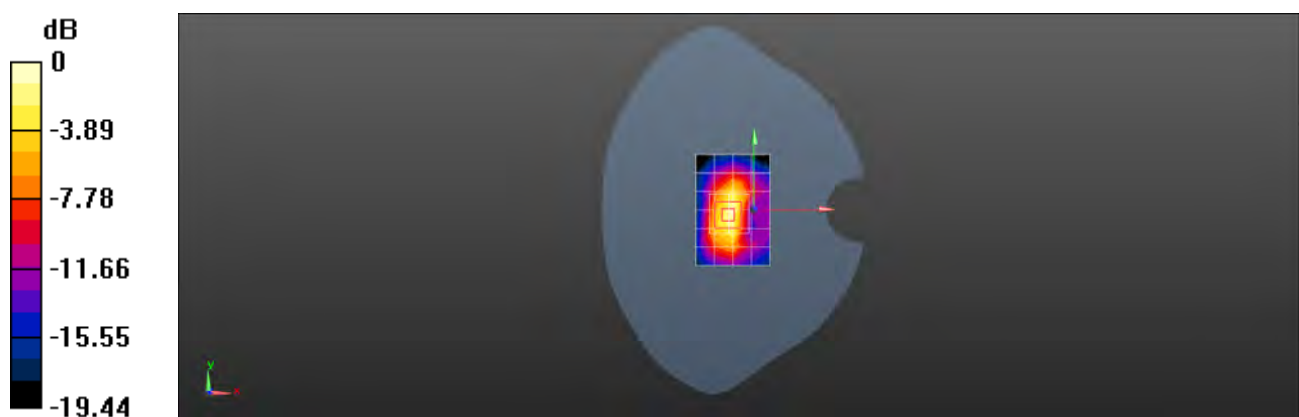
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.64 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.154 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.234 W/kg = -6.31 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G GSM1900 GSM 661CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.796 W/kg

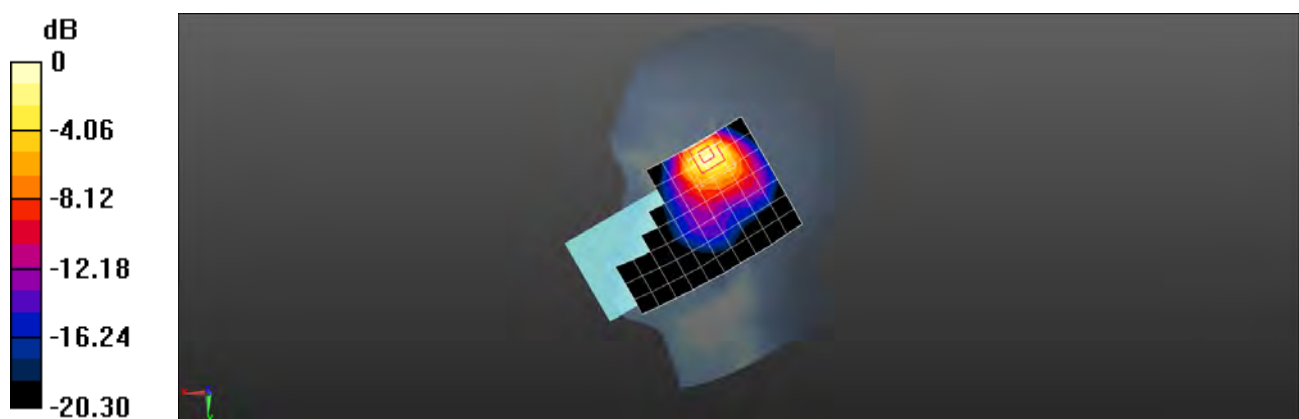
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.182 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.254 W/kg

Maximum value of SAR (measured) = 0.794 W/kg



0 dB = 0.794 W/kg = -1.00 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G GSM1900 GSM 661CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.168 W/kg

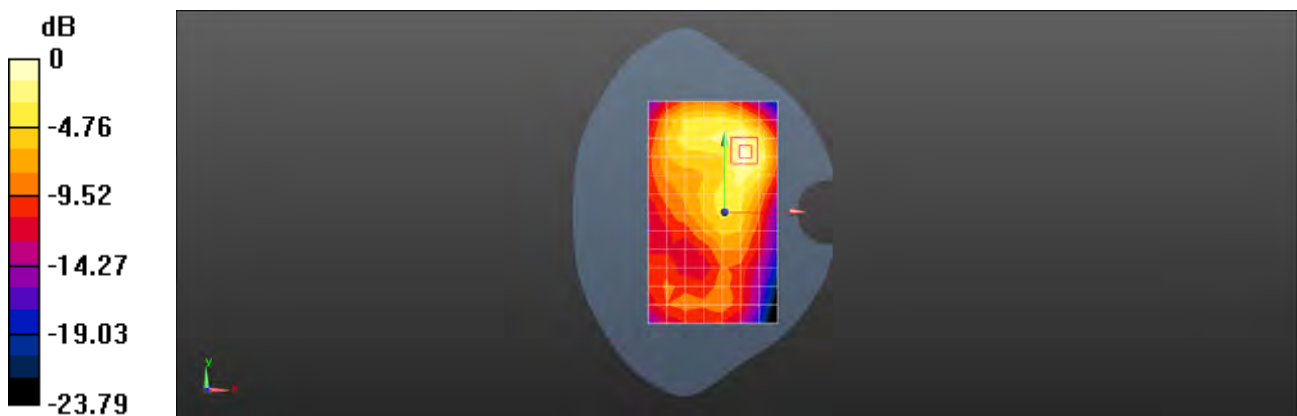
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.122 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.191 W/kg



0 dB = 0.191 W/kg = -7.19 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G GSM1900 GPRS 4TS 661CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.193 W/kg

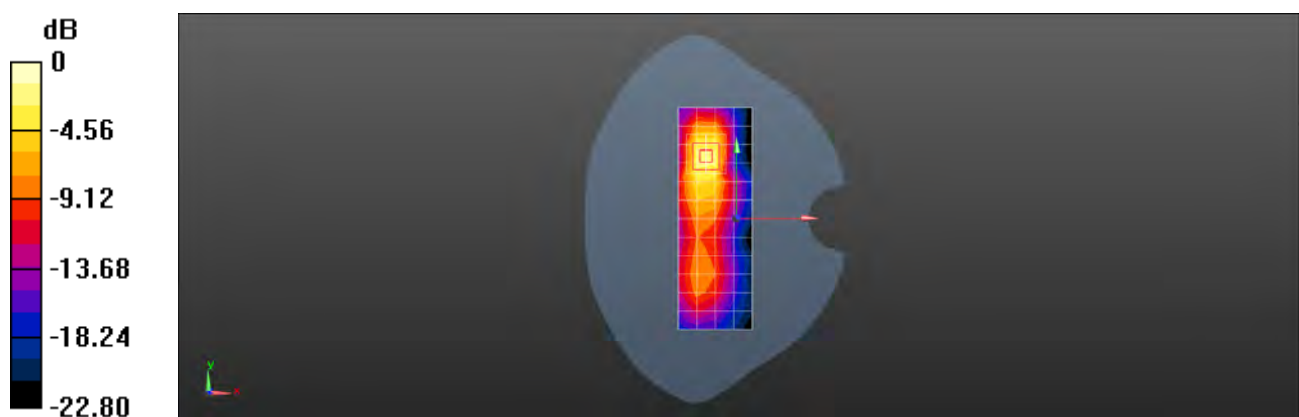
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.827 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.344 W/kg



0 dB = 0.344 W/kg = -4.63 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G GSM1900 GSM 661CH Right cheek Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0843 W/kg

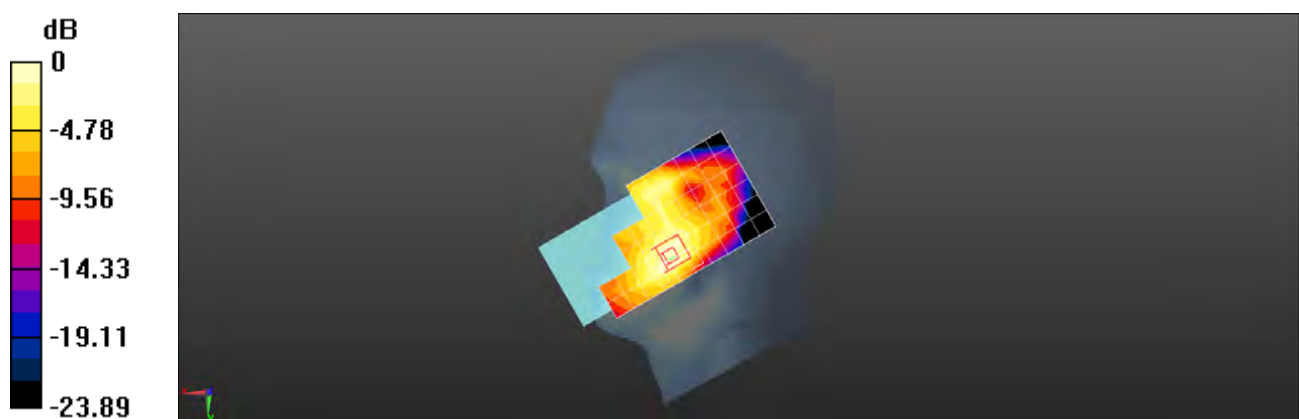
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.164 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.115 W/kg

SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.045 W/kg

Maximum value of SAR (measured) = 0.0959 W/kg



0 dB = 0.0959 W/kg = -10.18 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G GSM1900 GSM 661CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 1900 GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.311 W/kg

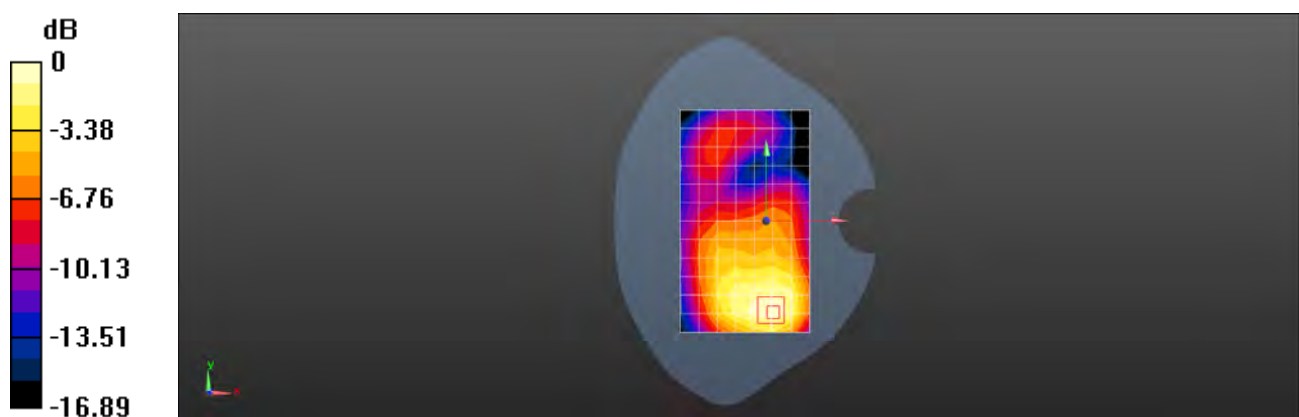
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.454 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.311 W/kg = -5.07 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G GSM1900 GPRS 4TS 661CH Bottom side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, GSM 1900 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.605 W/kg

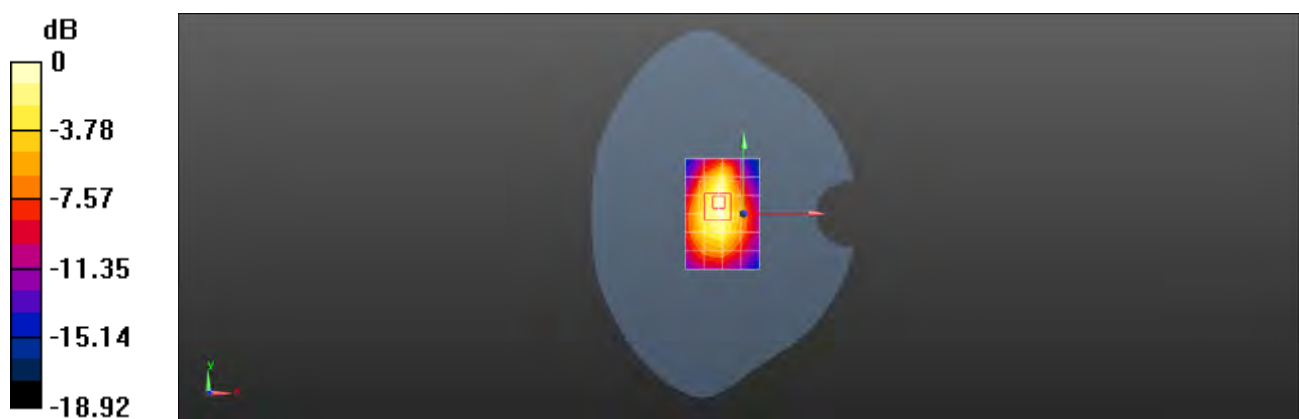
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.99 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.815 W/kg

SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.256 W/kg

Maximum value of SAR (measured) = 0.651 W/kg



0 dB = 0.651 W/kg = -1.86 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band II 9400CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1.579

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.987 W/kg

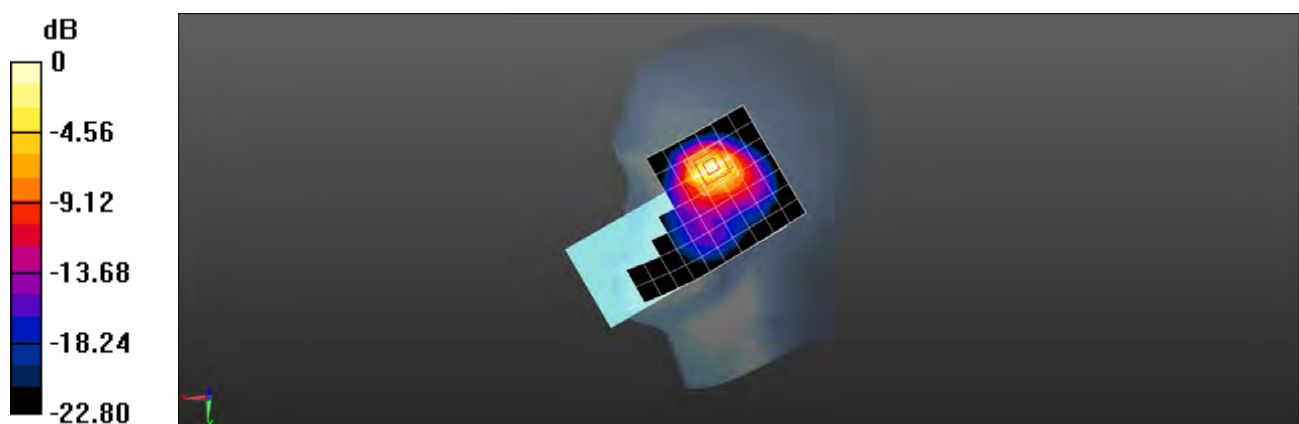
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.133 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.257 W/kg

Maximum value of SAR (measured) = 0.986 W/kg



0 dB = 0.986 W/kg = -0.06 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band II 9400CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1.579

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.273 W/kg

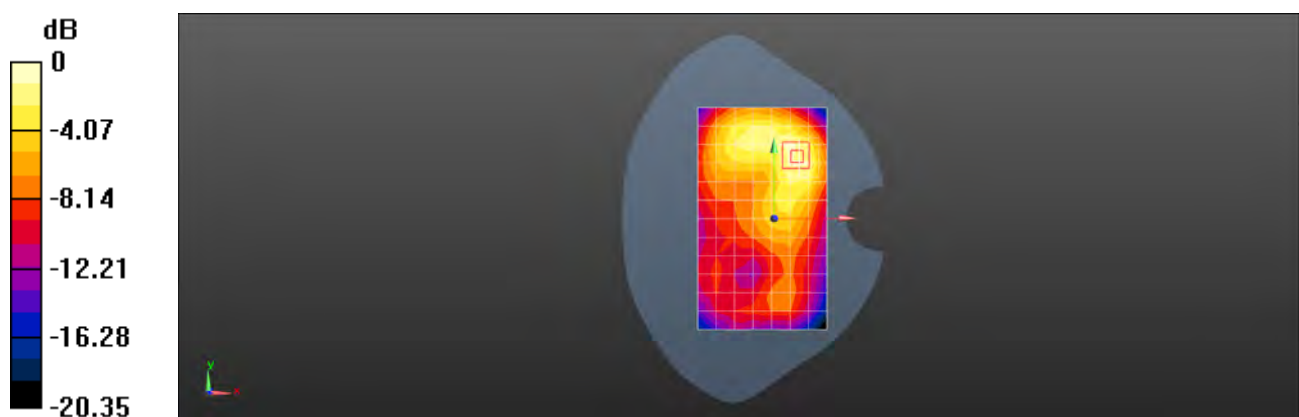
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.377 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.128 W/kg

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



0 dB = 0.319 W/kg = -4.96 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band II 9400CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1.579

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.239 W/kg

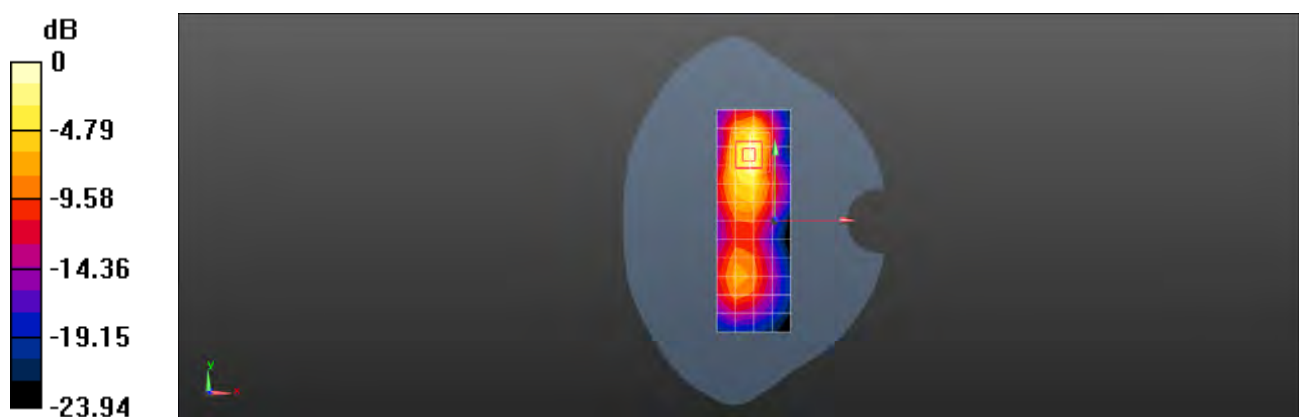
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.316 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.290 W/kg



0 dB = 0.290 W/kg = -5.38 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band II 9400CH Right titled Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1.579

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.199 W/kg

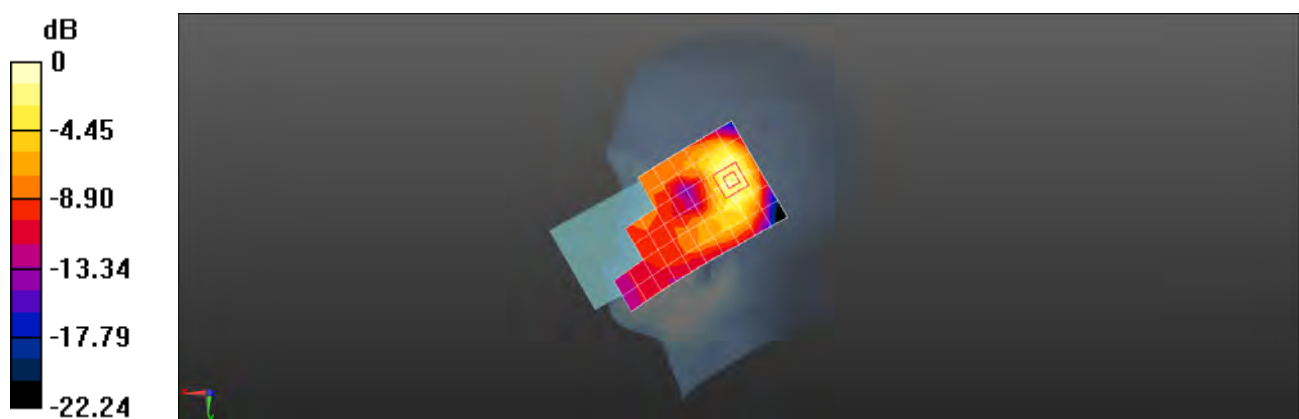
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.45 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.320 W/kg

SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.265 W/kg



Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band II 9400CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1.579

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.693 W/kg

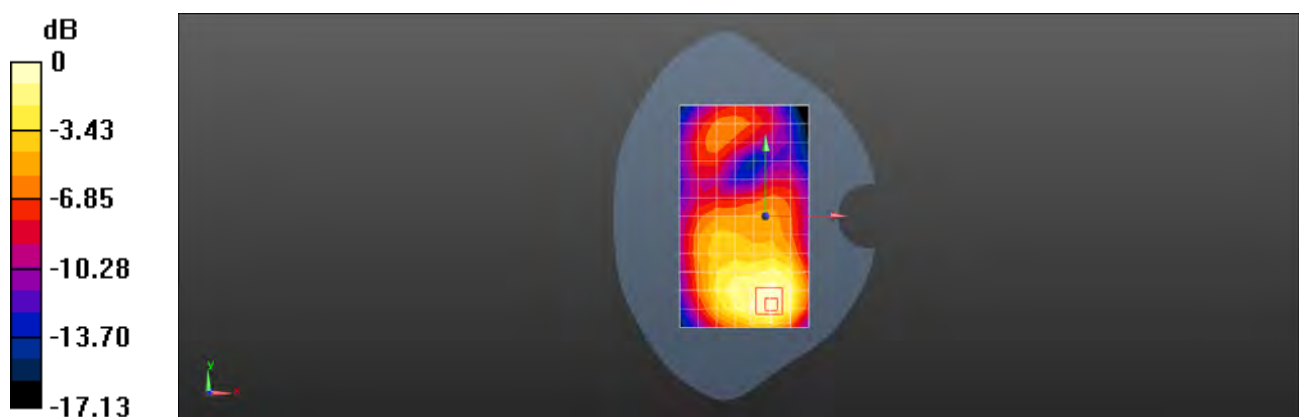
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.17 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 0.721 W/kg



