



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Antenna	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 41	QPSK20M	Top Side	1.5	41490	50	25	Full	Ant4	1	62.9	24.50	23.08	0.03	0.296	1.006	1.387	0.41
	LTE 41	QPSK20M	Rear Face	1.5	39750	100	0	Full	Ant4	1	62.9	24.50	23.43	-0.05	0.366	1.006	1.279	0.47
	LTE 41	QPSK20M	Top Side	1.5	39750	100	0	Full	Ant4	1	62.9	24.50	23.43	0.11	0.514	1.006	1.279	0.66
	LTE 41	QPSK20M	Top Side	1	39750	50	25	Reduce	Ant4	2	62.9	23.50	22.20	0.03	0.720	1.006	1.349	0.98
	LTE 66	QPSK20M	Front Face	1	132322	1	50	Full	Ant0	1	-	25.50	24.46	0.11	0.524	1.000	1.271	0.67
	LTE 66	QPSK20M	Rear Face	1	132322	1	50	Reduce	Ant0	1	-	21.50	20.17	0.04	0.461	1.000	1.358	0.63
	LTE 66	QPSK20M	Left Side	1	132322	1	50	Full	Ant0	1	-	25.50	24.46	0.00	0.139	1.000	1.271	0.18
	LTE 66	QPSK20M	Right Side	1	132322	1	50	Full	Ant0	1	-	25.50	24.46	0.05	0.159	1.000	1.271	0.20
	LTE 66	QPSK20M	Bottom Side	1	132322	1	50	Reduce	Ant0	1	-	21.50	20.17	0.14	0.671	1.000	1.358	0.91
	LTE 66	QPSK20M	Front Face	1	132322	50	25	Full	Ant0	1	-	24.50	23.47	-0.05	0.424	1.000	1.268	0.54
	LTE 66	QPSK20M	Rear Face	1	132322	50	25	Reduce	Ant0	1	-	21.50	19.96	-0.01	0.455	1.000	1.426	0.65
	LTE 66	QPSK20M	Left Side	1	132322	50	25	Full	Ant0	1	-	24.50	23.47	-0.01	0.102	1.000	1.268	0.13
	LTE 66	QPSK20M	Right Side	1	132322	50	25	Full	Ant0	1	-	24.50	23.47	0.03	0.108	1.000	1.268	0.14
	LTE 66	QPSK20M	Bottom Side	1	132322	50	25	Reduce	Ant0	1	-	21.50	19.96	0.15	0.671	1.000	1.426	0.96
	LTE 66	QPSK20M	Bottom Side	1	132072	1	50	Reduce	Ant0	1	-	21.50	20.16	-0.10	0.643	1.000	1.361	0.88
	LTE 66	QPSK20M	Bottom Side	1	132572	1	50	Reduce	Ant0	1	-	21.50	20.14	0.18	0.651	1.000	1.368	0.89
	LTE 66	QPSK20M	Bottom Side	1	132072	50	25	Reduce	Ant0	1	-	21.50	19.92	-0.06	0.645	1.000	1.439	0.93
	LTE 66	QPSK20M	Bottom Side	1	132572	50	25	Reduce	Ant0	1	-	21.50	19.87	0.07	0.650	1.000	1.455	0.95
P49	LTE 66	QPSK20M	Bottom Side	1	132322	100	0	Reduce	Ant0	1	-	21.50	19.88	0.15	0.672	1.000	1.452	0.98
	LTE 66	QPSK20M	Rear Face	1.5	132322	1	50	Full	Ant0	1	-	25.50	24.46	-0.03	0.606	1.000	1.271	0.77
	LTE 66	QPSK20M	Bottom Side	1.5	132322	1	50	Full	Ant0	1	-	25.50	24.46	-0.16	0.744	1.000	1.271	0.95
	LTE 66	QPSK20M	Rear Face	1.5	132322	50	25	Full	Ant0	1	-	24.50	23.47	0.04	0.479	1.000	1.268	0.61
	LTE 66	QPSK20M	Bottom Side	1.5	132322	50	25	Full	Ant0	1	-	24.50	23.47	0.00	0.592	1.000	1.268	0.75
	LTE 66	QPSK20M	Bottom Side	1.5	132072	1	50	Full	Ant0	1	-	25.50	24.45	-0.12	0.683	1.000	1.274	0.87
	LTE 66	QPSK20M	Bottom Side	1.5	132572	1	50	Full	Ant0	1	-	25.50	24.40	0.05	0.688	1.000	1.288	0.89
	LTE 66	QPSK20M	Bottom Side	1.5	132072	100	0	Full	Ant0	1	-	24.50	23.46	0.17	0.588	1.000	1.271	0.75
	LTE 66	QPSK20M	Bottom Side	1	132322	100	0	Reduce	Ant0	2	-	21.50	19.88	0.06	0.621	1.000	1.452	0.90
	LTE 66	QPSK20M	Front Face	1	132322	1	50	Full	Ant4	1	-	25.50	24.42	-0.11	0.363	1.000	1.282	0.47
	LTE 66	QPSK20M	Rear Face	1	132322	1	50	Full	Ant4	1	-	25.50	24.42	0.07	0.513	1.000	1.282	0.66
	LTE 66	QPSK20M	Left Side	1	132322	1	50	Full	Ant4	1	-	25.50	24.42	-0.15	0.230	1.000	1.282	0.29
	LTE 66	QPSK20M	Top Side	1	132322	1	50	Full	Ant4	1	-	25.50	24.42	0.08	0.545	1.000	1.282	0.70
	LTE 66	QPSK20M	Front Face	1	132322	50	25	Full	Ant4	1	-	24.50	23.41	-0.10	0.278	1.000	1.285	0.36
	LTE 66	QPSK20M	Rear Face	1	132322	50	25	Full	Ant4	1	-	24.50	23.41	0.07	0.398	1.000	1.285	0.51
	LTE 66	QPSK20M	Left Side	1	132322	50	25	Full	Ant4	1	-	24.50	23.41	0.05	0.178	1.000	1.285	0.23
	LTE 66	QPSK20M	Top Side	1	132322	50	25	Full	Ant4	1	-	24.50	23.41	-0.11	0.449	1.000	1.285	0.58
	WLAN2.4G	802.11b	Front Face	1	6	-	-	Full	Ant6	1	100	21.00	19.28	-0.15	0.194	1.000	1.486	0.29
P50	WLAN2.4G	802.11b	Rear Face	1	6	-	-	Full	Ant6	1	100	21.00	19.28	-0.03	0.291	1.000	1.486	0.43
	WLAN2.4G	802.11b	Right Side	1	6	-	-	Full	Ant6	1	100	21.00	19.28	-0.19	0.171	1.000	1.486	0.25
	WLAN2.4G	802.11b	Top Side	1	6	-	-	Full	Ant6	1	100	21.00	19.28	0.13	0.164	1.000	1.486	0.24
	WLAN2.4G	802.11b	Rear Face	1	6	-	-	Full	Ant6	2	100	21.00	19.28	-0.14	0.262	1.000	1.486	0.39
	WLAN5G	802.11a	Front Face	1	48	-	-	Reduce	Ant6	1	96.53	17.00	15.13	-0.11	0.177	1.036	1.538	0.28
P51	WLAN5G	802.11a	Rear Face	1	48	-	-	Reduce	Ant6	1	96.53	17.00	15.13	0.04	0.324	1.036	1.538	0.52
	WLAN5G	802.11a	Right Side	1	48	-	-	Reduce	Ant6	1	96.53	17.00	15.13	0.08	0.119	1.036	1.538	0.19
	WLAN5G	802.11a	Top Side	1	48	-	-	Reduce	Ant6	1	96.53	17.00	15.13	0.15	0.279	1.036	1.538	0.44
	WLAN5G	802.11a	Rear Face	1	48	-	-	Reduce	Ant6	2	96.53	17.00	15.13	0.03	0.306	1.036	1.538	0.49
	WLAN5G	802.11a	Front Face	1	157	-	-	Full	Ant6	1	96.53	19.00	17.16	-0.11	0.156	1.036	1.528	0.25
P52	WLAN5G	802.11a	Rear Face	1	157	-	-	Full	Ant6	1	96.53	19.00	17.16	0.09	0.322	1.036	1.528	0.51
	WLAN5G	802.11a	Right Side	1	157	-	-	Full	Ant6	1	96.53	19.00	17.16	0.08	0.147	1.036	1.528	0.23
	WLAN5G	802.11a	Top Side	1	157	-	-	Full	Ant6	1	96.53	19.00	17.16	0.01	0.267	1.036	1.528	0.42
	WLAN5G	802.11a	Rear Face	1	157	-	-	Full	Ant6	2	96.53	19.00	17.16	-0.05	0.320	1.036	1.528	0.51
	BT	GFSK	Front Face	1	78	-	-	Full	Ant6	1	77.1	11.50	9.89	0.02	0.021	1.301	1.449	0.04
P53	BT	GFSK	Rear Face	1	78	-	-	Full	Ant6	1	77.1	11.50	9.89	0.16	0.028	1.301	1.449	0.05
	BT	GFSK	Right Side	1	78	-	-	Full	Ant6	1	77.1	11.50	9.89	0.05	0.019	1.301	1.449	0.04
	BT	GFSK	Top Side	1	78	-	-	Full	Ant6	1	77.1	11.50	9.89	0.05	0.017	1.301	1.449	0.03
	BT	GFSK	Rear Face	1	78	-	-	Full	Ant6	2	77.1	11.50	9.89	0.04	0.027	1.301	1.449	0.05