0 dB = 0.721 W/kg = -1.42 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band II 9400CH Bottom side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1.579

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.764 W/kg

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

Reference Value = 19.84 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.364 W/kg

Maximum value of SAR (measured) = 0.984 W/kg



0 dB = 0.984 W/kg = -0.07 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band II 9400CH Bottom side 0mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band II; Frequency: 1880 MHz; Duty Cycle: 1:1.579

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 9.49 W/kg

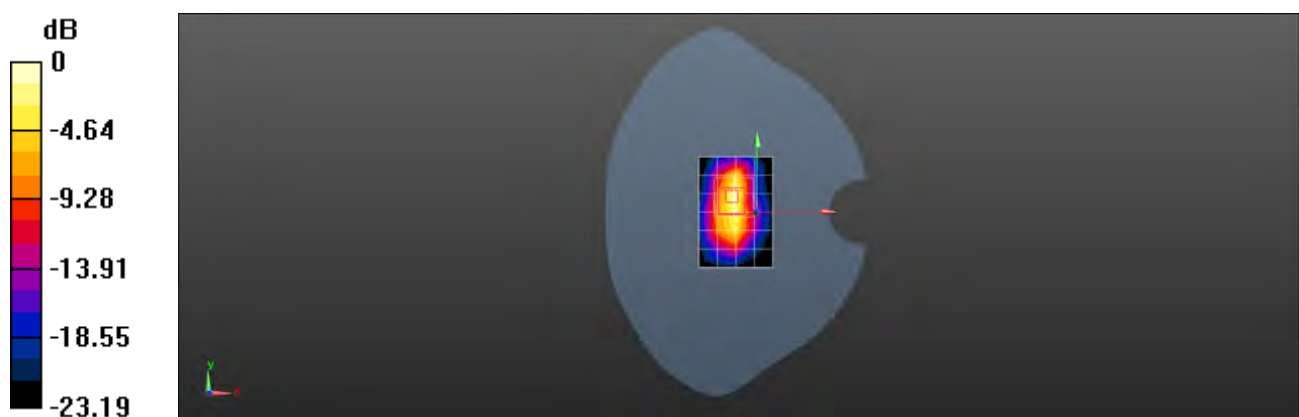
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.72 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 6.28 W/kg; SAR(10 g) = 2.59 W/kg

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 11.2 W/kg = 10.49 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band IV 1513CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band IV; Frequency: 1752.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1752.4$ MHz; $\sigma = 1.333$ S/m; $\epsilon_r = 39.567$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.12 W/kg

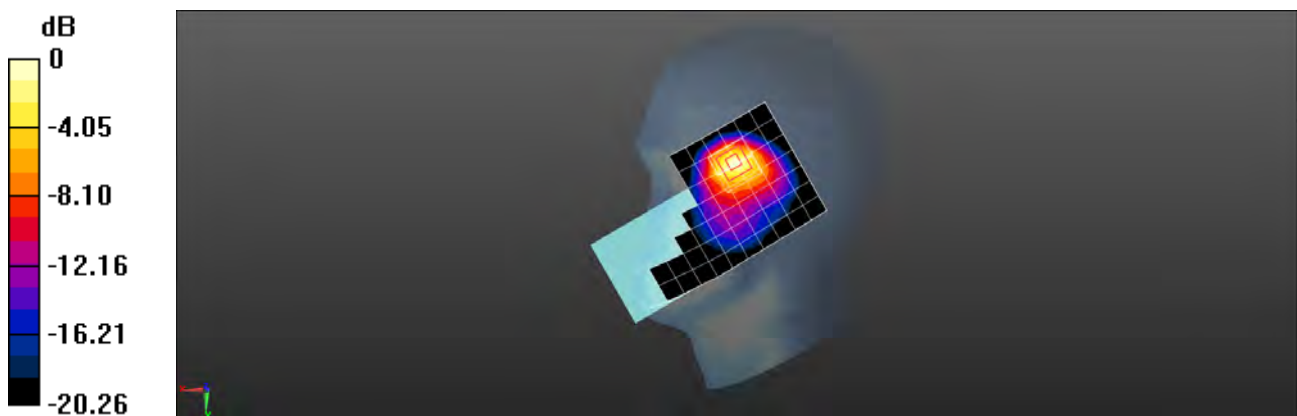
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.138 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.291 W/kg

Maximum value of SAR (measured) = 0.999 W/kg



0 dB = 0.999 W/kg = -0.00 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band IV 1412CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.342 W/kg

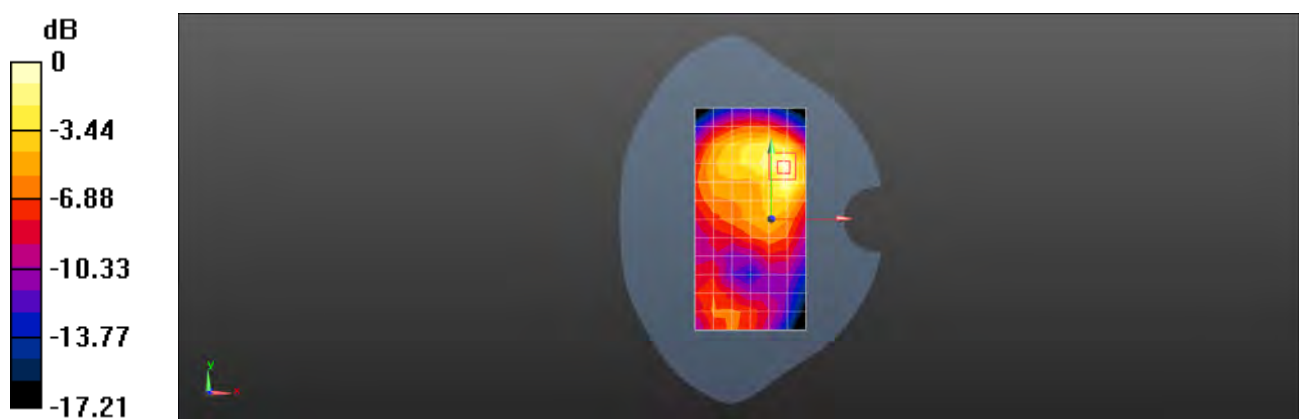
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.603 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.152 W/kg

Maximum value of SAR (measured) = 0.373 W/kg



0 dB = 0.373 W/kg = -4.28 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band IV 1412CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.156 W/kg

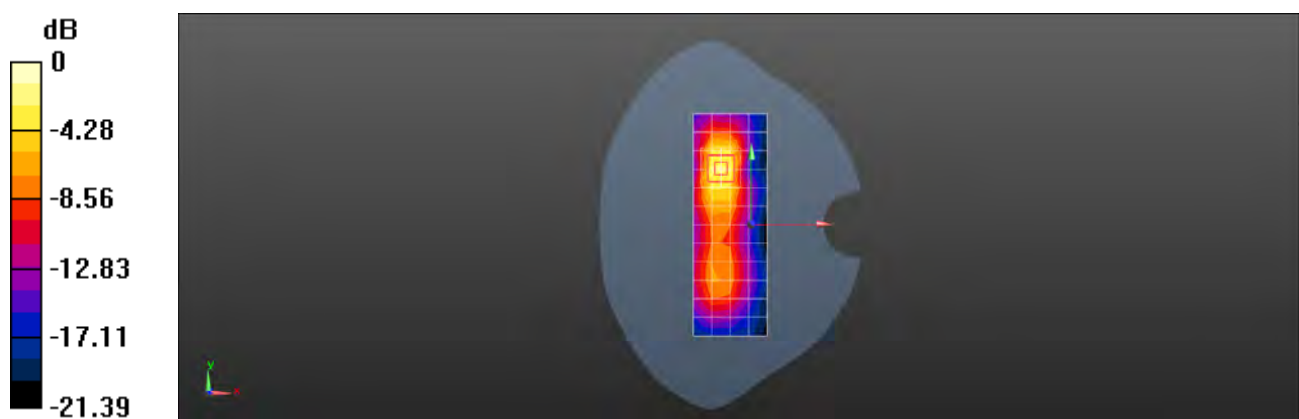
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.055 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.279 W/kg = -5.54 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band IV 1412CH Right titled Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.189 W/kg

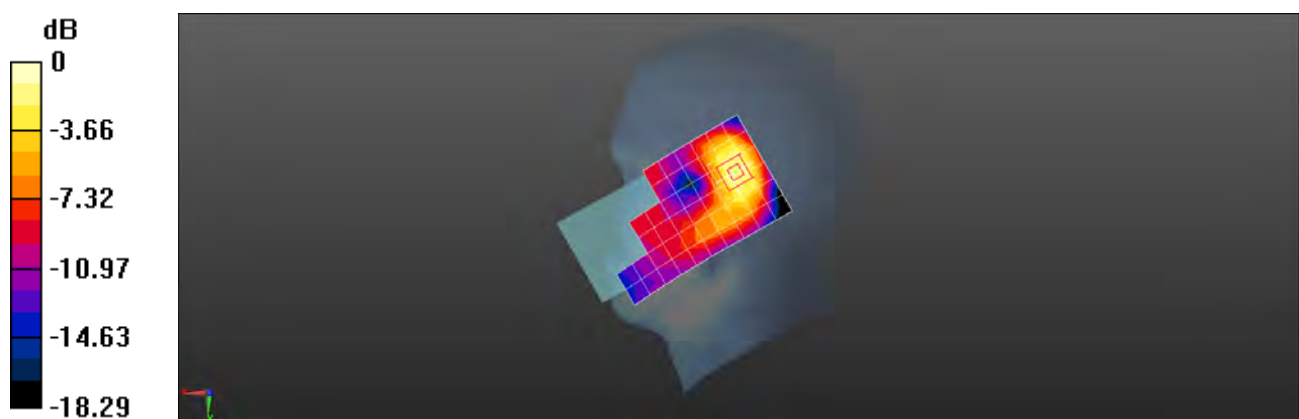
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.66 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.290 W/kg

SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.243 W/kg



0 dB = 0.243 W/kg = -6.14 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band IV 1412CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band IV; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.511 W/kg

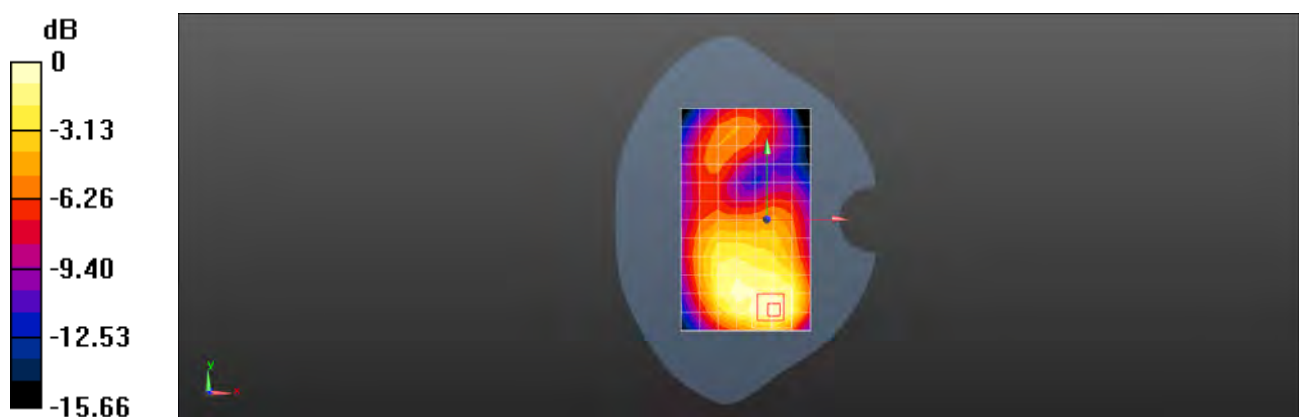
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.797 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band IV 1513CH Bottom side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band IV; Frequency: 1752.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1752.4$ MHz; $\sigma = 1.333$ S/m; $\epsilon_r = 39.567$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.785 W/kg

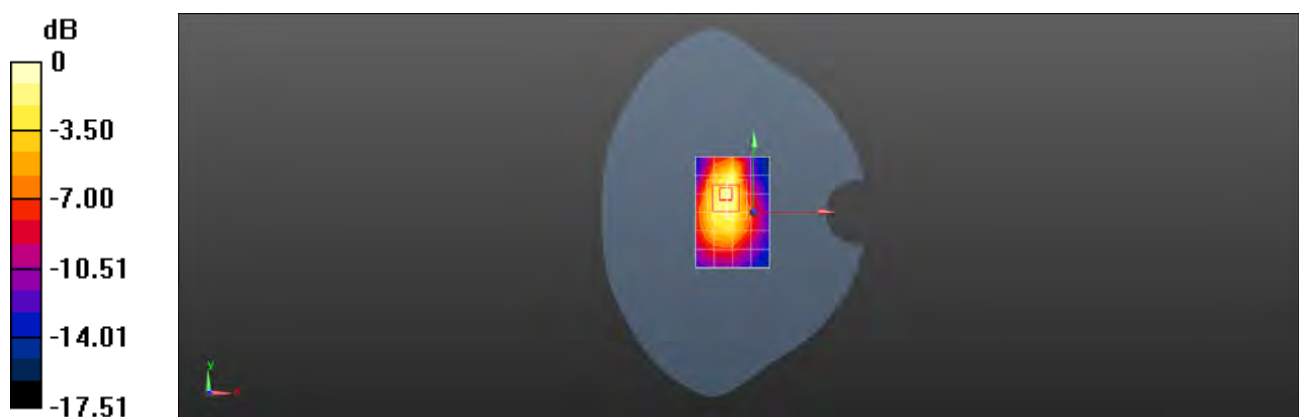
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.51 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.369 W/kg

Maximum value of SAR (measured) = 0.955 W/kg



0 dB = 0.955 W/kg = -0.20 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band IV 1513CH Bottom side 0mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band IV; Frequency: 1752.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1752.4$ MHz; $\sigma = 1.333$ S/m; $\epsilon_r = 39.567$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.68 W/kg

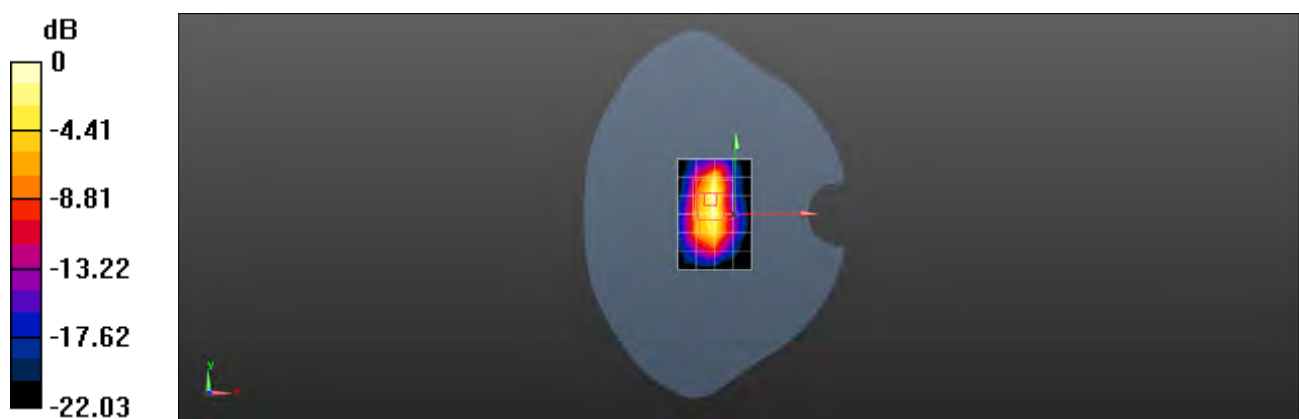
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.87 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 9.56 W/kg

SAR(1 g) = 3.98 W/kg; SAR(10 g) = 1.75 W/kg

Maximum value of SAR (measured) = 6.81 W/kg



0 dB = 6.81 W/kg = 8.33 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band V 4182CH Left cheek Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.614$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.143 W/kg

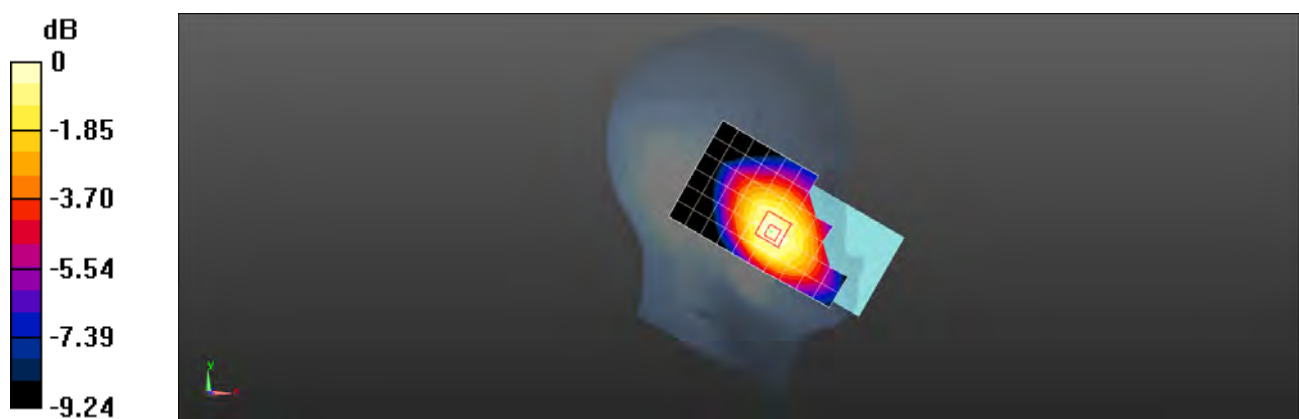
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.950 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.164 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.098 W/kg

Maximum value of SAR (measured) = 0.147 W/kg



Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band V 4182CH Back side 15mm Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.614$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.262 W/kg

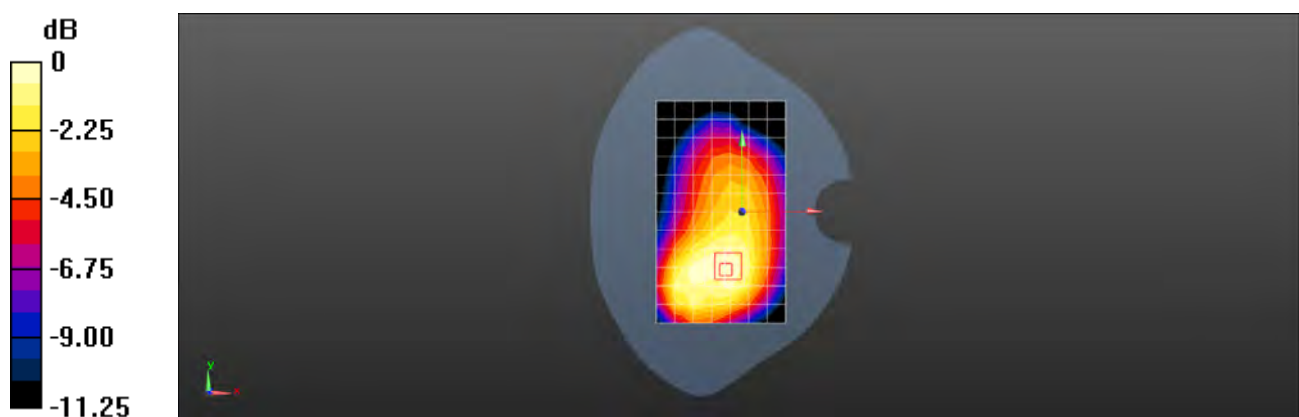
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.07 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.309 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.266 W/kg = -5.75 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band V 4182CH Back side 10mm Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.614$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.529 W/kg

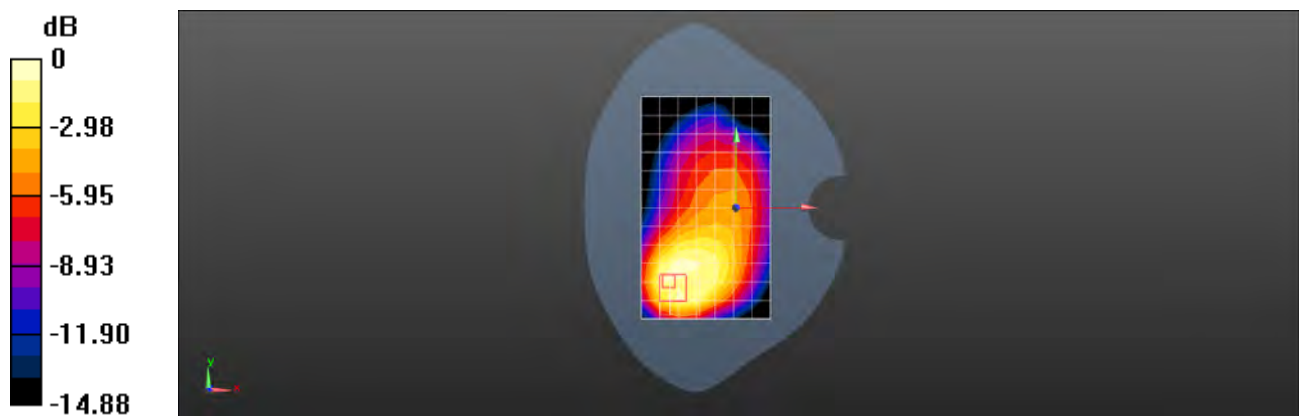
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.04 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.766 W/kg

SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.239 W/kg

Maximum value of SAR (measured) = 0.592 W/kg



0 dB = 0.592 W/kg = -2.28 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band V 4233CH Right cheek Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 847$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.492$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.19 W/kg

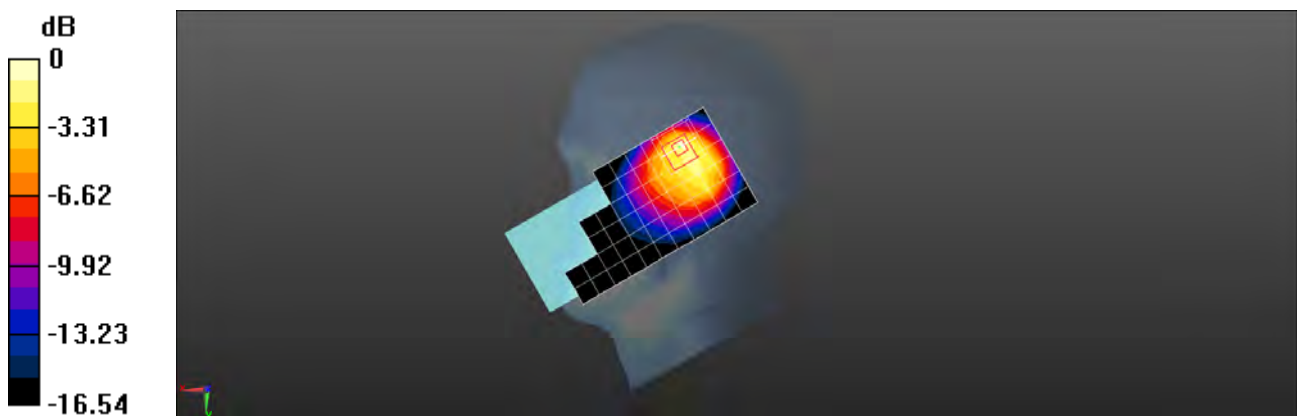
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.04 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.415 W/kg

Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band V 4182CH Back side 15mm Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.614$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.307 W/kg

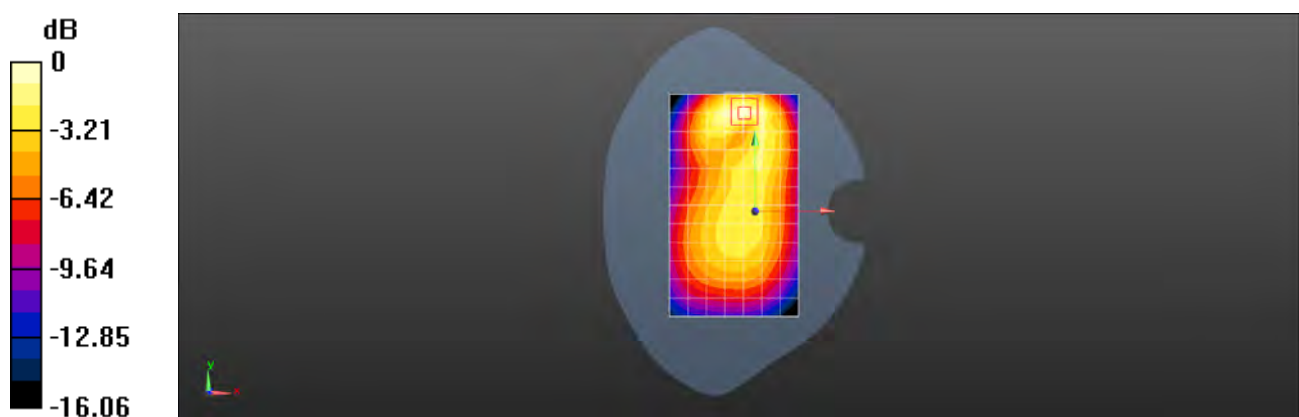
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.03 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.379 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.306 W/kg



0 dB = 0.306 W/kg = -5.14 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WCDMA Band V 4182CH Top side 10mm Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.614$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.367 W/kg

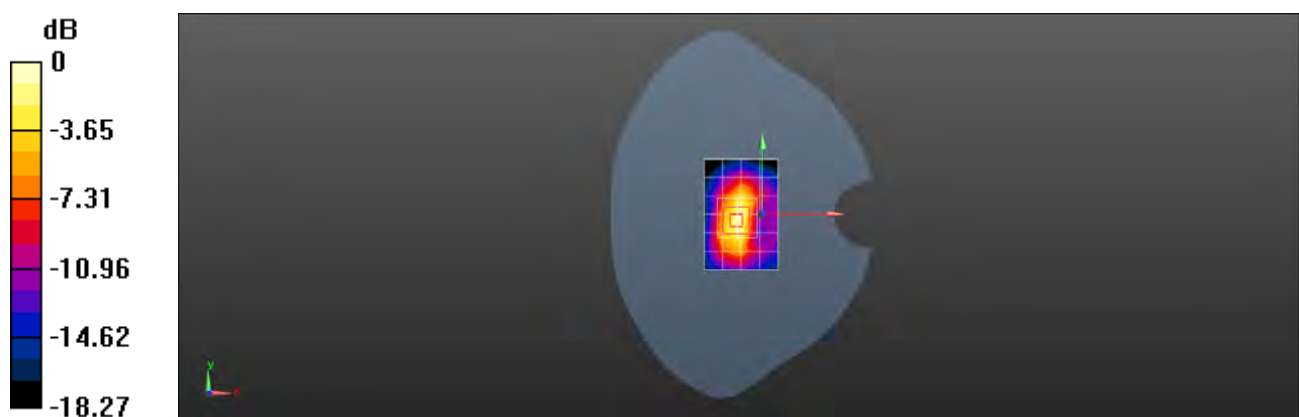
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.52 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.557 W/kg

SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 0.411 W/kg



0 dB = 0.411 W/kg = -3.86 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 2 20M QPSK 50RB50 19100CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 41.472$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.07 W/kg

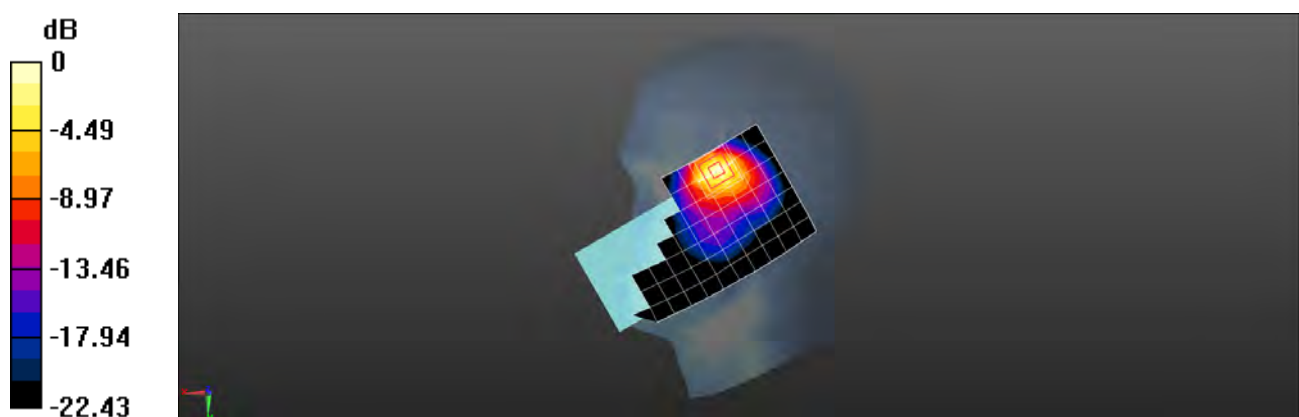
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.379 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 2 20M QPSK 1RB50 18700CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1860$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 41.545$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.409 W/kg

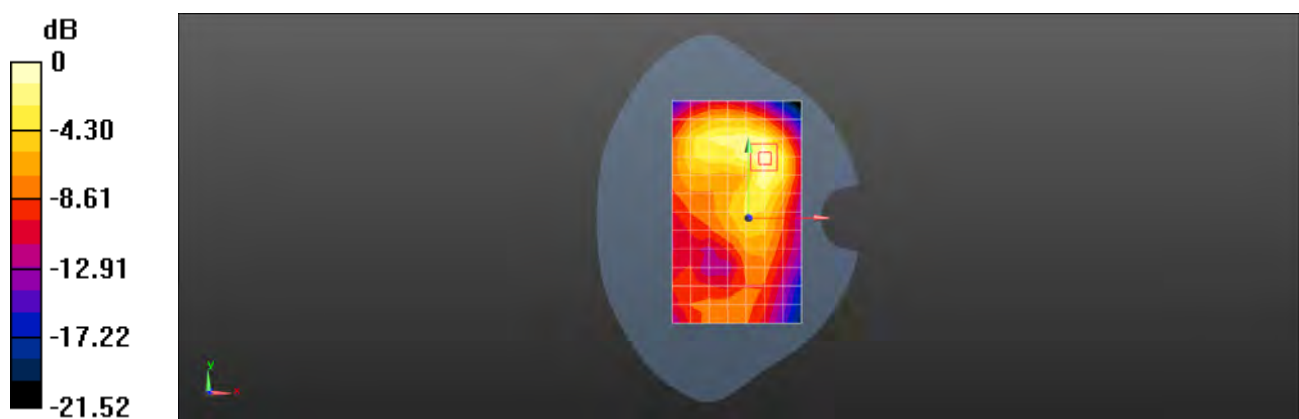
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.005 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.419 W/kg



Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 2 20M QPSK 50RB50 19100CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 2; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium: HSL1900;Medium parameters used: $f = 1900$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 41.472$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.193 W/kg

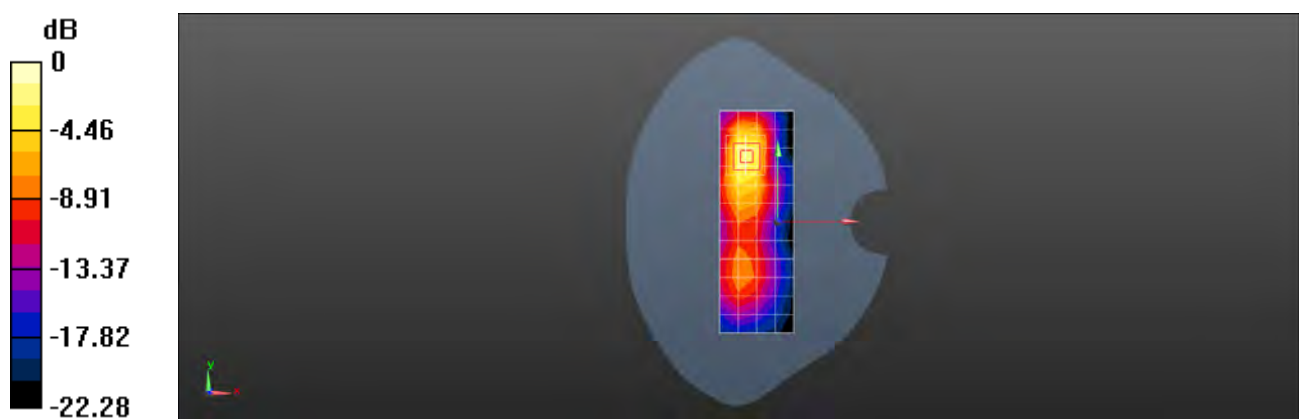
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.486 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.415 W/kg

SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.103 W/kg

Maximum value of SAR (measured) = 0.327 W/kg



0 dB = 0.327 W/kg = -4.85 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 2 20M QPSK 1RB0 18900CH Right cheek Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.202 W/kg

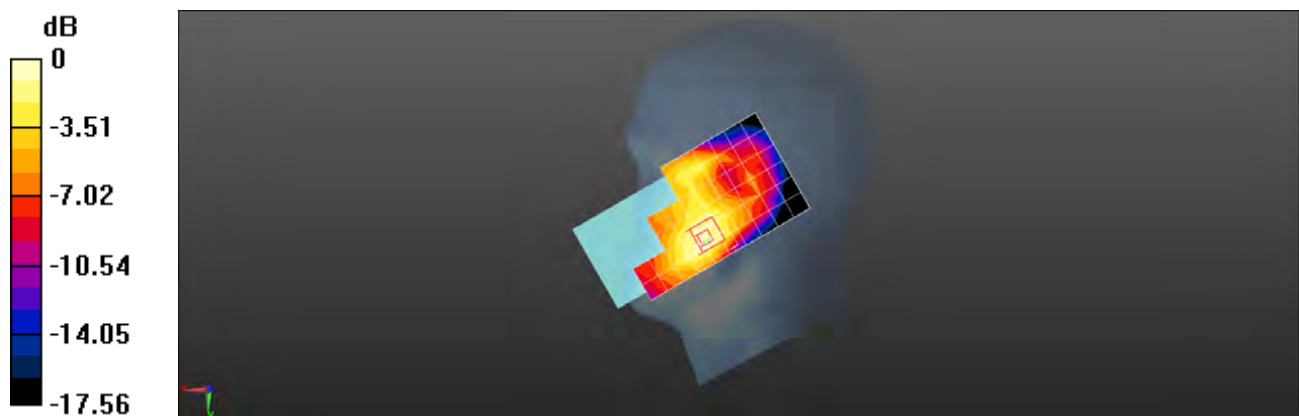
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.353 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.215 W/kg



0 dB = 0.215 W/kg = -6.68 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 2 20M QPSK 1RB0 18900CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.589 W/kg

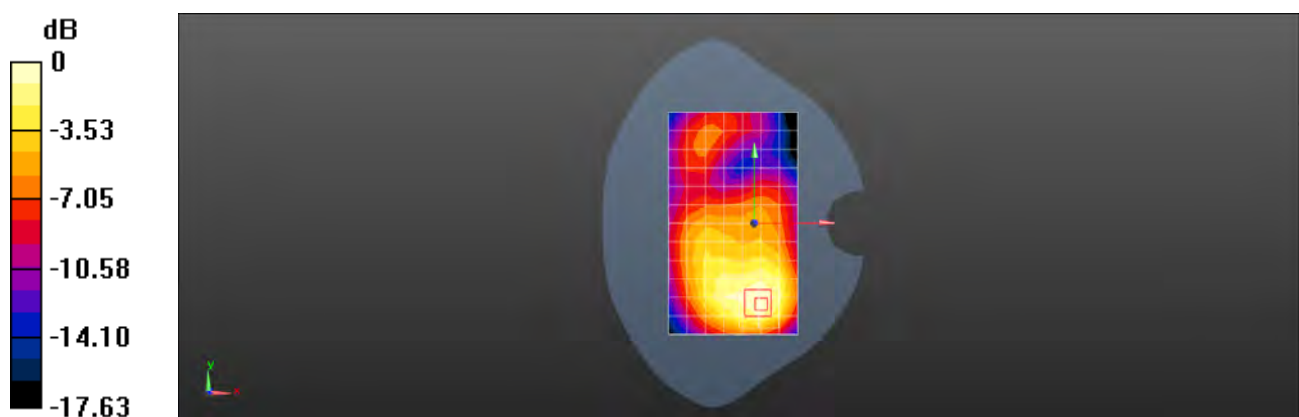
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.48 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.776 W/kg

SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.291 W/kg

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



0 dB = 0.631 W/kg = -2.00 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 2 20M QPSK 50RB0 18900CH Bottom side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 2; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.614 W/kg

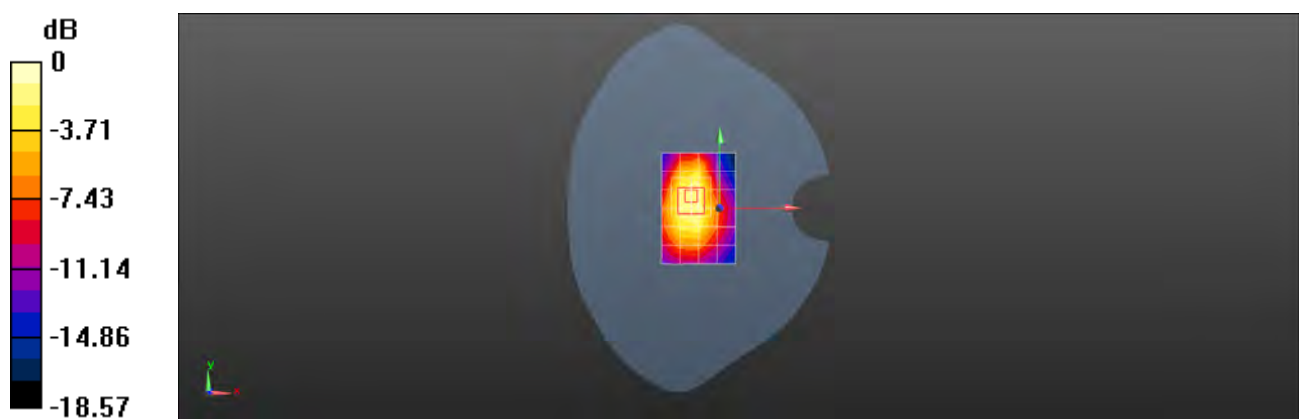
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.76 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.306 W/kg

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



Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 2 20M QPSK 1RB50 19100CH Bottom side 0mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 41.472$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 8.30 W/kg

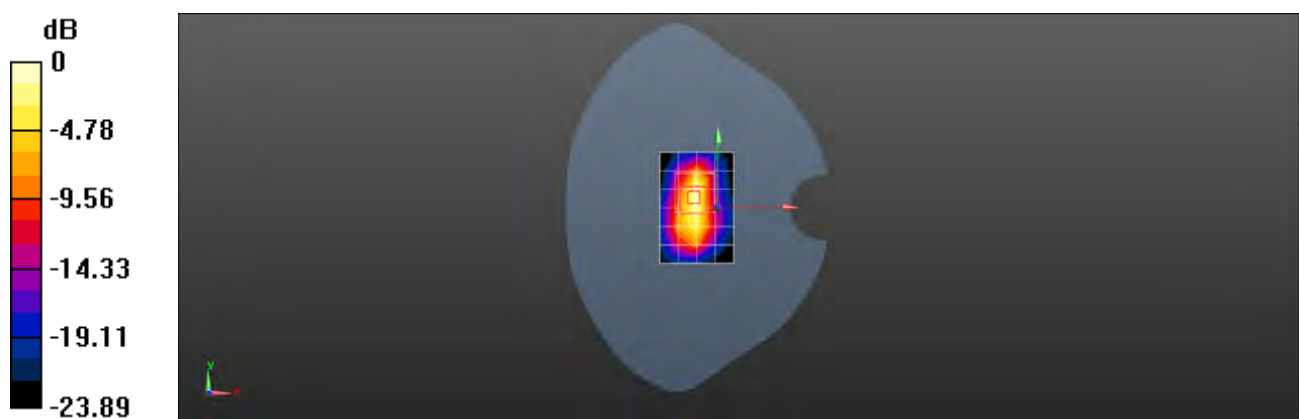
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.05 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(1 g) = 5.41 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 9.49 W/kg



0 dB = 9.49 W/kg = 9.77 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 4 20M QPSK 1RB50 20175CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.833 W/kg

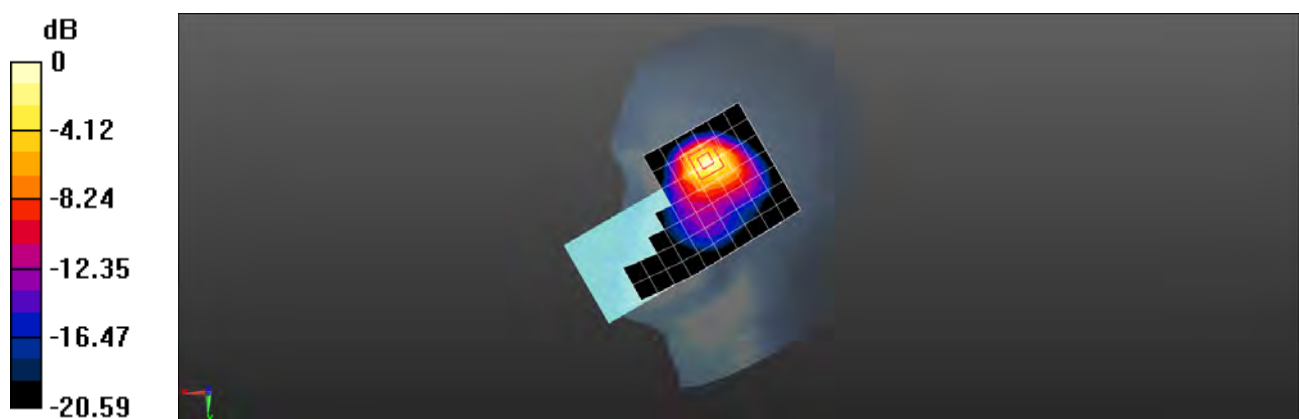
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.182 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.779 W/kg



0 dB = 0.779 W/kg = -1.08 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 4 20M QPSK 1RB50 20175CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.286 W/kg

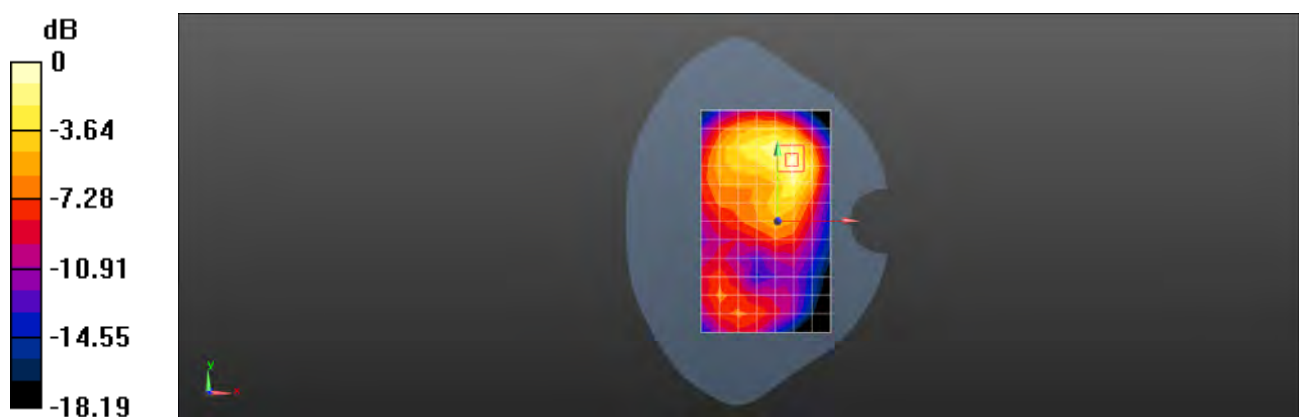
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.810 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.370 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.296 W/kg



0 dB = 0.296 W/kg = -5.29 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 4 20M QPSK 1RB50 20175CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.127 W/kg