4.6.5 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Antenna	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
	WCDMA II	RMC12.2K	Rear Face	0	9262	-	-	Reduce	Ant0	1	-	23.50	22.16	-0.01	1.750	1.000	1.361	2.38
P54	WCDMA II	RMC12.2K	Bottom Side	0	9262	-	-	Reduce	Ant0	1	-	23.50	22.16	0.19	1.880	1.000	1.361	2.56
	WCDMA II	RMC12.2K	Rear Face	0	9400	-	-	Reduce	Ant0	1	-	23.50	22.15	0.02	1.840	1.000	1.365	2.51
	WCDMA II	RMC12.2K	Rear Face	0	9538	-	-	Reduce	Ant0	1	-	23.50	22.12	0.01	1.810	1.000	1.374	2.49
	WCDMA II	RMC12.2K	Bottom Side	0	9400	-	-	Reduce	Ant0	1	-	23.50	22.15	-0.03	1.860	1.000	1.365	2.54
	WCDMA II	RMC12.2K	Bottom Side	0	9538	-	-	Reduce	Ant0	1	-	23.50	22.12	-0.04	1.850	1.000	1.374	2.54
	WCDMA II	RMC12.2K	Bottom Side	0	9262	-	-	Reduce	Ant0	2	-	23.50	22.16	0.00	1.860	1.000	1.361	2.53
	WCDMA II	RMC12.2K	Rear Face	0	9538	-	-	Reduce	Ant4	1	-	24.00	22.72	-0.05	1.310	1.000	1.343	1.76
	WCDMA II	RMC12.2K	Top Side	0	9538	-	-	Reduce	Ant4	1	-	24.00	22.72	0.00	1.670	1.000	1.343	2.24
	WCDMA II	RMC12.2K	Top Side	0	9262	-	-	Reduce	Ant4	1	-	24.00	22.65	0.12	1.630	1.000	1.365	2.22
	WCDMA II	RMC12.2K	Top Side	0	9400	-	-	Reduce	Ant4	1	-	24.00	22.70	0.00	1.430	1.000	1.349	1.93