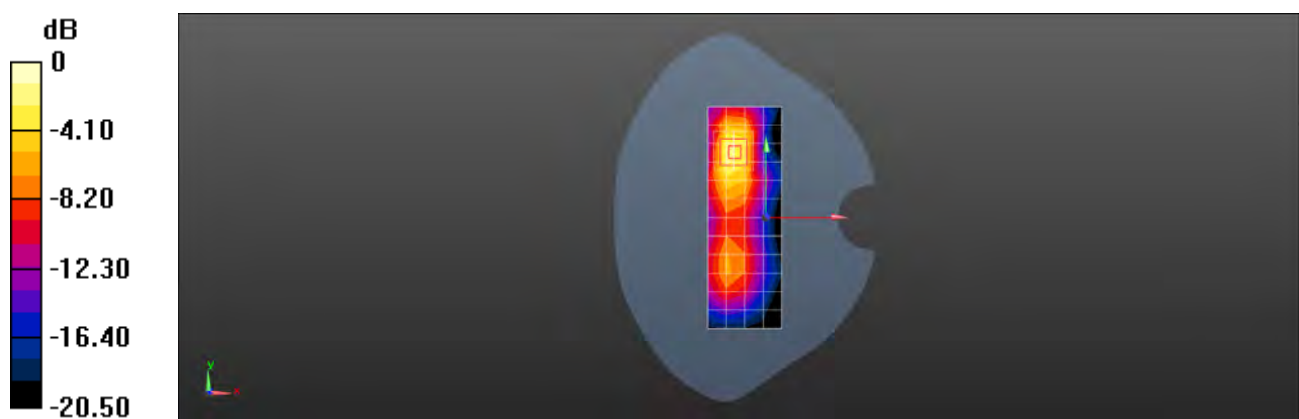
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.917 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.213 W/kg



Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 4 20M QPSK 1RB50 20175CH Right titled Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.155 W/kg

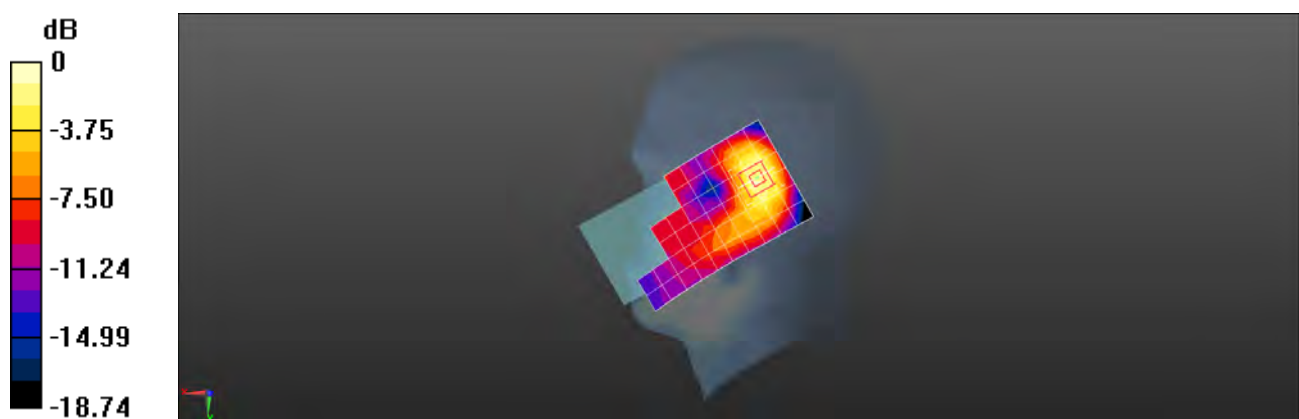
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.533 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.195 W/kg = -7.10 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 4 20M QPSK 1RB50 20175CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.312$ S/m; $\epsilon_r = 39.629$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.436 W/kg

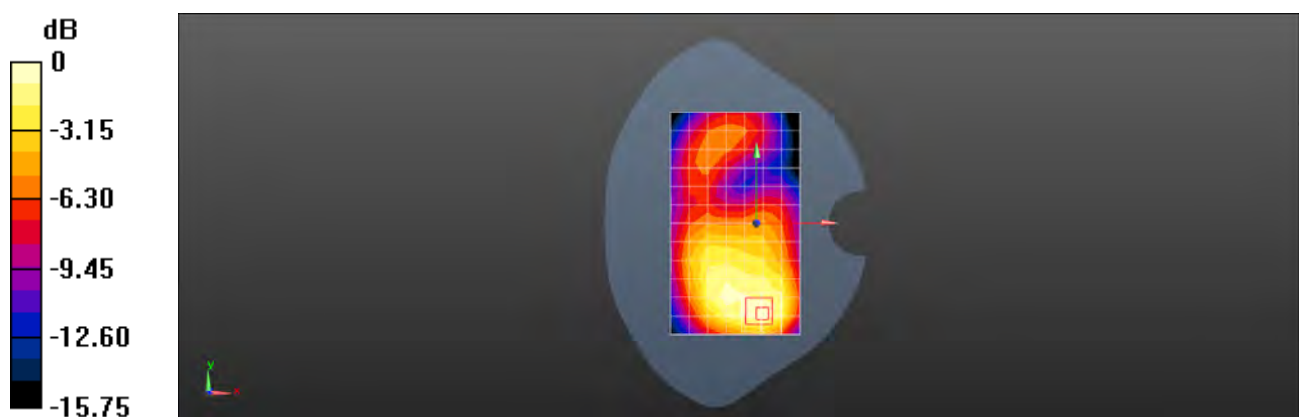
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.989 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.208 W/kg

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



0 dB = 0.439 W/kg = -3.58 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 4 20M QPSK 50RB25 20300CH Bottom side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 4; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used: $f = 1745$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 39.59$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 8; Type: SAM; Serial: 1063
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.685 W/kg

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

Reference Value = 20.49 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.360 W/kg

Maximum value of SAR (measured) = 0.899 W/kg



0 dB = 0.899 W/kg = -0.46 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 5 10M QPSK 1RB0 20450CH Left cheek Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.754$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.103 W/kg

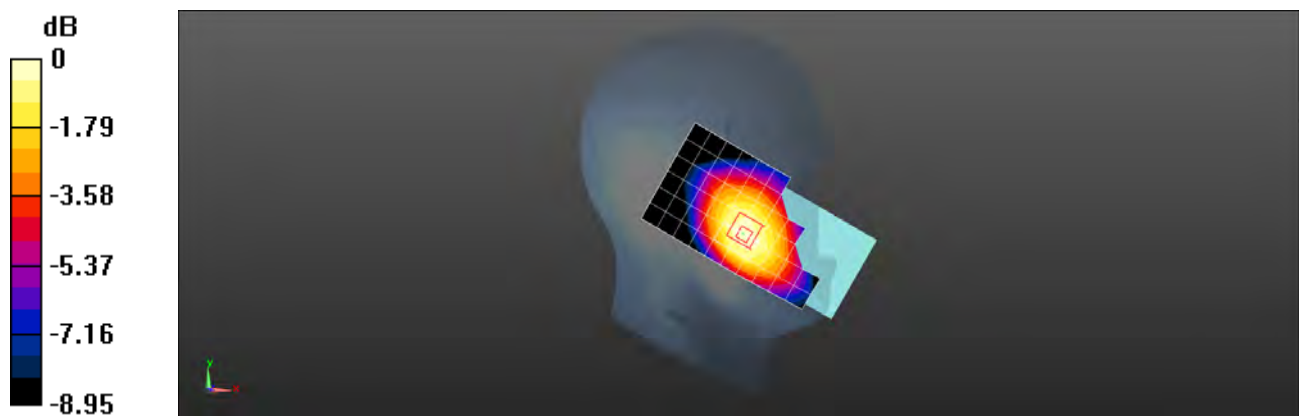
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.704 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.071 W/kg

Maximum value of SAR (measured) = 0.105 W/kg



0 dB = 0.105 W/kg = -9.79 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 5 10M QPSK 1RB0 20450CH Back side 15mm Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.754$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.191 W/kg

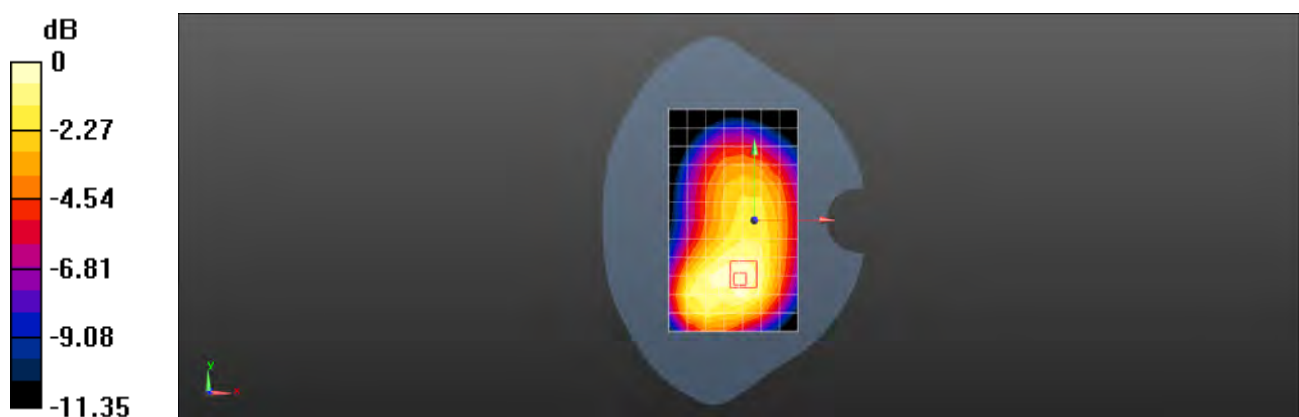
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.78 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.220 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.115 W/kg

Maximum value of SAR (measured) = 0.193 W/kg



0 dB = 0.193 W/kg = -7.14 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 5 10M QPSK 1RB0 20450CH Back side 10mm Ant1

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.754$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.379 W/kg

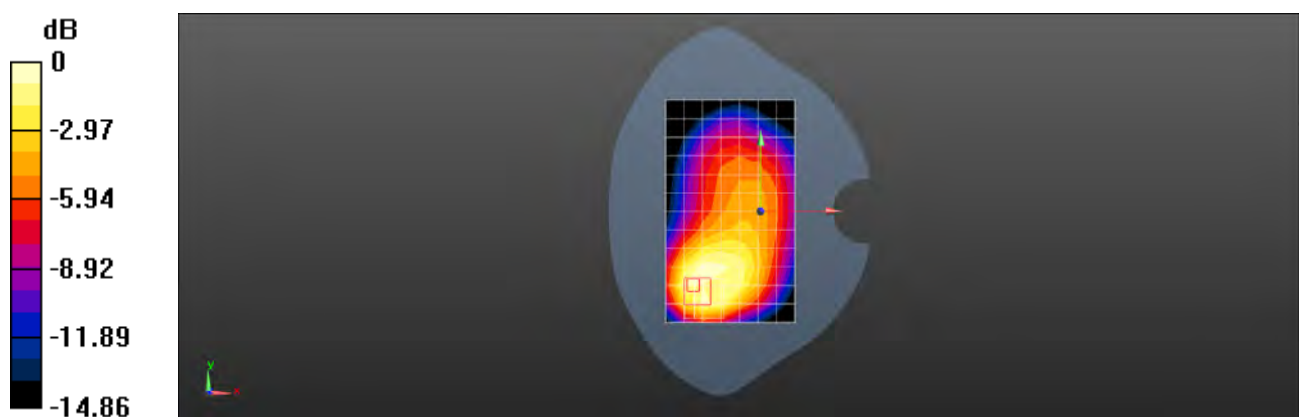
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.55 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.549 W/kg

SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.174 W/kg

Maximum value of SAR (measured) = 0.425 W/kg



0 dB = 0.425 W/kg = -3.72 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 5 10M QPSK 25RB0 20600CH Right cheek Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 844$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 41.546$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.13 W/kg

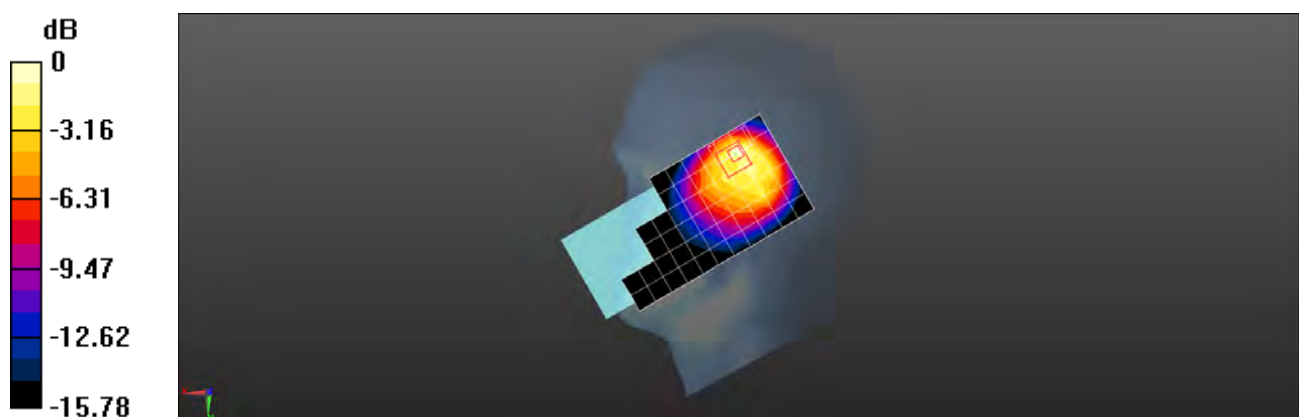
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.09 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.385 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 5 10M QPSK 1RB0 20525CH Back side 15mm Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.612$;

$\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.281 W/kg

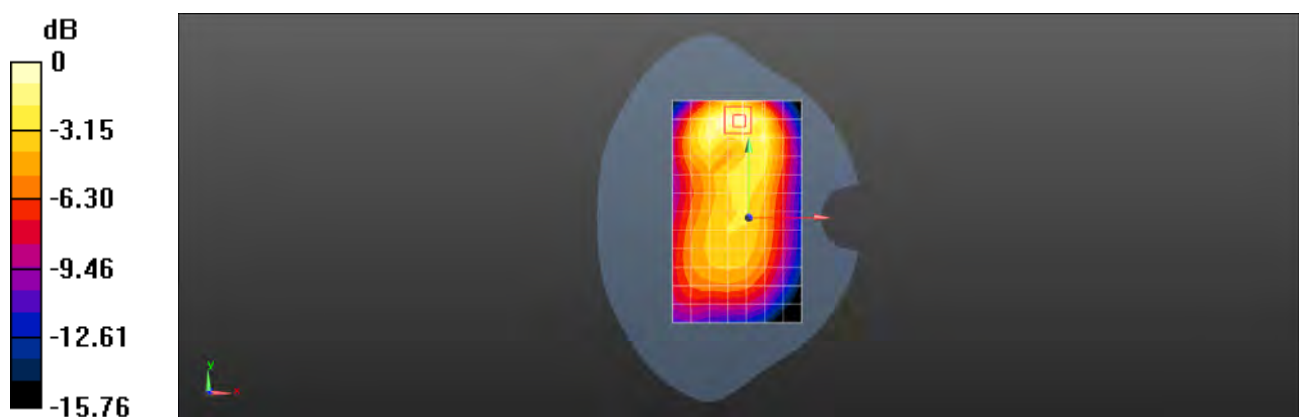
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.83 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.292 W/kg



0 dB = 0.292 W/kg = -5.35 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 5 10M QPSK 25RB25 20450CH Top side 10mm Ant4

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, LTE Band 5 10MHz; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 829$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.754$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(10.39, 10.39, 10.39); Calibrated: 2019-09-11
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: SAM 7; Type: SAM; Serial: 1027
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.294 W/kg

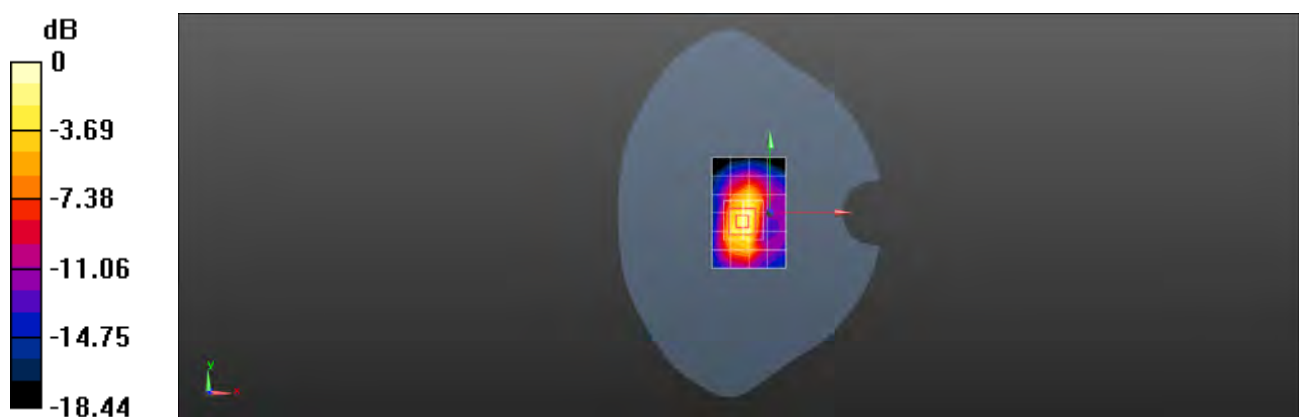
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.44 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.363 W/kg



0 dB = 0.363 W/kg = -4.40 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 7 20M QPSK 50RB25 20850CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2510$ MHz; $\sigma = 1.853$ S/m; $\epsilon_r = 40.52$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.695 W/kg

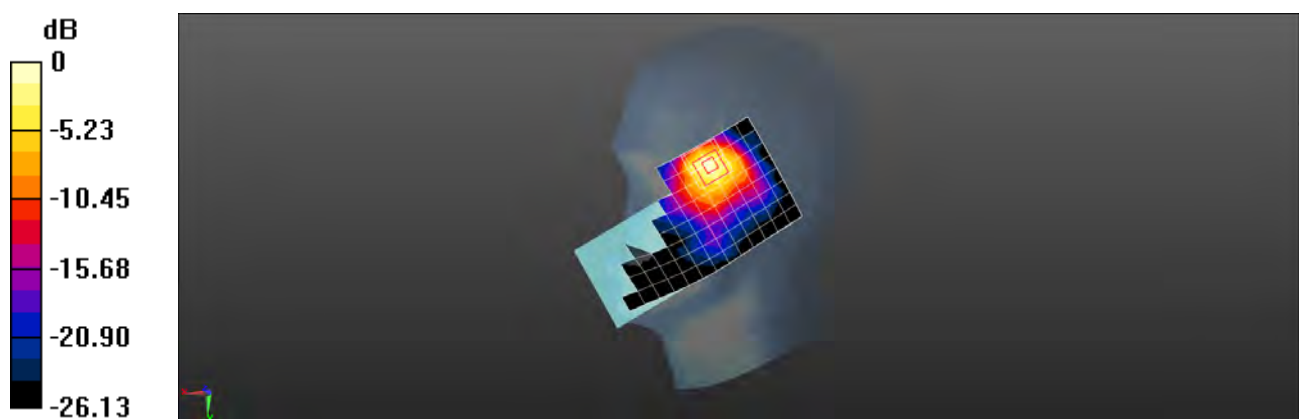
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.383 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 0.798 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 7 20M QPSK 1RB0 21350CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2560$ MHz; $\sigma = 1.904$ S/m; $\epsilon_r = 40.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.363 W/kg

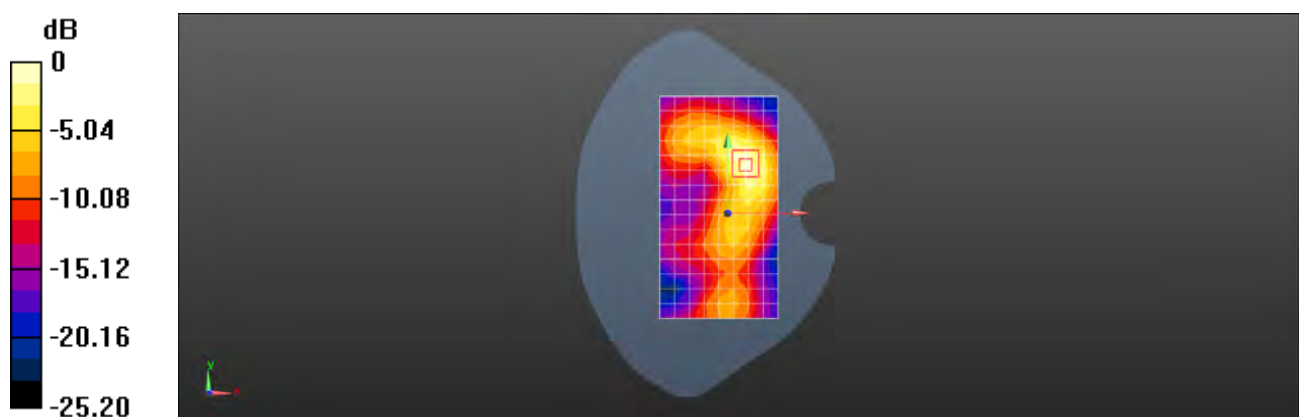
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.818 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.384 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 7 20M QPSK 1RB50 20850CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2510$ MHz; $\sigma = 1.853$ S/m; $\epsilon_r = 40.52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.154 W/kg

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

Reference Value = 5.585 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.186 W/kg



0 dB = 0.186 W/kg = -7.30 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 7 20M QPSK 1RB0 21350CH Left cheek Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2560$ MHz; $\sigma = 1.933$ S/m; $\epsilon_r = 40.001$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.300 W/kg

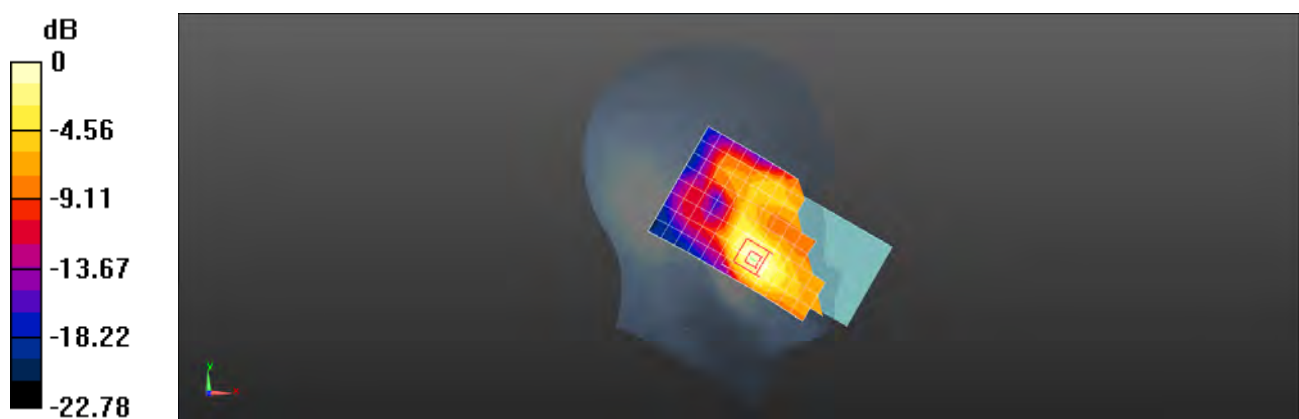
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.070 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.326 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 7 20M QPSK 1RB0 21350CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2560$ MHz; $\sigma = 1.933$ S/m; $\epsilon_r = 40.001$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.678 W/kg

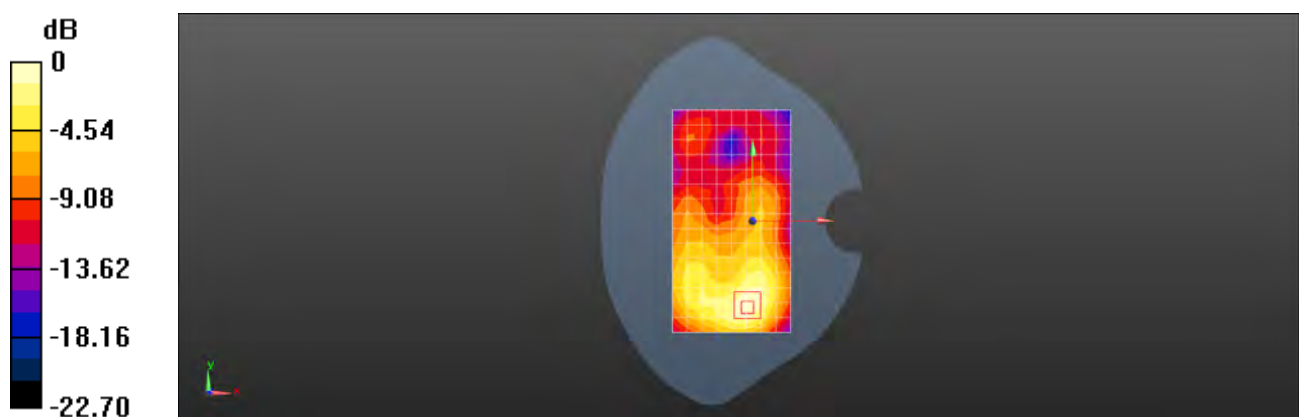
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.950 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.867 W/kg

SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 0.709 W/kg



0 dB = 0.709 W/kg = -1.49 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 7 20M QPSK 50RB50 20850CH Back side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2510$ MHz; $\sigma = 1.854$ S/m; $\epsilon_r = 40.112$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.615 W/kg

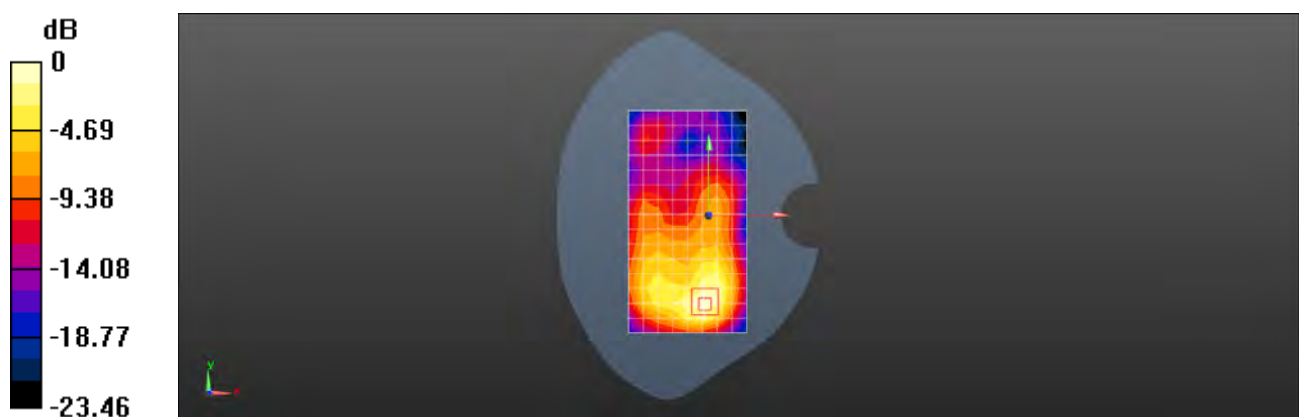
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.597 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.617 W/kg



0 dB = 0.617 W/kg = -2.10 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 38 20M QPSK 1RB0 38150CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2610 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2610$ MHz; $\sigma = 1.966$ S/m; $\epsilon_r = 40.104$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.763 W/kg

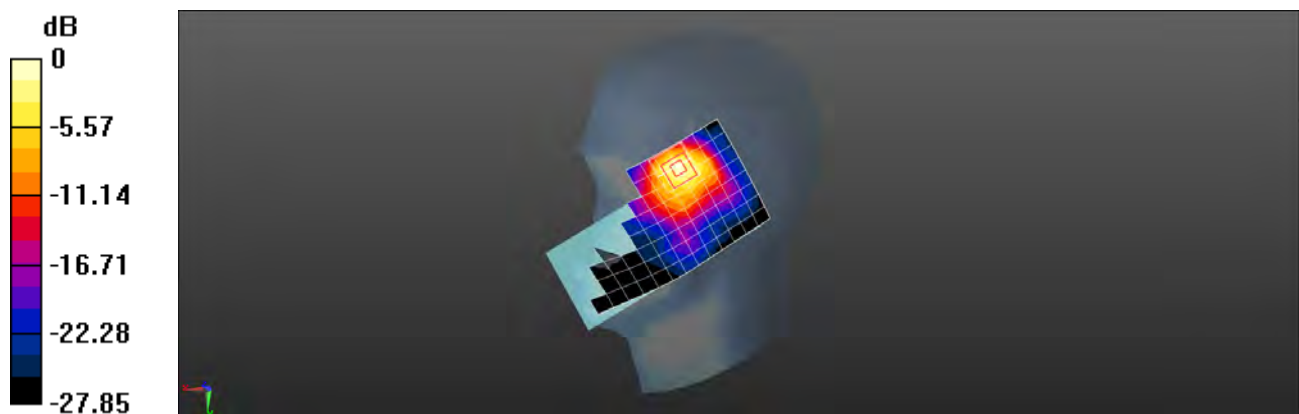
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.388 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.216 W/kg

Maximum value of SAR (measured) = 0.932 W/kg



0 dB = 0.932 W/kg = -0.31 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 38 20M QPSK 1RB0 38000CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2595 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2595$ MHz; $\sigma = 1.945$ S/m; $\epsilon_r = 40.188$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.329 W/kg

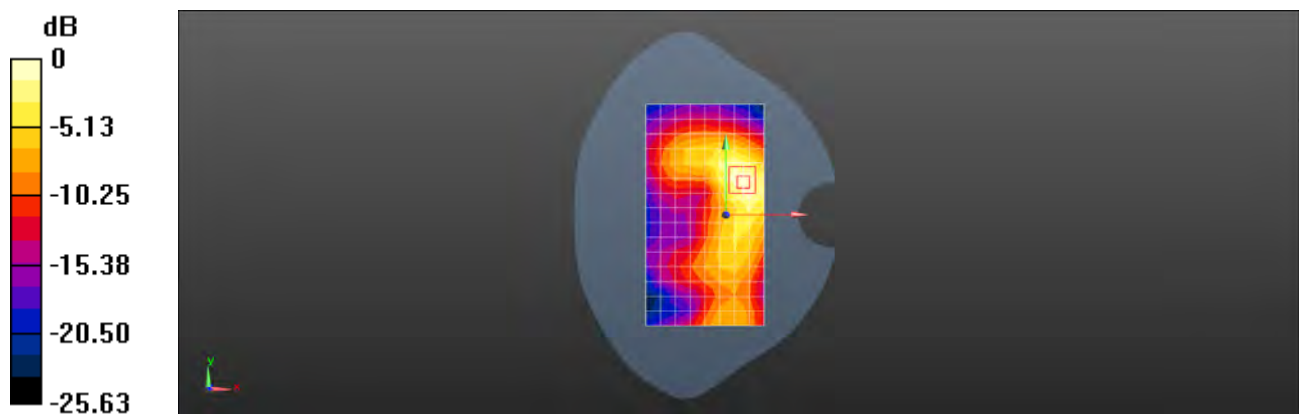
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.369 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.454 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.114 W/kg

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



0 dB = 0.366 W/kg = -4.37 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 38 20M QPSK 1RB0 38150CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2610 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2610$ MHz; $\sigma = 1.966$ S/m; $\epsilon_r = 40.104$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.235 W/kg

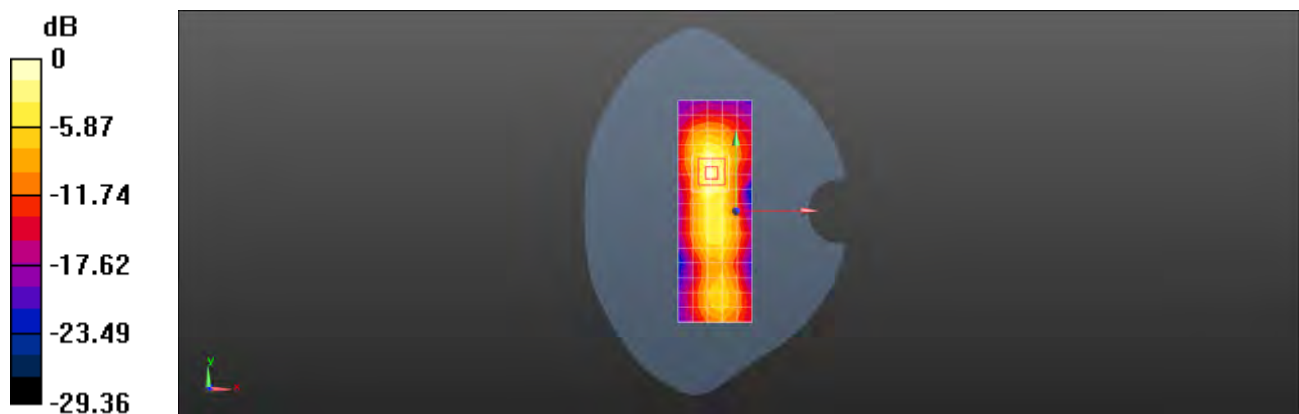
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.396 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.065 W/kg

Maximum value of SAR (measured) = 0.284 W/kg



0 dB = 0.284 W/kg = -5.47 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 38 20M QPSK 1RB50 38000CH Left cheek Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2595 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2595$ MHz; $\sigma = 1.963$ S/m; $\epsilon_r = 39.918$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.184 W/kg

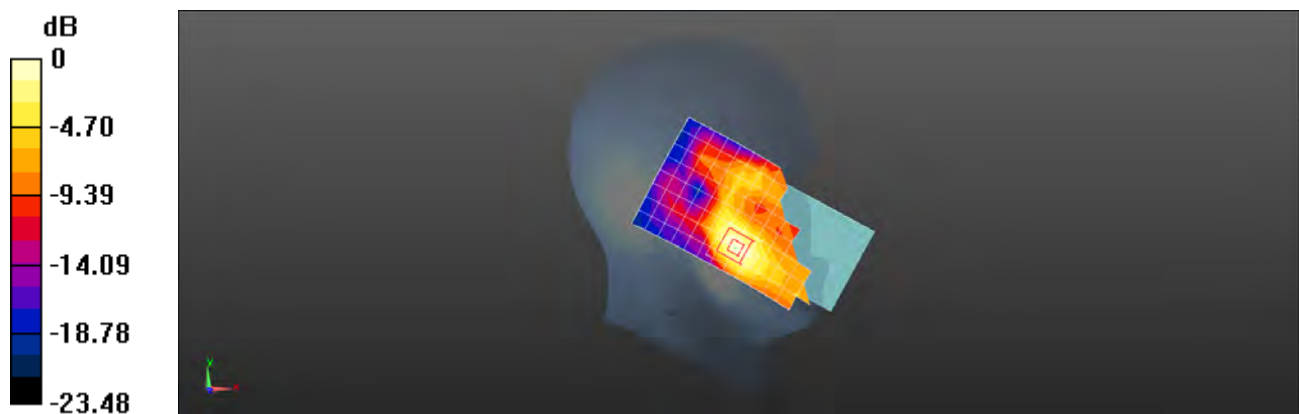
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.944 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.202 W/kg



0 dB = 0.202 W/kg = -6.95 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 38 20M QPSK 1RB50 38000CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2595 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2595$ MHz; $\sigma = 1.963$ S/m; $\epsilon_r = 39.918$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.411 W/kg

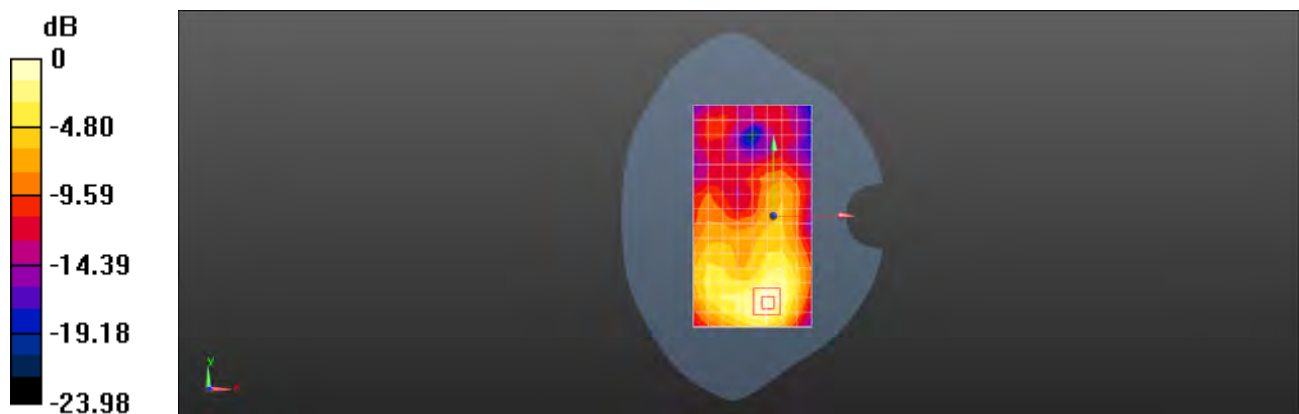
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.235 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.543 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.440 W/kg = -3.57 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 38 20M QPSK 1RB0 37850CH Back side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2580 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2580$ MHz; $\sigma = 1.955$ S/m; $\epsilon_r = 39.93$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.619 W/kg

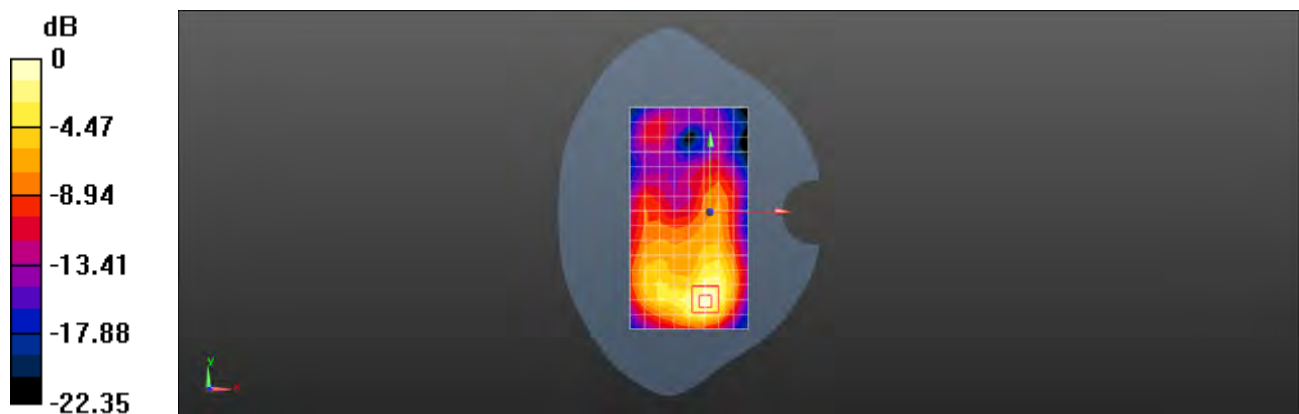
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.158 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.793 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 0.618 W/kg



0 dB = 0.618 W/kg = -2.09 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 41 20M QPSK 1RB0 40185CH Right cheek Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used (interpolated): $f = 2549.5$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 40.701$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.658 W/kg

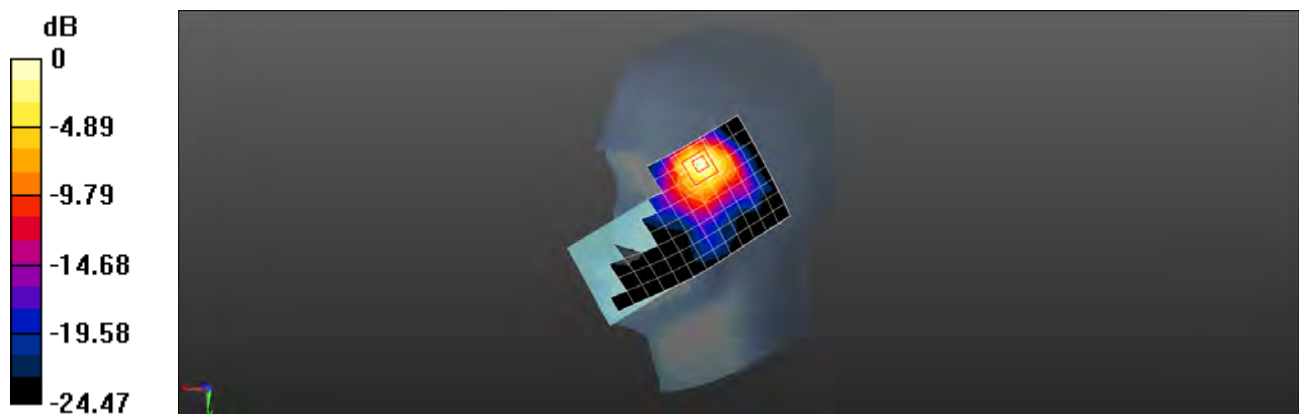
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.245 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.781 W/kg



0 dB = 0.781 W/kg = -1.07 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 41 20M QPSK 1RB50 41490CH Back side 15mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2680 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2680$ MHz; $\sigma = 2.076$ S/m; $\epsilon_r = 40.187$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.257 W/kg

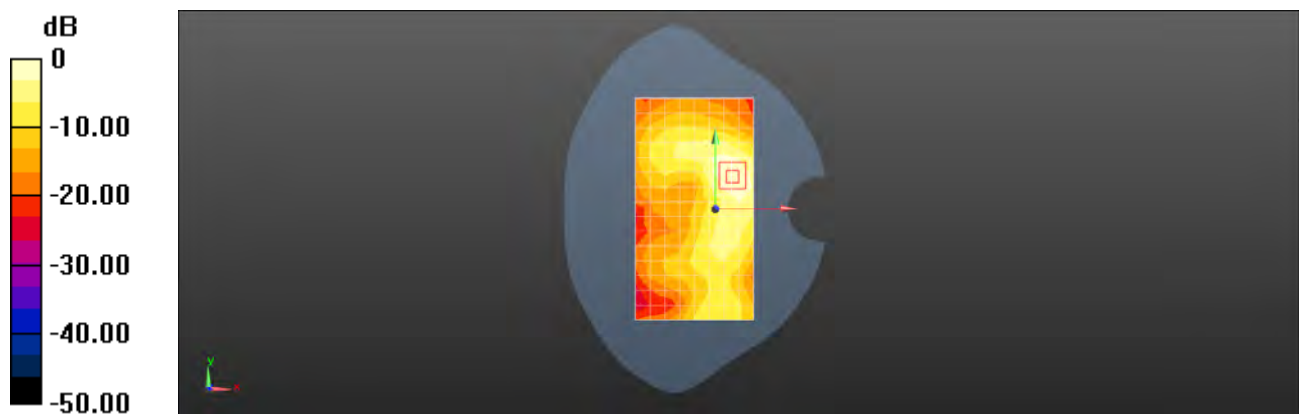
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.480 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.299 W/kg



0 dB = 0.299 W/kg = -5.24 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 41 20M QPSK 50RB25 41490CH Left side 10mm Ant5

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2680 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2680$ MHz; $\sigma = 2.076$ S/m; $\epsilon_r = 40.187$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.199 W/kg

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

Reference Value = 5.270 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.243 W/kg



0 dB = 0.243 W/kg = -6.14 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 41 20M QPSK 1RB0 39750CH Left cheek Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2506 MHz;Duty Cycle: 1:1.57906

Medium: HSL2600;Medium parameters used: $f = 2506$ MHz; $\sigma = 1.87$ S/m; $\epsilon_r = 40.901$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.178 W/kg

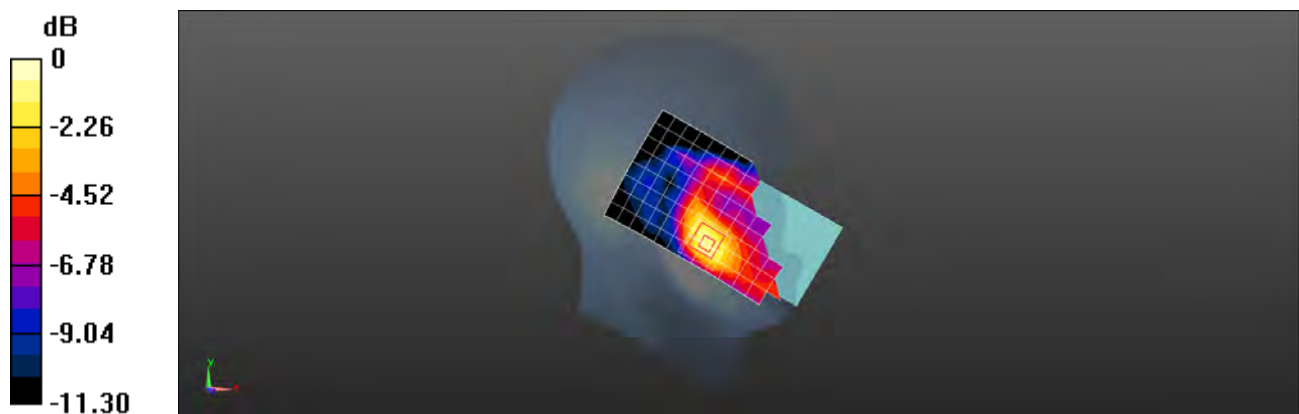
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.383 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.211 W/kg = -6.76 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 41 20M QPSK 1RB0 39750CH Back side 15mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2506 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used: $f = 2506$ MHz; $\sigma = 1.87$ S/m; $\epsilon_r = 40.901$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.397 W/kg