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Antenna	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
	WCDMA IV	RMC12.2K	Rear Face	0	1312	-	-	Reduce	Ant0	1	-	21.50	20.17	0.07	1.360	1.000	1.358	1.85
	WCDMA IV	RMC12.2K	Bottom Side	0	1312	-	-	Reduce	Ant0	1	-	21.50	20.17	0.08	1.720	1.000	1.358	2.34
	WCDMA IV	RMC12.2K	Bottom Side	0	1413	-	-	Reduce	Ant0	1	-	21.50	20.03	0.04	1.700	1.000	1.403	2.38
P55	WCDMA IV	RMC12.2K	Bottom Side	0	1513	-	-	Reduce	Ant0	1	-	21.50	20.13	0.17	1.810	1.000	1.371	2.48
	WCDMA IV	RMC12.2K	Bottom Side	0	1513	-	-	Reduce	Ant0	2	-	21.50	20.13	0.08	1.780	1.000	1.371	2.44
	LTE 2	QPSK20M	Rear Face	0	19100	1	50	Reduce	Ant0	1	-	22.50	21.19	0.00	1.800	1.000	1.352	2.43
	LTE 2	QPSK20M	Bottom Side	0	19100	1	50	Reduce	Ant0	1	-	22.50	21.19	0.02	1.570	1.000	1.352	2.12
P56	LTE 2	QPSK20M	Rear Face	0	19100	50	0	Reduce	Ant0	1	-	22.50	21.04	0.13	1.780	1.000	1.400	2.49
	LTE 2	QPSK20M	Bottom Side	0	19100	50	0	Reduce	Ant0	1	-	22.50	21.04	0.00	1.580	1.000	1.400	2.21
	LTE 2	QPSK20M	Rear Face	0	18700	1	50	Reduce	Ant0	1	-	22.50	21.12	0.02	1.780	1.000	1.374	2.45
	LTE 2	QPSK20M	Rear Face	0	18900	1	50	Reduce	Ant0	1	-	22.50	21.16	0.07	1.750	1.000	1.361	2.38
	LTE 2	QPSK20M	Bottom Side	0	18700	1	50	Reduce	Ant0	1	-	22.50	21.12	0.08	1.600	1.000	1.374	2.20
	LTE 2	QPSK20M	Bottom Side	0	18900	1	50	Reduce	Ant0	1	-	22.50	21.16	0.07	1.580	1.000	1.361	2.15
	LTE 2	QPSK20M	Rear Face	0	18700	50	0	Reduce	Ant0	1	-	22.50	20.96	-0.01	1.730	1.000	1.426	2.47
	LTE 2	QPSK20M	Rear Face	0	18900	50	0	Reduce	Ant0	1	-	22.50	20.91	0.08	1.720	1.000	1.442	2.48
	LTE 2	QPSK20M	Bottom Side	0	18700	50	0	Reduce	Ant0	1	-	22.50	20.96	-0.18	1.580	1.000	1.426	2.25
	LTE 2	QPSK20M	Bottom Side	0	18900	50	0	Reduce	Ant0	1	-	22.50	20.91	0.02	1.550	1.000	1.442	2.24
	LTE 2	QPSK20M	Rear Face	0	19100	100	0	Reduce	Ant0	1	-	22.50	20.97	0.00	1.740	1.000	1.422	2.47
	LTE 2	QPSK20M	Bottom Side	0	19100	100	0	Reduce	Ant0	1	-	22.50	20.97	0.03	1.620	1.000	1.422	2.30
	LTE 2	QPSK20M	Rear Face	0	19100	50	0	Reduce	Ant0	2	-	22.50	21.04	0.19	1.520	1.000	1.400	2.13
	LTE 2	QPSK20M	Rear Face	0	19100	1	50	Reduce	Ant4	1	-	23.50	22.17	-0.05	1.300	1.000	1.358	1.77
	LTE 2	QPSK20M	Top Side	0	19100	1	50	Reduce	Ant4	1	-	23.50	22.17	0.02	1.720	1.000	1.358	2.34
	LTE 2	QPSK20M	Rear Face	0	19100	50	0	Reduce	Ant4	1	-	23.50	22.03	-0.04	1.320	1.000	1.403	1.85
	LTE 2	QPSK20M	Top Side	0	19100	50	0	Reduce	Ant4	1	-	23.50	22.03	-0.07	1.610	1.000	1.403	2.26
	LTE 2	QPSK20M	Top Side	0	18700	1	50	Reduce	Ant4	1	-	23.50	22.15	0.06	1.490	1.000	1.365	2.03
	LTE 2	QPSK20M	Top Side	0	18900	1	50	Reduce	Ant4	1	-	23.50	22.11	0.04	1.650	1.000	1.377	2.27
	LTE 2	QPSK20M	Top Side	0	18700	50	0	Reduce	Ant4	1	-	23.50	22.01	0.06	1.560	1.000	1.409	2.20
	LTE 2	QPSK20M	Top Side	0	18900	50	0	Reduce	Ant4	1	-	23.50	22.00	0.00	1.490	1.000	1.413	2.10
	LTE 2	QPSK20M	Top Side	0	19100	100	0	Reduce	Ant4	1	-	23.50	22.05	0.05	1.700	1.000	1.396	2.37
	LTE 7	QPSK20M	Rear Face	0	21350	1	50	Reduce	Ant0	1	-	21.50	20.23	-0.18	1.240	1.000	1.340	1.66
	LTE 7	QPSK20M	Bottom Side	0	21350	1	50	Reduce	Ant0	1	-	21.50	20.23	-0.06	1.050	1.000	1.340	1.41
P57	LTE 7	QPSK20M	Rear Face	0	21350	50	0	Reduce	Ant0	1	-	21.50	20.06	0.12	1.200	1.000	1.393	1.67
	LTE 7	QPSK20M	Bottom Side	0	21350	50	0	Reduce	Ant0	1	-	21.50	20.06	0.06	1.040	1.000	1.393	1.45
	LTE 7	QPSK20M	Rear Face	0	21350	50	0	Reduce	Ant0	2	-	21.50	20.06	0.02	1.150	1.000	1.393	1.60
	LTE 7	QPSK20M	Rear Face	0	20850	1	50	Reduce	Ant4	1	-	20.00	18.99	-0.05	0.955	1.000	1.262	1.21
	LTE 7	QPSK20M	Top Side	0	20850	1	50	Reduce	Ant4	1	-	20.00	18.99	0.02	1.250	1.000	1.262	1.58
	LTE 7	QPSK20M	Rear Face	0	20850	50	50	Reduce	Ant4	1	-	20.00	18.79	-0.04	0.951	1.000	1.321	1.26