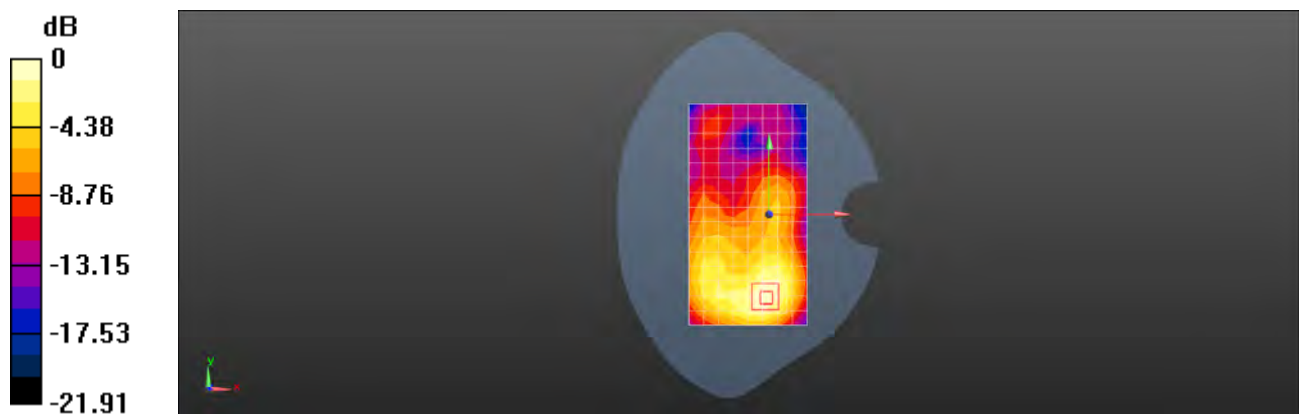
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.812 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.409 W/kg



0 dB = 0.409 W/kg = -3.88 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G LTE Band 41 20M QPSK 50RB25 40185CH Back side 10mm Ant10

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.57906

Medium: HSL2600; Medium parameters used (interpolated): $f = 2549.5$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 40.701$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.487 W/kg

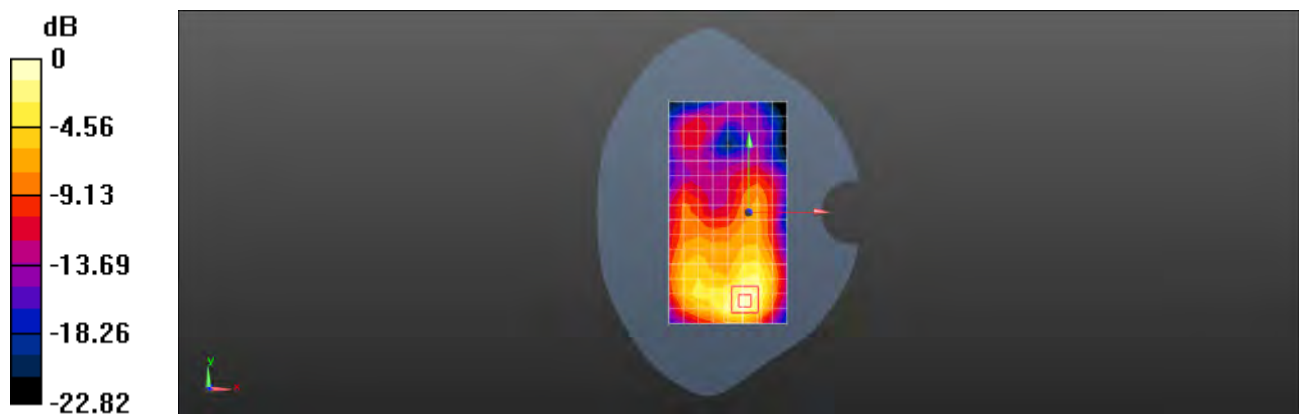
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.923 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.570 W/kg



0 dB = 0.570 W/kg = -2.44 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 2.4G 802.11b 6CH Left cheek Ant8

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.01

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 41.106$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.408 W/kg

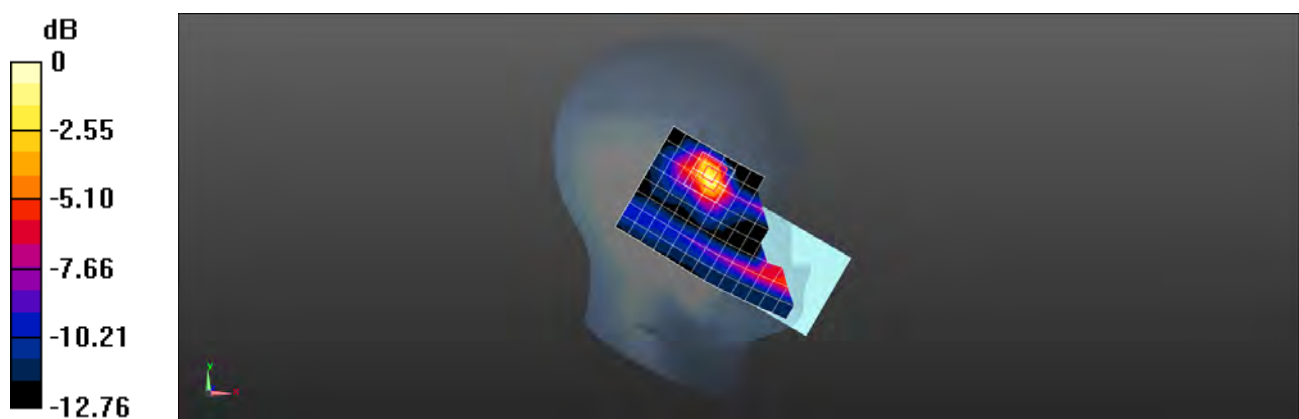
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.905 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.706 W/kg

SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.459 W/kg



0 dB = 0.459 W/kg = -3.38 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 2.4G 802.11b 1CH Back side 15mm Ant8

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2412 MHz;Duty Cycle: 1:1.01

Medium: HSL2450;Medium parameters used: $f = 2412$ MHz; $\sigma = 1.763$ S/m; $\epsilon_r = 41.231$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.230 W/kg

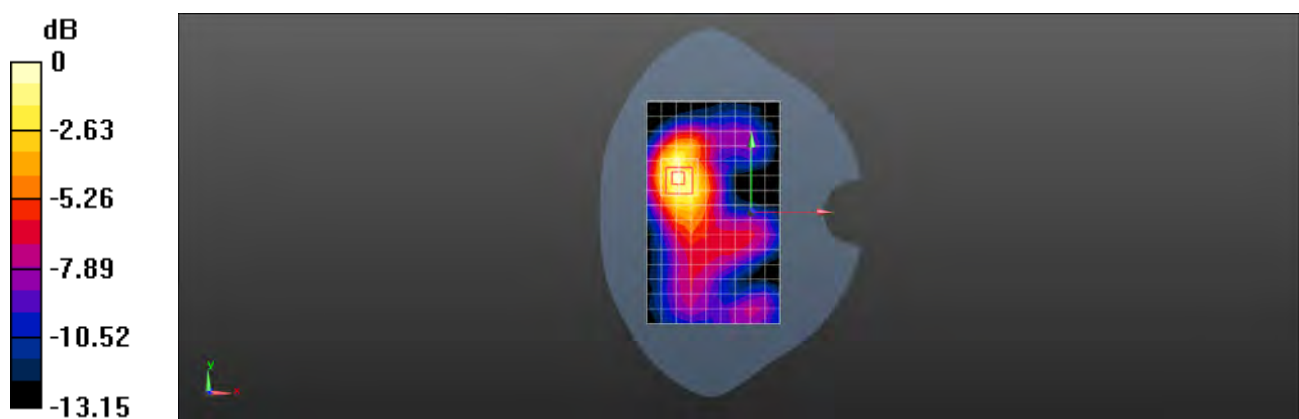
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.770 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.292 W/kg

SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.235 W/kg



0 dB = 0.235 W/kg = -6.29 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 2.4G 802.11b 1CH Right side 10mm Ant8

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2412 MHz;Duty Cycle: 1:1.01

Medium: HSL2450;Medium parameters used: $f = 2412$ MHz; $\sigma = 1.763$ S/m; $\epsilon_r = 41.231$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.491 W/kg

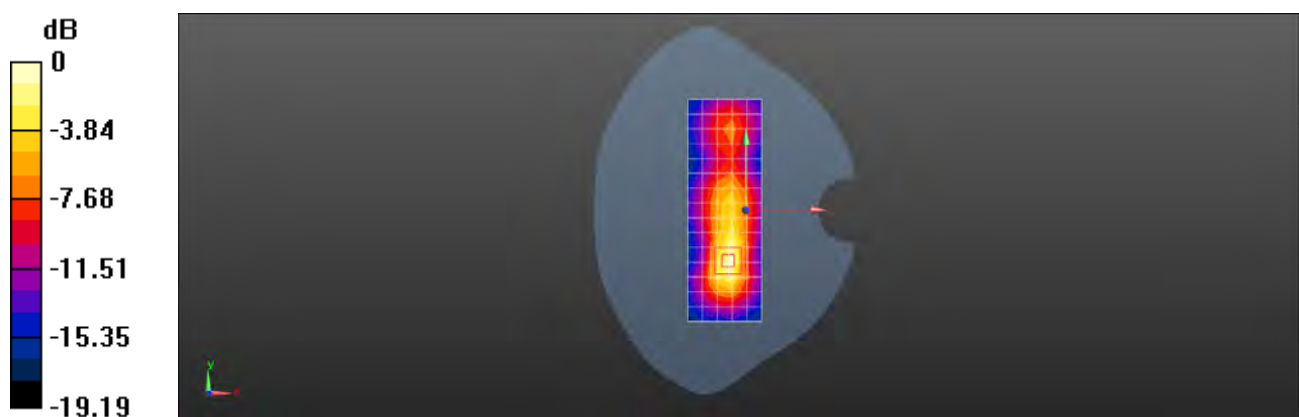
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.526 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.677 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.544 W/kg



0 dB = 0.544 W/kg = -2.64 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 2.4G 802.11b 6CH Left cheek MIMO

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.015

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 41.106$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.496 W/kg

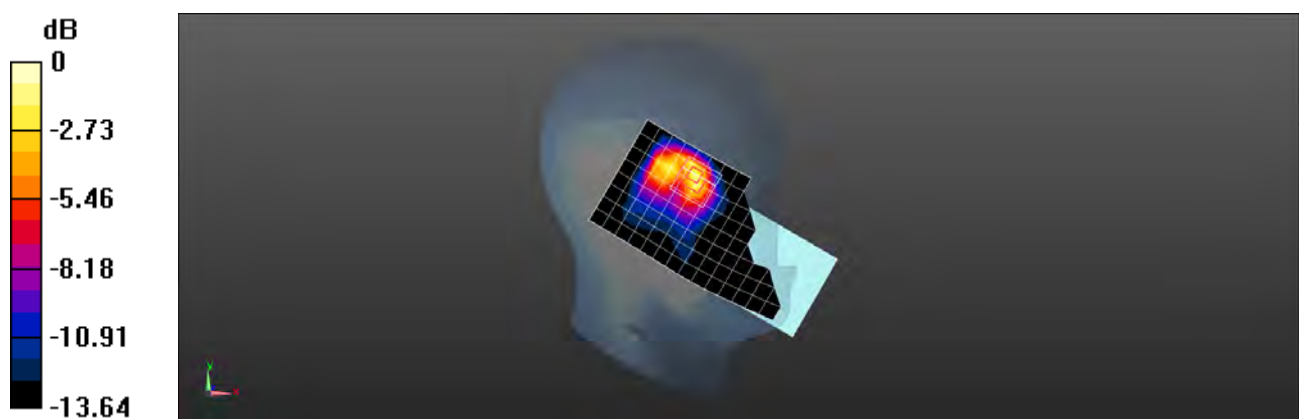
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.855 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.814 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.602 W/kg



0 dB = 0.602 W/kg = -2.20 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 2.4G 802.11b 6CH Back side 15mm MIMO

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.015

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 41.106$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.314 W/kg

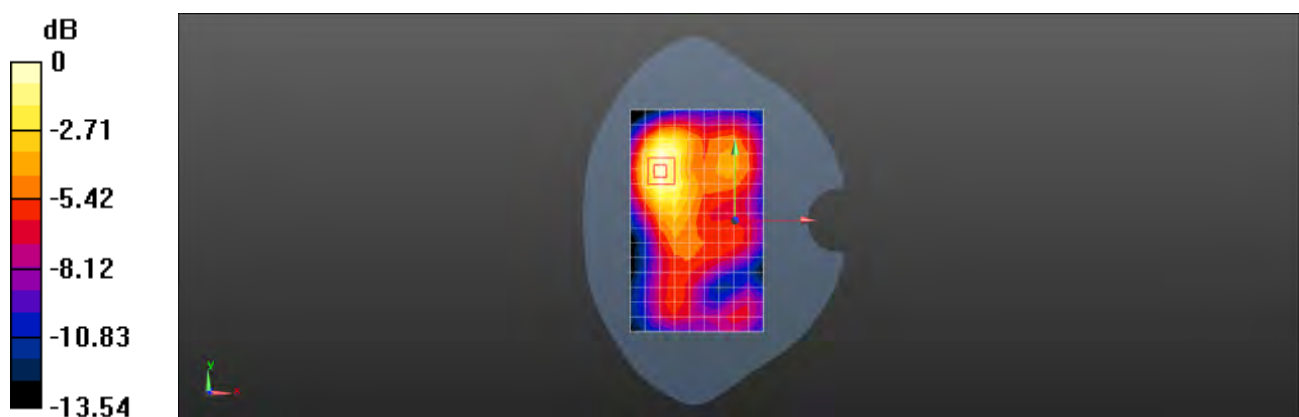
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.703 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.316 W/kg



0 dB = 0.316 W/kg = -5.00 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 2.4G 802.11b 6CH Right side 10mm MIMO

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.015

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 41.106$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.14 W/kg

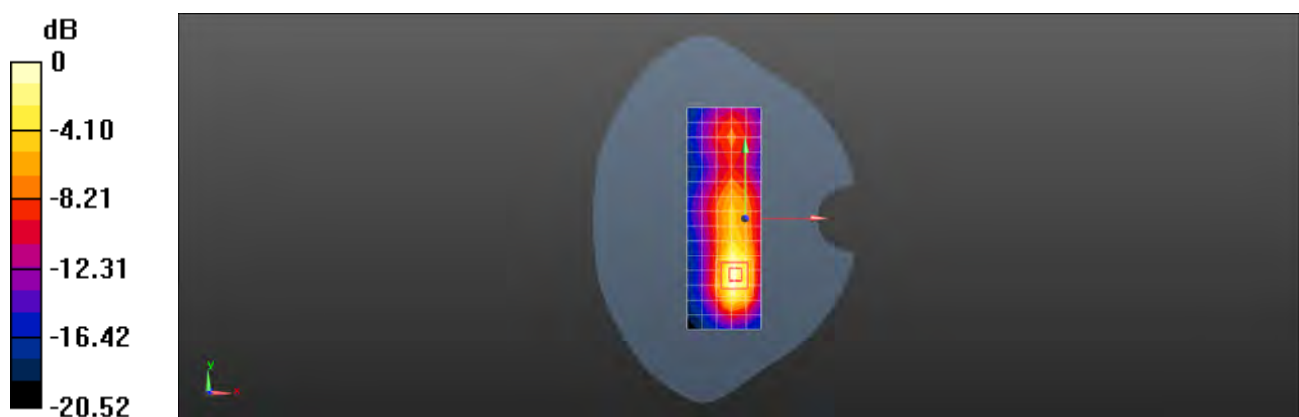
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.35 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.338 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 52CH Left cheek Ant7

DUT: M2002J9G; Type: Mobile phone; Serial: 14bdaef7

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5260 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5260$ MHz; $\sigma = 4.662$ S/m; $\epsilon_r = 35.644$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (10x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.23 W/kg

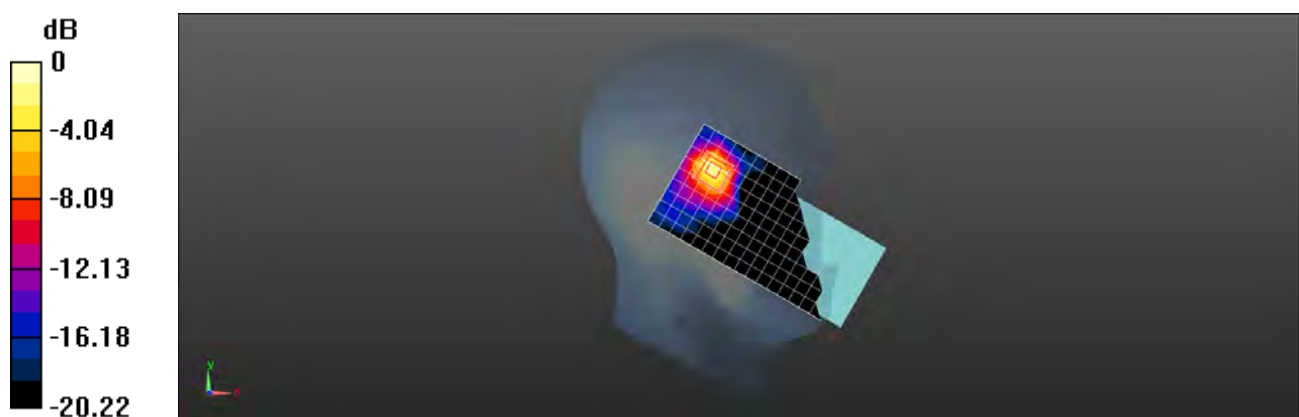
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.024 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.220 W/kg

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 120CH Back side 15mm Ant7

DUT: M2002J9G; Type: Mobile phone; Serial: 14bdaef7

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5600 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5600$ MHz; $\sigma = 5.037$ S/m; $\epsilon_r = 34.801$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.28 W/kg

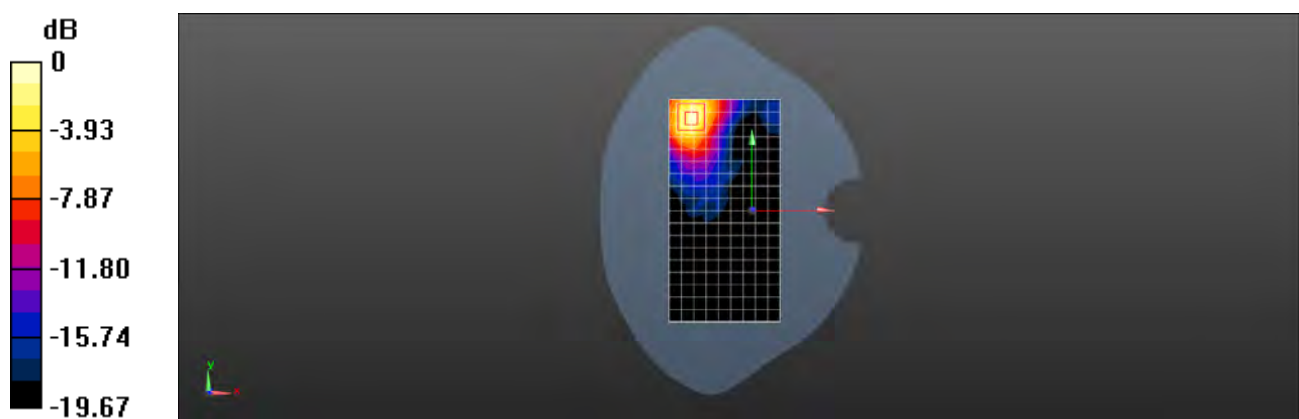
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.013 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.29 W/kg

SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.235 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 157CH Back side 10mm Ant7

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5785 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5785$ MHz; $\sigma = 5.243$ S/m; $\epsilon_r = 34.465$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.83, 4.83, 4.83); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.18 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.169 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 0.913 W/kg; SAR(10 g) = 0.296 W/kg

Maximum value of SAR (measured) = 2.25 W/kg



0 dB = 2.25 W/kg = 3.52 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 120CH Back side 0mm Ant7

DUT: M2002J9G; Type: Mobile phone; Serial: 14bdaef7

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5600 MHz;Duty Cycle: 1:1.034

Medium: HSL5G;Medium parameters used: $f = 5600$ MHz; $\sigma = 5.037$ S/m; $\epsilon_r = 34.801$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 13.0 W/kg

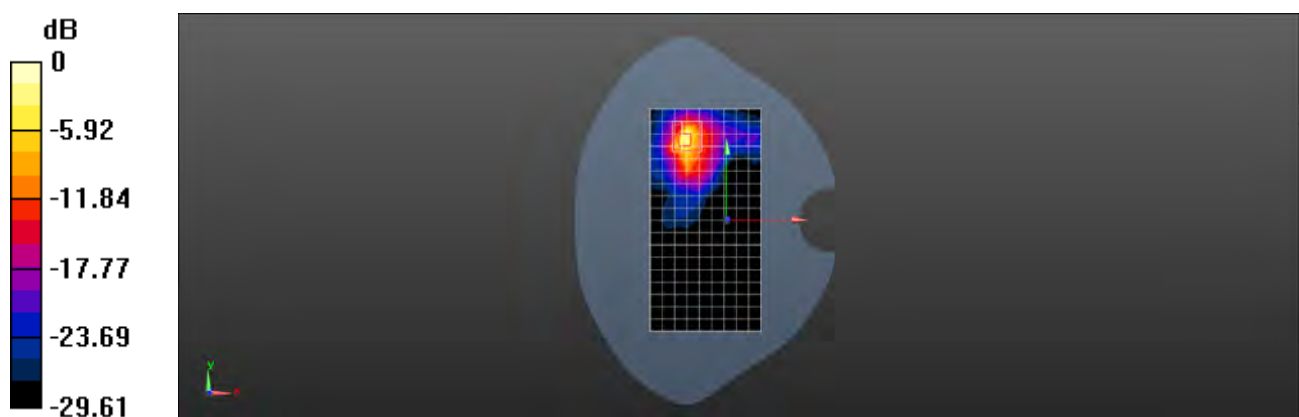
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.182 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 37.6 W/kg

SAR(1 g) = 6.13 W/kg; SAR(10 g) = 1.24 W/kg

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 52CH Left cheek MIMO

DUT: M2002J9G; Type: Mobile phone; Serial: 14bdaef7

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5260 MHz;Duty Cycle: 1:1.025

Medium: HSL5G;Medium parameters used: $f = 5260$ MHz; $\sigma = 4.662$ S/m; $\epsilon_r = 35.644$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (10x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.36 W/kg

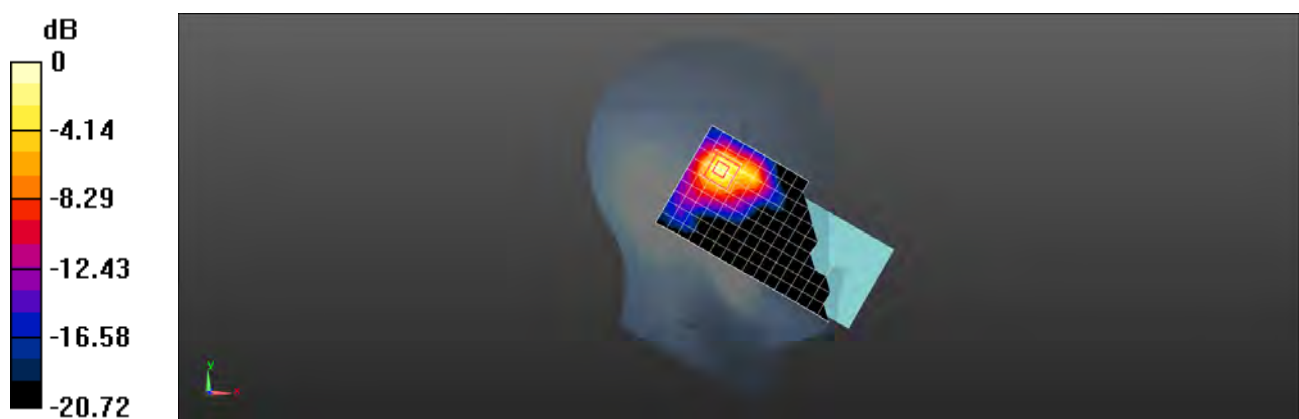
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.741 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 0.922 W/kg; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (measured) = 2.17 W/kg



0 dB = 2.17 W/kg = 3.36 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 52CH Back side 15mm MIMO

DUT: M2002J9G; Type: Mobile phone; Serial: 14bdaef7

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5260 MHz;Duty Cycle: 1:1.025

Medium: HSL5G;Medium parameters used: $f = 5260$ MHz; $\sigma = 4.662$ S/m; $\epsilon_r = 35.644$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.13 W/kg

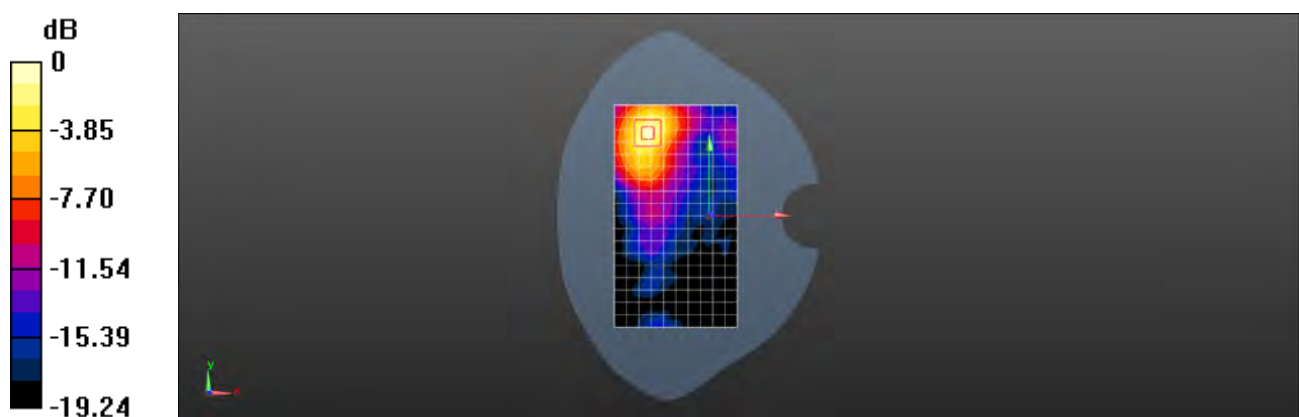
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.406 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.228 W/kg

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



0 dB = 1.22 W/kg = 0.86 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 157CH Back side 10mm MIMO

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5785 MHz;Duty Cycle: 1:1.025

Medium: HSL5G;Medium parameters used: $f = 5785$ MHz; $\sigma = 5.243$ S/m; $\epsilon_r = 34.465$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.83, 4.83, 4.83); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.14 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.909 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.71 W/kg

SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 2.23 W/kg



0 dB = 2.23 W/kg = 3.48 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G WIFI 5G 802.11a 120CH Right side 0mm MIMO

DUT: M2002J9G; Type: Mobile phone; Serial: 14bdaef7

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5600 MHz;Duty Cycle: 1:1.025

Medium: HSL5G;Medium parameters used: $f = 5600$ MHz; $\sigma = 5.037$ S/m; $\epsilon_r = 34.801$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 22.1 W/kg

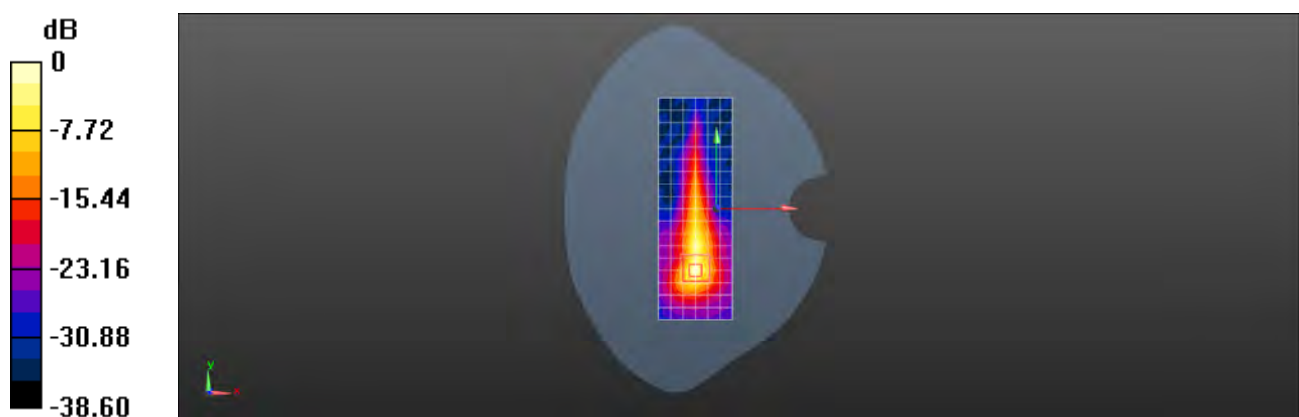
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 16.06 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 39.7 W/kg

SAR(1 g) = 7.51 W/kg; SAR(10 g) = 1.86 W/kg

Maximum value of SAR (measured) = 21.8 W/kg



0 dB = 21.8 W/kg = 13.38 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G Bluetooth DH5 39CH Left cheek Ant8

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium: HSL2450; Medium parameters used: $f = 2441$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 41.101$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.232 W/kg

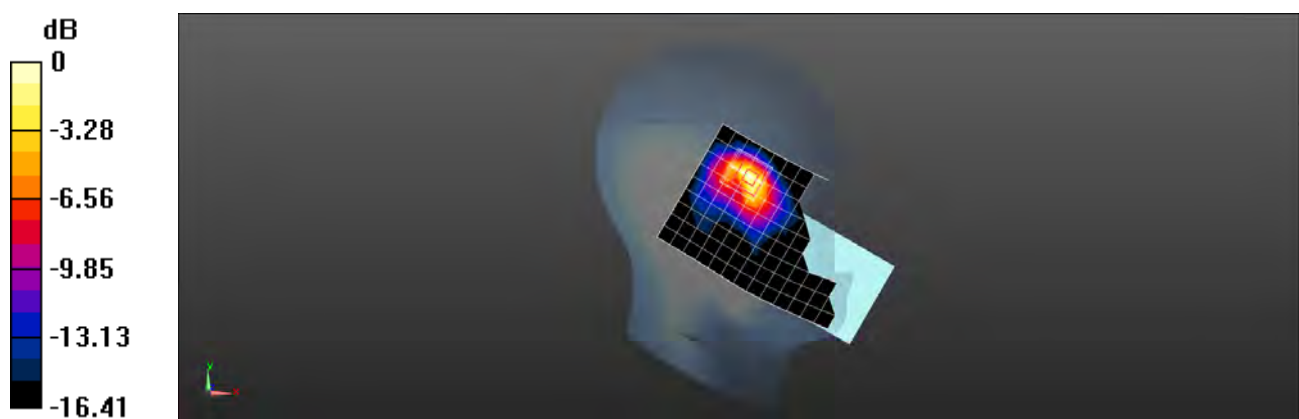
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.083 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.245 W/kg



0 dB = 0.245 W/kg = -6.11 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G Bluetooth DH5 39CH Back side 15mm Ant8

DUT: M2002J9G; Type: Mobile phone; Serial: 2f6de63b

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium: HSL2450; Medium parameters used: $f = 2441$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 41.101$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0181 W/kg

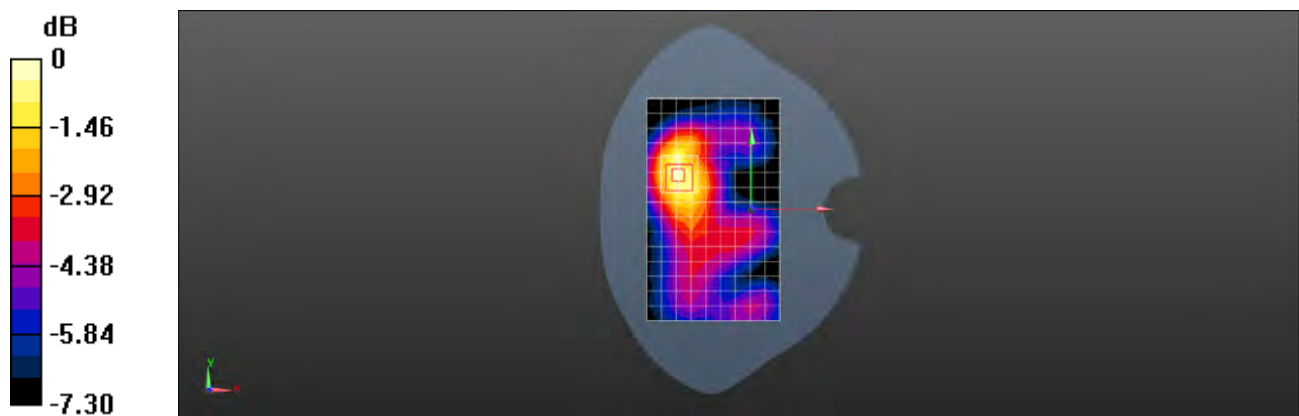
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.564 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0220 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00963 W/kg

Maximum value of SAR (measured) = 0.0189 W/kg



0 dB = 0.0189 W/kg = -17.24 dBW/kg

Test Laboratory: SGS-SAR Lab

M2002J9G Bluetooth DH5 39CH Right side 10mm Ant8

DUT: M2002J9G; Type: Mobile phone; Serial: 696cd899

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.301

Medium: HSL2450; Medium parameters used: $f = 2441$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 41.101$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2019-12-17
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0801 W/kg

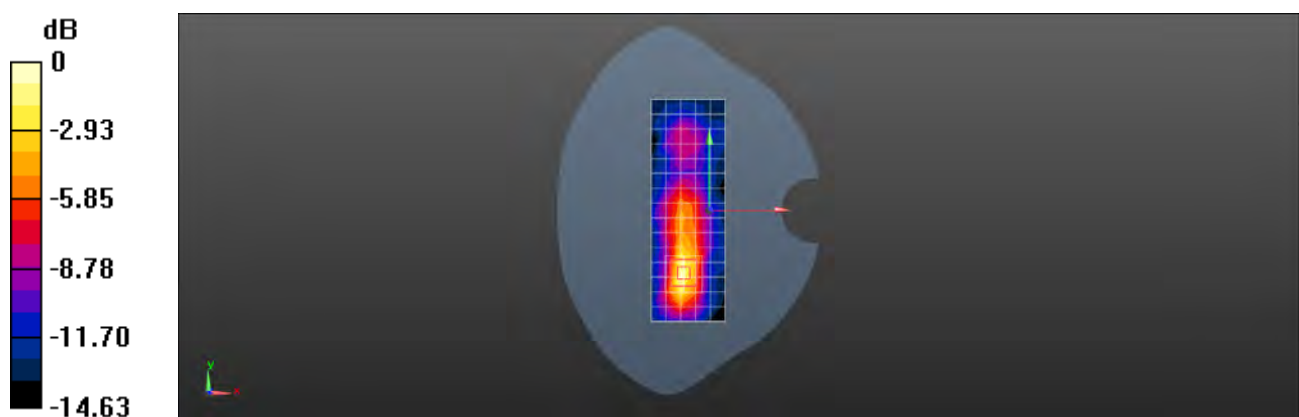
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.663 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0900 W/kg



0 dB = 0.0900 W/kg = -10.46 dBW/kg



Appendix C

Calibration certificate

1. Dipole
D835V2-SN 4d105(2019-12-17)
D1750V2-SN 1149(2019-05-21)
D1900V2-SN 5d028(2019-12-17)
D2450V2-SN 733(2019-12-17)
D2600V2-SN 1125(2019-05-20)
D5GHzV2-SN 1165(2019-12-20)
2. DAE
DAE4-SN 1267(2019-10-22)
DAE4-SN 1428(2020-03-03)
3. Probe
EX3DV4-SN 3982(2019-09-11)
EX3DV4-SN 3923 (2019-10-22)



In Collaboration with
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CALIBRATION LABORATORY



中国认可
国际互认
校准
CALIBRATION
CNAS L0570

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

Client **SGS**

Certificate No: **Z19-60472**

CALIBRATION CERTIFICATE

Object: **D835V2 - SN: 4d105**

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

Calibration date: **December 17, 2019**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	11-Apr-19 (CTTL, No.J19X02605)	Apr-20
Power sensor NRP6A	101369	11-Apr-19 (CTTL, No.J19X02605)	Apr-20
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1555	22-Aug-19(CTTL-SPEAG,No.Z19-60295)	Aug-20
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

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

Issued: December 23, 2019

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



Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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



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Measurement Conditions

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

DASY Version	DASY52	V52.10.3
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	41.4 \pm 6 %	0.88 mho/m \pm 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.64 W/kg \pm 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.29 W/kg \pm 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.5Ω- 4.96jΩ
Return Loss	- 26.0dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.261 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 12.17.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d105

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(9.75, 9.75, 9.75) @ 835 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Reference Value = 58.62 V/m; Power Drift = -0.04 dB

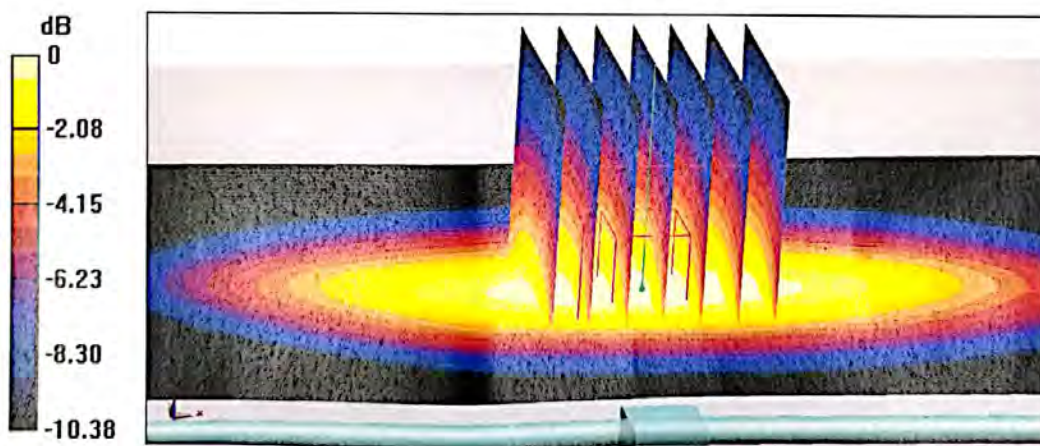
Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.55 W/kg

Smallest distance from peaks to all points 3 dB below = 19.8 mm

Ratio of SAR at M2 to SAR at M1 = 66.2%

Maximum value of SAR (measured) = 3.18 W/kg

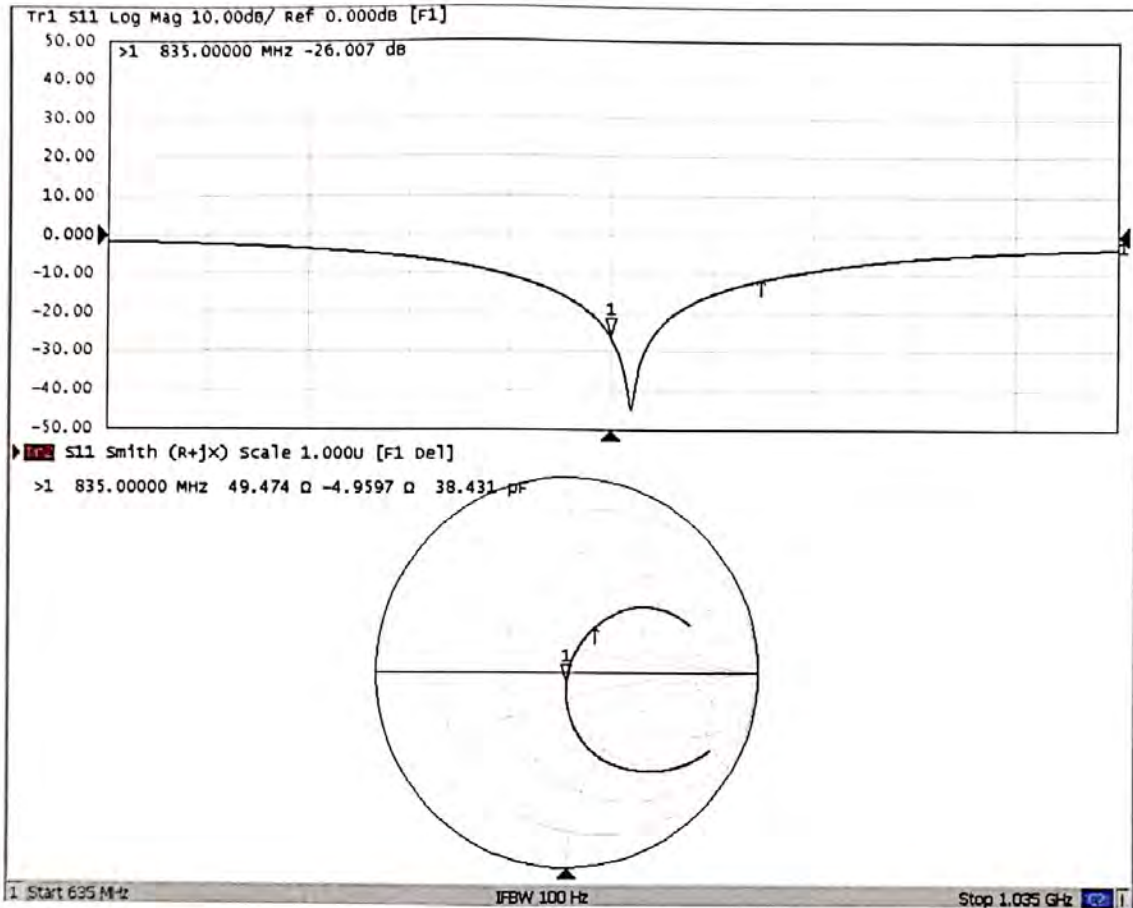


0 dB = 3.18 W/kg = 5.02 dBW/kg



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Impedance Measurement Plot for Head TSL





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Client **SGS**

Certificate No: **Z19-60153**

CALIBRATION CERTIFICATE

Object **D1750V2 - SN: 1149**

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

Calibration date: **May 21, 2019**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Power sensor NRP8S	104291	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1331	06-Feb-19(SPEAG,No.DAE4-1331_Feb19)	Feb-20
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

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

Issued: May 25, 2019

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



Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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



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Measurement Conditions

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

DASY Version	DASY52	52.10.2.1495
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.8 ± 6 %	1.38 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.3 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	4.81 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.2 W/kg ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.2 ± 6 %	1.48 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	---	---

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.34 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.6 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	4.90 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	19.7 W/kg ± 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.6Ω+ 0.70 jΩ
Return Loss	- 31.8 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	44.9Ω+ 0.29 jΩ
Return Loss	- 25.3 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.082 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 05.21.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1149

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 39.84$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(8.38, 8.38, 8.38) @ 1750 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

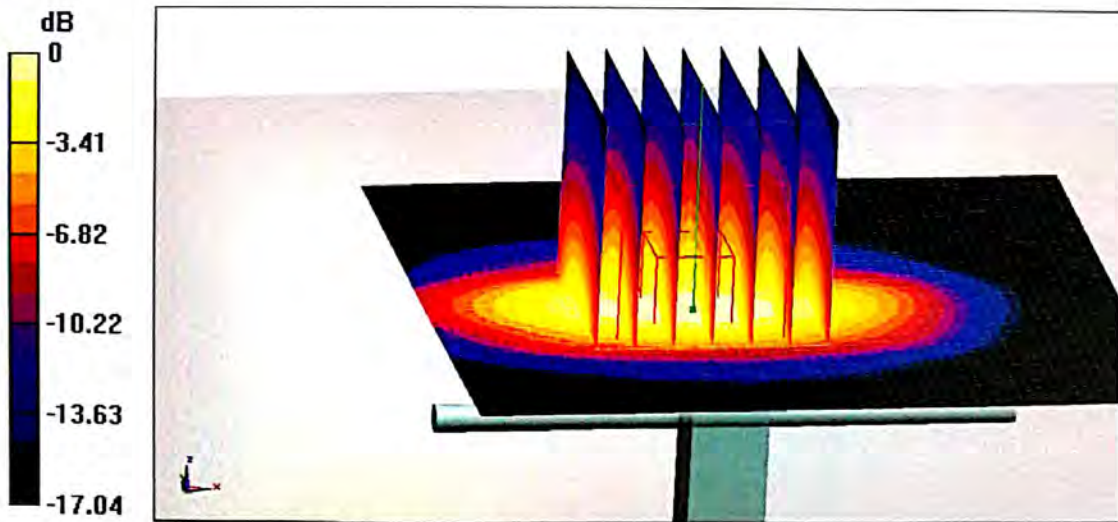
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 88.07 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.12 W/kg; SAR(10 g) = 4.81 W/kg