	LTE 7	QPSK20M	Top Side	0	20850	50	50	Reduce	Ant4	1	-	20.00	18.79	-0.03	1.250	1.000	1.321	1.65
	LTE 38	QPSK20M	Top Side	0	37850	1	50	Reduce	Ant4	1	62.9	23.50	22.49	0.04	1.530	1.006	1.262	1.93
P58	LTE 38	QPSK20M	Top Side	0	37850	50	0	Reduce	Ant4	1	62.9	23.50	22.18	0.17	1.560	1.006	1.355	2.11
	LTE 38	QPSK20M	Top Side	0	38000	50	0	Reduce	Ant4	1	62.9	23.50	22.14	0.03	1.520	1.006	1.368	2.08
	LTE 38	QPSK20M	Top Side	0	38150	50	0	Reduce	Ant4	1	62.9	23.50	22.17	0.03	1.500	1.006	1.358	2.04
	LTE 38	QPSK20M	Top Side	0	37850	100	0	Reduce	Ant4	1	62.9	23.50	22.24	0.04	1.530	1.006	1.337	2.04
	LTE 38	QPSK20M	Top Side	0	37850	50	0	Reduce	Ant4	2	62.9	23.50	22.18	0.00	1.550	1.006	1.355	2.10
	LTE 41	QPSK20M	Top Side	0	39750	1	50	Reduce	Ant4	1	62.9	23.50	22.44	0.08	1.500	1.006	1.276	1.91
P59	LTE 41	QPSK20M	Top Side	0	39750	50	25	Reduce	Ant4	1	62.9	23.50	22.20	0.00	1.520	1.006	1.349	2.05
	LTE 41	QPSK20M	Top Side	0	40185	1	50	Reduce	Ant4	1	62.9	23.50	22.42	0.01	1.470	1.006	1.282	1.89
	LTE 41	QPSK20M	Top Side	0	40620	1	50	Reduce	Ant4	1	62.9	23.50	22.35	-0.08	1.360	1.006	1.303	1.77
	LTE 41	QPSK20M	Top Side	0	41055	1	50	Reduce	Ant4	1	62.9	23.50	22.32	0.04	1.150	1.006	1.312	1.51
	LTE 41	QPSK20M	Top Side	0	41490	1	50	Reduce	Ant4	1	62.9	23.50	22.35	0.19	0.941	1.006	1.303	1.23
	LTE 41	QPSK20M	Top Side	0	40185	50	25	Reduce	Ant4	1	62.9	23.50	22.16	0.02	1.450	1.006	1.361	1.97
	LTE 41	QPSK20M	Top Side	0	40620	50	25	Reduce	Ant4	1	62.9	23.50	22.09	0.12	1.330	1.006	1.384	1.84
	LTE 41	QPSK20M	Top Side	0	41055	50	25	Reduce	Ant4	1	62.9	23.50	22.12	0.04	1.130	1.006	1.374	1.55
	LTE 41	QPSK20M	Top Side	0	41490	50	25	Reduce	Ant4	1	62.9	23.50	22.03	0.08	0.928	1.006	1.403	1.30
	LTE 41	QPSK20M	Top Side	0	39750	100	0	Reduce	Ant4	1	62.9	23.50	22.23	-0.03	1.510	1.006	1.340	2.02
	LTE 41	QPSK20M	Top Side	0	39750	50	25	Reduce	Ant4	2	62.9	23.50	22.20	0.05	1.480	1.006	1.349	2.00
	LTE 66	QPSK20M	Rear Face	0	132322	1	50	Reduce	Ant0	1	-	21.50	20.17	0.01	1.110	1.000	1.358	1.51
	LTE 66	QPSK20M	Bottom Side	0	132322	1	50	Reduce	Ant0	1	-	21.50	20.17	0.01	1.650	1.000	1.358	2.24
	LTE 66	QPSK20M	Rear Face	0	132322	50	25	Reduce	Ant0	1	-	21.50	19.96	0.04	1.150	1.000	1.426	1.64
	LTE 66	QPSK20M	Bottom Side	0	132322	50	25	Reduce	Ant0	1	-	21.50	19.96	0.09	1.660	1.000	1.426	2.37
	LTE 66	QPSK20M	Bottom Side	0	132072	1	50	Reduce	Ant0	1	-	21.50	20.16	-0.02	1.200	1.000	1.361	1.63
	LTE 66	QPSK20M	Bottom Side	0	132572	1	50	Reduce	Ant0	1	-	21.50	20.14	0.07	1.770	1.000	1.368	2.42
	LTE 66	QPSK20M	Bottom Side	0	132072	50	25	Reduce	Ant0	1	-	21.50	19.92	0.13	1.030	1.000	1.439	1.48
P60	LTE 66	QPSK20M	Bottom Side	0	132572	50	25	Reduce	Ant0	1	-	21.50	19.87	0.12	1.750	1.000	1.455	2.55
	LTE 66	QPSK20M	Bottom Side	0	132322	100	0	Reduce	Ant0	1	-	21.50	19.88	-0.12	1.640	1.000	1.452	2.38
	LTE 66	QPSK20M	Bottom Side	0	132572	50	25	Reduce	Ant0	2	-	21.50	19.87	0.01	1.710	1.000	1.455	2.49
	WLAN5G	802.11a	Front Face	0	64	-	-	Reduce	Ant6	1	96.53	17.00	15.32	0.00	0.360	1.036	1.472	0.53
	WLAN5G	802.11a	Rear Face	0	64	-	-	Reduce	Ant6	1	96.53	17.00	15.32	-0.04	0.314	1.036	1.472	0.46
	WLAN5G	802.11a	Right Side	0	64	-	-	Reduce	Ant6	1	96.53	17.00	15.32	0.09	0.134	1.036	1.472	0.20
P61	WLAN5G	802.11a	Top Side	0	64	-	-	Reduce	Ant6	1	96.53	17.00	15.32	0.11	0.499	1.036	1.472	0.73
	WLAN5G	802.11a	Top Side	0	64	-	-	Reduce	Ant6	2	96.53	17.00	15.32	0.12	0.487	1.036	1.472	0.72
	WLAN5G	802.11a	Front Face	0	100	-	-	Full	Ant6	1	96.53	19.00	17.15	0.03	0.437	1.036	1.531	0.67
	WLAN5G	802.11a	Rear Face	0	100	-	-	Full	Ant6	1	96.53	19.00	17.15	0.19	0.521	1.036	1.531	0.80
	WLAN5G	802.11a	Right Side	0	100	-	-	Full	Ant6	1	96.53	19.00	17.15	-0.18	0.188	1.036	1.531	0.29
P62	WLAN5G	802.11a	Top Side	0	100	-	-	Full	Ant6	1	96.53	19.00	17.15	-0.19	0.600	1.036	1.531	0.92



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Antenna	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
	WLAN5G	802.11a	Top Side	0	100	-	-	Full	Ant6	2	96.53	19.00	17.15	0.07	0.572	1.036	1.531	0.88

4.6.6 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
GSM850	Right Cheek	128	0.811	0.805	1.007	N/A	N/A	N/A	N/A
GSM1900	Right Cheek	810	0.816	0.812	1.005	N/A	N/A	N/A	N/A
LTE B7	Right Tilted	20850	0.824	0.819	1.006	N/A	N/A	N/A	N/A

4.6.7 Simultaneous Multi-band Transmission Evaluation

<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

< Head Exposure Condition >

WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Right Cheek at 0mm	1.045	0.150	0.358	0.058	1.25	1.46
	Right Tilted at 0mm	0.733	0.137	0.396	0.055	0.92	1.18
	Left Cheek at 0mm	0.753	0.375	0.396	0.146	1.27	1.29
	Left Tilted at 0mm	0.670	0.296	0.521	0.115	1.08	1.31
GSM1900	Right Cheek at 0mm	1.073	0.150	0.358	0.058	1.28	1.49
	Right Tilted at 0mm	0.686	0.137	0.396	0.055	0.88	1.14
	Left Cheek at 0mm	0.570	0.375	0.396	0.146	1.09	1.11
	Left Tilted at 0mm	0.716	0.296	0.521	0.115	1.13	1.35
WCDMA II	Right Cheek at 0mm	0.996	0.150	0.358	0.058	1.20	1.41
	Right Tilted at 0mm	0.760	0.137	0.396	0.055	0.95	1.21
	Left Cheek at 0mm	0.652	0.375	0.396	0.146	1.17	1.19
	Left Tilted at 0mm	0.771	0.296	0.521	0.115	1.18	1.41
WCDMA IV	Right Cheek at 0mm	1.000	0.150	0.358	0.058	1.21	1.42
	Right Tilted at 0mm	0.544	0.137	0.396	0.055	0.74	0.99
	Left Cheek at 0mm	0.483	0.375	0.396	0.146	1.00	1.02
	Left Tilted at 0mm	0.649	0.296	0.521	0.115	1.06	1.28
WCDMA V	Right Cheek at 0mm	0.737	0.150	0.358	0.058	0.95	1.15
	Right Tilted at 0mm	0.674	0.137	0.396	0.055	0.87	1.12
	Left Cheek at 0mm	1.025	0.375	0.396	0.146	1.55	1.57
	Left Tilted at 0mm	0.725	0.296	0.521	0.115	1.14	1.36
LTE Band 2	Right Cheek at 0mm	1.076	0.150	0.358	0.058	1.28	1.49
	Right Tilted at 0mm	0.788	0.137	0.396	0.055	0.98	1.24
	Left Cheek at 0mm	0.683	0.375	0.396	0.146	1.20	1.22
	Left Tilted at 0mm	0.933	0.296	0.521	0.115	1.34	1.57
LTE Band 7	Right Cheek at 0mm	0.884	0.150	0.358	0.058	1.09	1.30
	Right Tilted at 0mm	1.081	0.137	0.396	0.055	1.27	1.53
	Left Cheek at 0mm	0.655	0.375	0.396	0.146	1.18	1.20
	Left Tilted at 0mm	0.794	0.296	0.521	0.115	1.21	1.43
LTE Band 12	Right Cheek at 0mm	0.937	0.150	0.358	0.058	1.15	1.35
	Right Tilted at 0mm	0.921	0.137	0.396	0.055	1.11	1.37



WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Left Cheek at 0mm	0.887	0.375	0.396	0.146	1.41	1.43
	Left Tilted at 0mm	0.726	0.296	0.521	0.115	1.14	1.36
LTE Band 13	Right Cheek at 0mm	0.832	0.150	0.358	0.058	1.04	1.25
	Right Tilted at 0mm	0.860	0.137	0.396	0.055	1.05	1.31
	Left Cheek at 0mm	0.911	0.375	0.396	0.146	1.43	1.45
	Left Tilted at 0mm	0.776	0.296	0.521	0.115	1.19	1.41
LTE Band 26	Right Cheek at 0mm	0.980	0.150	0.358	0.058	1.19	1.40
	Right Tilted at 0mm	0.959	0.137	0.396	0.055	1.15	1.41
	Left Cheek at 0mm	0.960	0.375	0.396	0.146	1.48	1.50
	Left Tilted at 0mm	0.907	0.296	0.521	0.115	1.32	1.54
LTE Band 38	Right Cheek at 0mm	0.771	0.150	0.358	0.058	0.98	1.19
	Right Tilted at 0mm	1.008	0.137	0.396	0.055	1.20	1.46
	Left Cheek at 0mm	0.535	0.375	0.396	0.146	1.06	1.08
	Left Tilted at 0mm	0.630	0.296	0.521	0.115	1.04	1.27
LTE Band 41	Right Cheek at 0mm	0.862	0.150	0.358	0.058	1.07	1.28
	Right Tilted at 0mm	1.086	0.137	0.396	0.055	1.28	1.54
	Left Cheek at 0mm	0.637	0.375	0.396	0.146	1.16	1.18
	Left Tilted at 0mm	0.770	0.296	0.521	0.115	1.18	1.41
LTE Band 66	Right Cheek at 0mm	1.021	0.150	0.358	0.058	1.23	1.44
	Right Tilted at 0mm	0.528	0.137	0.396	0.055	0.72	0.98
	Left Cheek at 0mm	0.517	0.375	0.396	0.146	1.04	1.06
	Left Tilted at 0mm	0.677	0.296	0.521	0.115	1.09	1.31

< Body Worn Exposure Condition >

WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Front at 10mm -	0.340	0.288	0.259	0.040	0.67	0.64
	Back at 10mm -	0.634	0.432	0.510	0.053	1.12	1.20
GSM1900	Front at 10mm -	0.402	0.288	0.259	0.040	0.73	0.70
	Back at 10mm -	0.780	0.432	0.510	0.053	1.27	1.34
WCDMA II	Front at 10mm -	0.774	0.288	0.259	0.040	1.10	1.07
	Back at 10mm -	0.916	0.432	0.510	0.053	1.40	1.48
	Back at 15mm -	0.635	0.432	0.510	0.053	1.12	1.20
WCDMA IV	Front at 10mm -	0.716	0.288	0.259	0.040	1.04	1.01
	Back at 10mm -	0.626	0.432	0.510	0.053	1.11	1.19
	Back at 15mm -	0.819	0.432	0.510	0.053	1.30	1.38
WCDMA V	Front at 10mm -	0.286	0.288	0.259	0.040	0.61	0.58



WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Back at 10mm -	0.518	0.432	0.510	0.053	1.00	1.08
LTE Band 2	Front at 10mm -	0.793	0.288	0.259	0.040	1.12	1.09
	Back at 10mm -	0.804	0.432	0.510	0.053	1.29	1.37
	Back at 15mm -	0.631	0.432	0.510	0.053	1.12	1.19
	Back at 15mm -	0.631	0.432	0.510	0.053	1.12	1.19
LTE Band 7	Front at 10mm -	0.863	0.288	0.259	0.040	1.19	1.16
	Back at 10mm -	0.557	0.432	0.510	0.053	1.04	1.12
	Back at 15mm -	0.768	0.432	0.510	0.053	1.25	1.33
	Back at 15mm -	0.768	0.432	0.510	0.053	1.25	1.33
LTE Band 12	Front at 10mm -	0.217	0.288	0.259	0.040	0.54	0.51
	Back at 10mm -	0.336	0.432	0.510	0.053	0.82	0.90
LTE Band 13	Front at 10mm -	0.203	0.288	0.259	0.040	0.53	0.50
	Back at 10mm -	0.367	0.432	0.510	0.053	0.85	0.93
LTE Band 26	Front at 10mm -	0.266	0.288	0.259	0.040	0.59	0.56
	Back at 10mm -	0.475	0.432	0.510	0.053	0.96	1.04
LTE Band 38	Front at 10mm -	0.667	0.288	0.259	0.040	0.99	0.96
	Back at 10mm -	0.652	0.432	0.510	0.053	1.14	1.21
	Back at 15mm -	0.492	0.432	0.510	0.053	0.98	1.05
	Back at 15mm -	0.492	0.432	0.510	0.053	0.98	1.05
LTE Band 41	Front at 10mm -	0.730	0.288	0.259	0.040	1.06	1.03
	Back at 10mm -	0.709	0.432	0.510	0.053	1.19	1.27
	Back at 15mm -	0.609	0.432	0.510	0.053	1.09	1.17
	Back at 15mm -	0.609	0.432	0.510	0.053	1.09	1.17
LTE Band 66	Front at 10mm -	0.666	0.288	0.259	0.040	0.99	0.96
	Back at 10mm -	0.658	0.432	0.510	0.053	1.14	1.22
	Back at 15mm -	0.770	0.432	0.510	0.053	1.25	1.33
	Back at 15mm -	0.770	0.432	0.510	0.053	1.25	1.33

< Hotspot Exposure Condition >

WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Front at 10mm -	0.340	0.288	0.282	0.040	0.67	0.66
	Back at 10mm -	0.634	0.432	0.516	0.053	1.12	1.20
	Left side at 10mm -	0.192				0.19	0.19
	Right side at 10mm -	0.328	0.254	0.233	0.036	0.62	0.60
	Top side at 10mm -	0.284	0.244	0.445	0.032	0.56	0.76
	Bottom side at 10mm -	0.509				0.51	0.51
GSM1900	Front at 10mm -	0.402	0.288	0.282	0.040	0.73	0.72
	Back at 10mm -	0.780	0.432	0.516	0.053	1.27	1.35
	Left side at 10mm -	0.243				0.24	0.24
	Right side at 10mm -	0.161	0.254	0.233	0.036	0.45	0.43

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WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Top side at 10mm -	0.667	0.244	0.445	0.032	0.94	1.14
	Bottom side at 10mm -	0.671				0.67	0.67
WCDMA II	Front at 10mm -	0.774	0.288	0.282	0.040	1.10	1.10
	Back at 10mm -	0.916	0.432	0.516	0.053	1.40	1.48
	Left side at 10mm -	0.386				0.39	0.39
	Right side at 10mm -	0.225	0.254	0.233	0.036	0.51	0.49
	Top side at 10mm -	0.847	0.244	0.445	0.032	1.12	1.32
	Bottom side at 10mm -	0.757				0.76	0.76
	Back at 15mm -	0.635	0.432	0.516	0.053	1.12	1.20
	Top side at 15mm -	0.637	0.244	0.445	0.032	0.91	1.11
	Bottom side at 15mm -	0.482				0.48	0.48
WCDMA IV	Front at 10mm -	0.716	0.288	0.282	0.040	1.04	1.04
	Back at 10mm -	0.626	0.432	0.516	0.053	1.11	1.20
	Left side at 10mm -	0.243				0.24	0.24
	Right side at 10mm -	0.056	0.254	0.233	0.036	0.35	0.32
	Top side at 10mm -	0.674	0.244	0.445	0.032	0.95	1.15
	Bottom side at 10mm -	0.866				0.87	0.87
	Back at 15mm -	0.819	0.432	0.516	0.053	1.30	1.39
	Bottom side at 15mm -	1.035				1.03	1.03
WCDMA V	Front at 10mm -	0.286	0.288	0.282	0.040	0.61	0.61
	Back at 10mm -	0.518	0.432	0.516	0.053	1.00	1.09
	Left side at 10mm -	0.153				0.15	0.15
	Right side at 10mm -	0.275	0.254	0.233	0.036	0.56	0.54
	Top side at 10mm -	0.254	0.244	0.445	0.032	0.53	0.73
	Bottom side at 10mm -	0.412				0.41	0.41
LTE Band 2	Front at 10mm -	0.793	0.288	0.282	0.040	1.12	1.11
	Back at 10mm -	0.804	0.432	0.516	0.053	1.29	1.37
	Left side at 10mm -	0.411				0.41	0.41
	Right side at 10mm -	0.230	0.254	0.233	0.036	0.52	0.50
	Top side at 10mm -	0.773	0.244	0.445	0.032	1.05	1.25
	Bottom side at 10mm -	0.621				0.62	0.62
	Back at 15mm -	0.631	0.432	0.516	0.053	1.12	1.20
	Top side at 15mm -	0.652	0.244	0.445	0.032	0.93	1.13
	Bottom side at 15mm -	0.579				0.58	0.58
LTE Band 7	Front at 10mm -	0.863	0.288	0.282	0.040	1.19	1.19
	Back at 10mm -	0.557	0.432	0.516	0.053	1.04	1.13
	Left side at 10mm -	0.431				0.43	0.43
	Right side at 10mm -	0.129	0.254	0.233	0.036	0.42	0.40