Maximum value of SAR (measured) = 14.2 W/kg

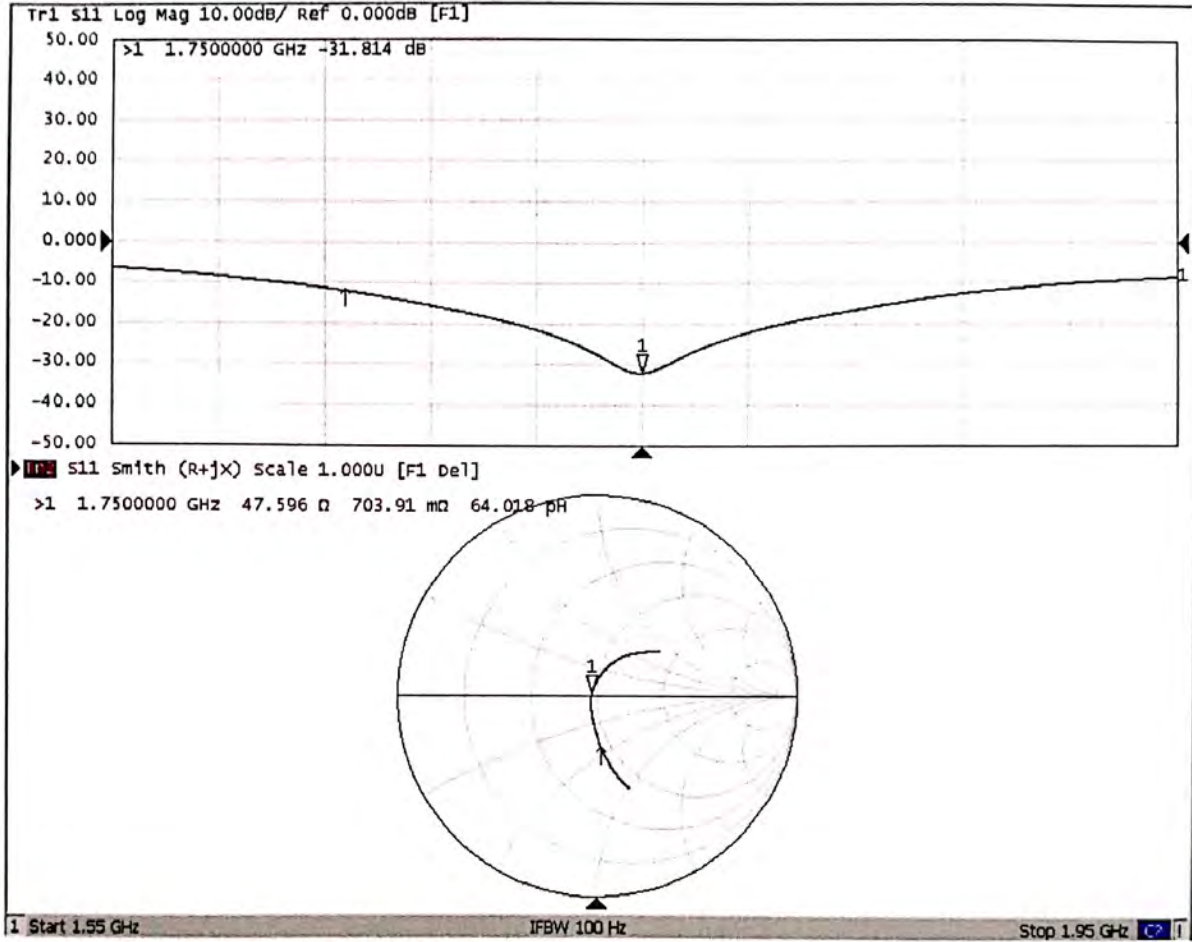


0 dB = 14.2 W/kg = 11.52 dBW/kg



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Impedance Measurement Plot for Head TSL





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DASY5 Validation Report for Body TSL

Date: 05.21.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1149

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.482$ S/m; $\epsilon_r = 54.22$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(8.03, 8.03, 8.03) @ 1750 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

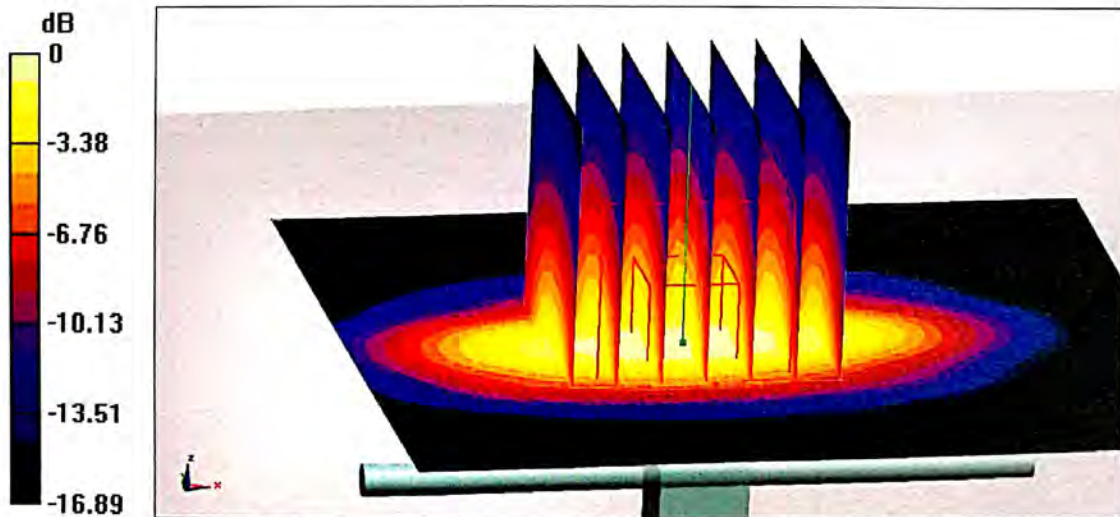
$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 93.60 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.9 W/kg

Maximum value of SAR (measured) = 14.6 W/kg

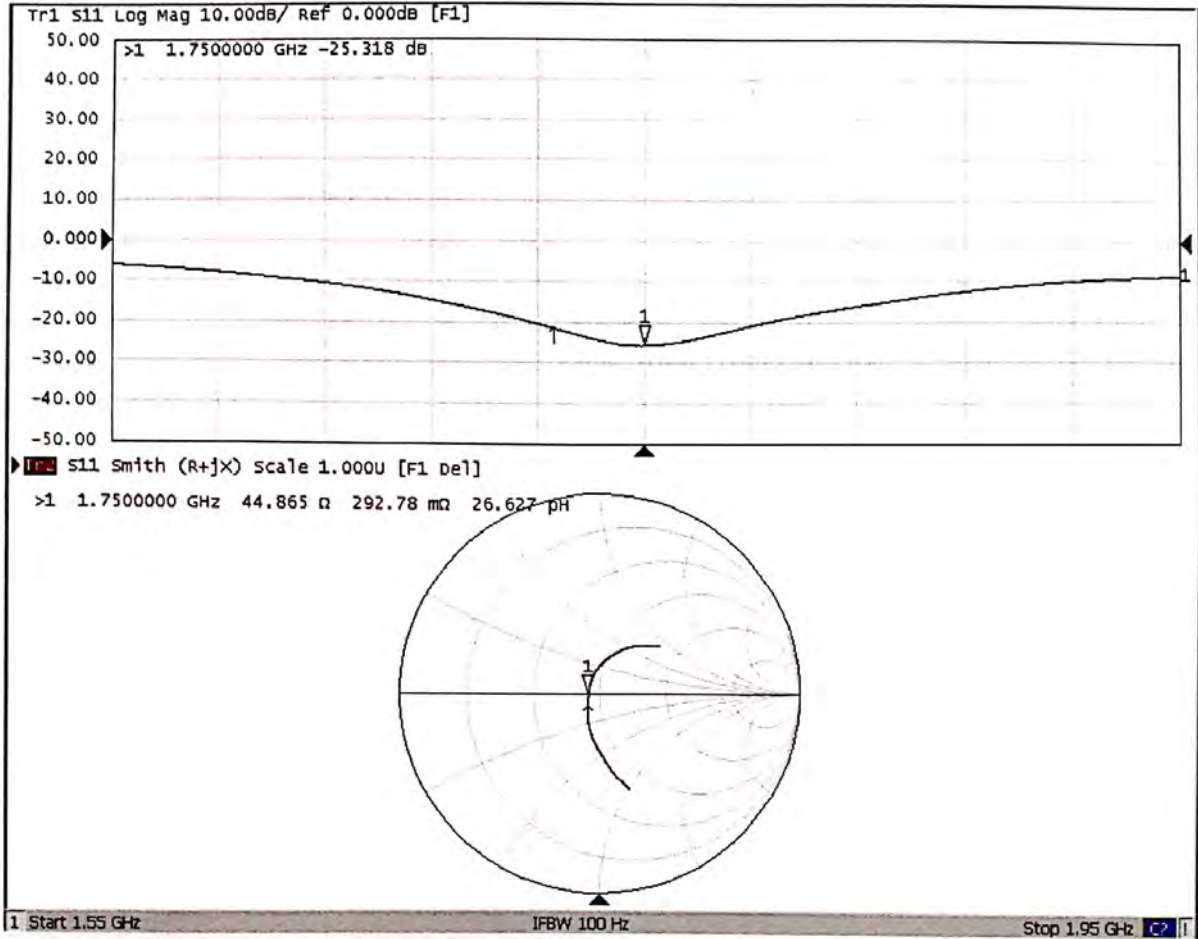


0 dB = 14.6 W/kg = 11.64 dBW/kg



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Impedance Measurement Plot for Body TSL





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Client **SGS**

Certificate No: **Z19-60473**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN: 5d028**

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

Calibration date: **December 17, 2019**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	11-Apr-19 (CTTL, No.J19X02605)	Apr-20
Power sensor NRP6A	101369	11-Apr-19 (CTTL, No.J19X02605)	Apr-20
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1555	22-Aug-19(CTTL-SPEAG,No.Z19-60295)	Aug-20
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

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

Issued: December 23, 2019

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Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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



Measurement Conditions

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

DASY Version	DASY52	V52.10.3
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	40.5 \pm 6 %	1.39 mho/m \pm 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.3 W/kg \pm 18.8 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.02 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	20.2 W/kg \pm 18.7 % (k=2)



Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.2Ω+ 7.80jΩ
Return Loss	- 22.2dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.064 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

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DASY5 Validation Report for Head TSL

Date: 12.17.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d028

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(8.14, 8.14, 8.14) @ 1900 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 97.62 V/m; Power Drift = 0.02 dB

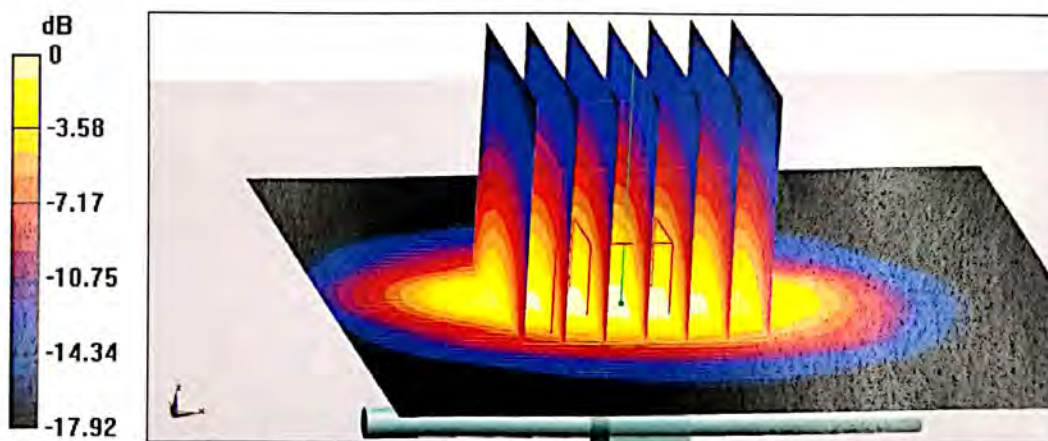
Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.02 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 15.5 W/kg



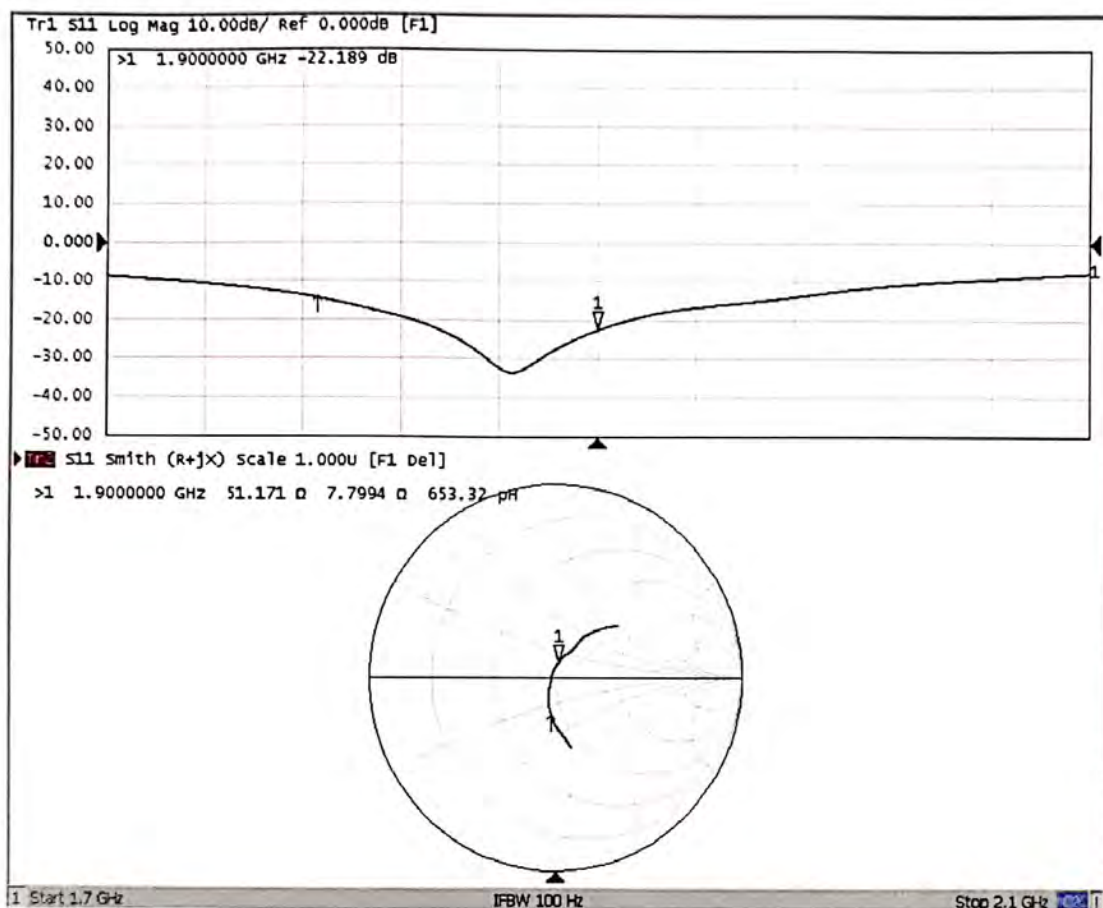
0 dB = 15.5 W/kg = 11.90 dBW/kg



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Impedance Measurement Plot for Head TSL





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Client

SGS

Certificate No: Z19-60474

CALIBRATION CERTIFICATE

Object: D2450V2 - SN: 733

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

Calibration date: December 17, 2019

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	11-Apr-19 (CTTL, No.J19X02605)	Apr-20
Power sensor NRP6A	101369	11-Apr-19 (CTTL, No.J19X02605)	Apr-20
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1555	22-Aug-19(CTTL-SPEAG,No.Z19-60295)	Aug-20
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

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

Issued: December 23, 2019

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



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Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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



Measurement Conditions

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

DASY Version	DASY52	V52.10.3
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	39.0 \pm 6 %	1.77 mho/m \pm 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.9 W/kg \pm 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.92 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.8 W/kg \pm 18.7 % (k=2)



Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.2Ω+ 3.88 jΩ
Return Loss	- 27.2dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.018 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 12.17.2019

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 733

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.772$ S/m; $\epsilon_r = 39.01$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.62, 7.62, 7.62) @ 2450 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Reference Value = 100.5 V/m; Power Drift = -0.07 dB

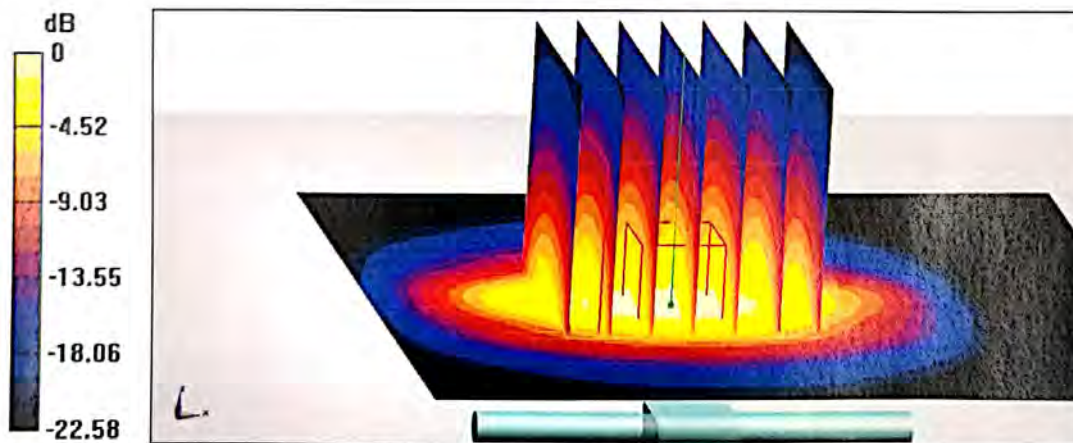
Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.92 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 21.8 W/kg

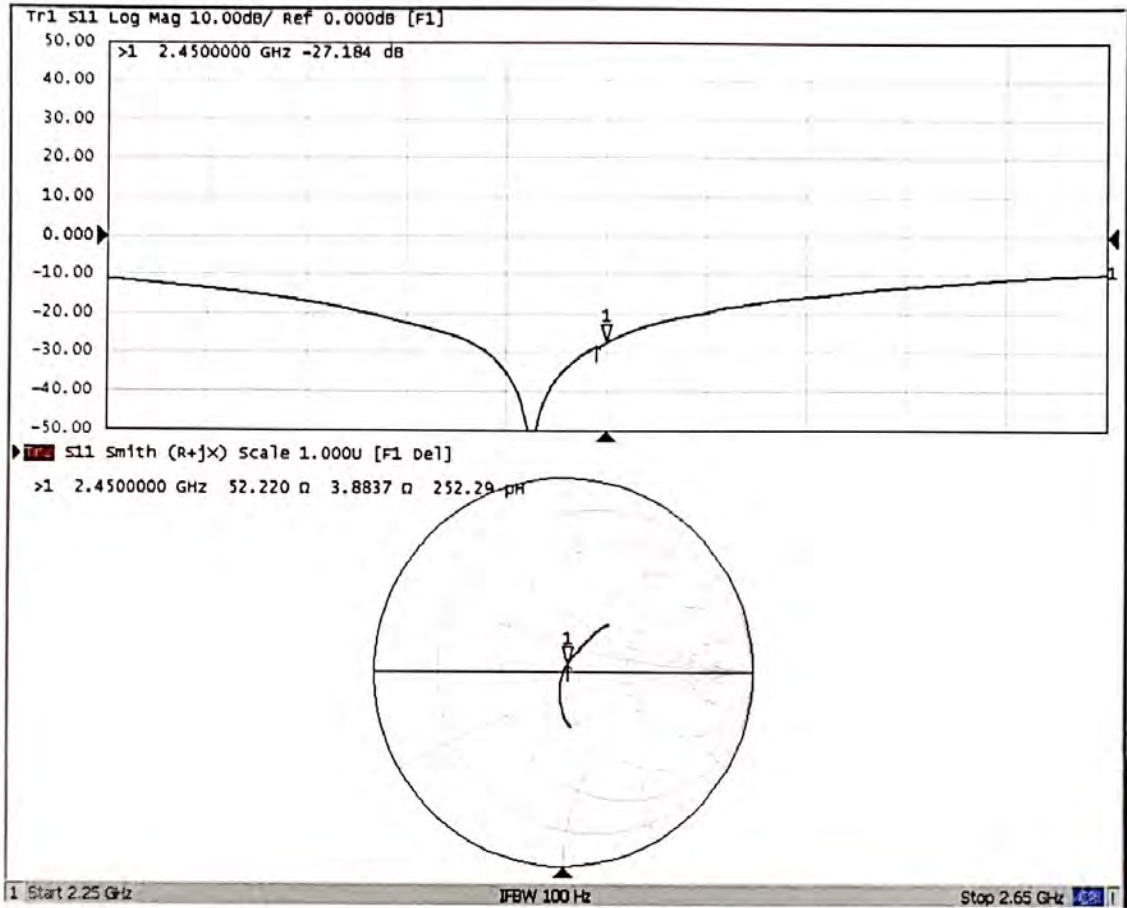


0 dB = 21.8 W/kg = 13.38 dBW/kg



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Impedance Measurement Plot for Head TSL





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Client **SGS**

Certificate No: **Z19-60155**

CALIBRATION CERTIFICATE

Object **D2600V2 - SN: 1125**

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

Calibration date: **May 20, 2019**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Power sensor NRP8S	104291	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1331	06-Feb-19(SPEAG,No.DAE4-1331_Feb19)	Feb-20
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
Network Analyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

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

Issued: May 25, 2019

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



Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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



Measurement Conditions

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

DASY Version	DASY52	52.10.2.1495
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.6 ± 6 %	1.95 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	56.8 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.9 W/kg ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.9 ± 6 %	2.17 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	54.0 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	5.90 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.6 W/kg ± 18.7 % (k=2)



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Appendix(Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.9Ω- 5.00jΩ
Return Loss	- 25.7dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.4Ω- 4.25jΩ
Return Loss	- 24.8dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.020 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

Additional EUT Data

Manufactured by	SPEAG
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