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WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Top side at 10mm -	0.773	0.244	0.445	0.032	1.05	1.25
	Bottom side at 10mm -	0.403				0.40	0.40
	Back at 15mm -	0.768	0.432	0.516	0.053	1.25	1.34
	Top side at 15mm -	1.043	0.244	0.445	0.032	1.32	1.52
	Bottom side at 15mm -	0.523				0.52	0.52
LTE Band 12	Front at 10mm -	0.217	0.288	0.282	0.040	0.54	0.54
	Back at 10mm -	0.336	0.432	0.516	0.053	0.82	0.90
	Left side at 10mm -	0.247				0.25	0.25
	Right side at 10mm -	0.239	0.254	0.233	0.036	0.53	0.51
	Top side at 10mm -	0.152	0.244	0.445	0.032	0.43	0.63
	Bottom side at 10mm -	0.255				0.25	0.25
LTE Band 13	Front at 10mm -	0.203	0.288	0.282	0.040	0.53	0.52
	Back at 10mm -	0.367	0.432	0.516	0.053	0.85	0.94
	Left side at 10mm -	0.150				0.15	0.15
	Right side at 10mm -	0.126	0.254	0.233	0.036	0.42	0.39
	Top side at 10mm -	0.265	0.244	0.445	0.032	0.54	0.74
	Bottom side at 10mm -	0.186				0.19	0.19
LTE Band 26	Front at 10mm -	0.266	0.288	0.282	0.040	0.59	0.59
	Back at 10mm -	0.475	0.432	0.516	0.053	0.96	1.04
	Left side at 10mm -	0.144				0.14	0.14
	Right side at 10mm -	0.207	0.254	0.233	0.036	0.50	0.48
	Top side at 10mm -	0.301	0.244	0.445	0.032	0.58	0.78
	Bottom side at 10mm -	0.357				0.36	0.36
LTE Band 38	Front at 10mm -	0.667	0.288	0.282	0.040	0.99	0.99
	Back at 10mm -	0.652	0.432	0.516	0.053	1.14	1.22
	Left side at 10mm -	0.227				0.23	0.23
	Right side at 10mm -	0.080	0.254	0.233	0.036	0.37	0.35
	Top side at 10mm -	0.873	0.244	0.445	0.032	1.15	1.35
	Bottom side at 10mm -	0.351				0.35	0.35
	Back at 15mm -	0.492	0.432	0.516	0.053	0.98	1.06
	Top side at 15mm -	0.759	0.244	0.445	0.032	1.03	1.24
	Bottom side at 15mm -	0.282				0.28	0.28
LTE Band 41	Front at 10mm -	0.730	0.288	0.282	0.040	1.06	1.05
	Back at 10mm -	0.709	0.432	0.516	0.053	1.19	1.28
	Left side at 10mm -	0.333				0.33	0.33
	Right side at 10mm -	0.112	0.254	0.233	0.036	0.40	0.38
	Top side at 10mm -	0.991	0.244	0.445	0.032	1.27	1.47
	Bottom side at 10mm -	0.533				0.53	0.53



WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Back at 15mm -	0.609	0.432	0.516	0.053	1.09	1.18
	Top side at 15mm -	0.863	0.244	0.445	0.032	1.14	1.34
	Bottom side at 15mm -	0.341				0.34	0.34
LTE Band 66	Front at 10mm -	0.666	0.288	0.282	0.040	0.99	0.99
	Back at 10mm -	0.658	0.432	0.516	0.053	1.14	1.23
	Left side at 10mm -	0.295				0.29	0.29
	Right side at 10mm -	0.202	0.254	0.233	0.036	0.49	0.47
	Top side at 10mm -	0.699	0.244	0.445	0.032	0.97	1.18
	Bottom side at 10mm -	0.976				0.98	0.98
	Back at 15mm -	0.770	0.432	0.516	0.053	1.25	1.34
	Bottom side at 15mm -	0.945				0.95	0.95

<Extremity Exposure Condition >

WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 10g SAR (W/kg)	1+3+4 Summed 10g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
WCDMA II	Front at 0mm -			0.669		0.00	0.67
	Back at 0mm -	2.511		0.798		2.51	3.31
	Right side at 0mm -			0.288		0.00	0.29
	Top side at 0mm -	2.242		0.919		2.24	3.16
	Bottom side at 0mm -	2.560				2.56	2.56
WCDMA IV	Front at 0mm -			0.669		0.00	0.67
	Back at 0mm -	1.847		0.798		1.85	2.65
	Right side at 0mm -			0.288		0.00	0.29
	Top side at 0mm -			0.919		0.00	0.92
	Bottom side at 0mm -	2.481				2.48	2.48
LTE Band 2	Front at 0mm -			0.669		0.00	0.67
	Back at 0mm -	2.491		0.798		2.49	3.29
	Right side at 0mm -			0.288		0.00	0.29
	Top side at 0mm -	2.374		0.919		2.37	3.29
	Bottom side at 0mm -	2.304				2.30	2.30
LTE Band 7	Front at 0mm -			0.669		0.00	0.67
	Back at 0mm -	1.672		0.798		1.67	2.47
	Right side at 0mm -			0.288		0.00	0.29
	Top side at 0mm -	1.652		0.919		1.65	2.57
	Bottom side at 0mm -	1.449				1.45	1.45
LTE Band 38	Front at 0mm -			0.669		0.00	0.67
	Back at 0mm -			0.798		0.00	0.80



	Right side at 0mm -			0.288		0.00	0.29
	Top side at 0mm -	2.114		0.919		2.11	3.03
	Bottom side at 0mm -					0.00	0.00
LTE Band 41	Front at 0mm -			0.669		0.00	0.67
	Back at 0mm -			0.798		0.00	0.80
	Right side at 0mm -			0.288		0.00	0.29
	Top side at 0mm -	2.050		0.919		2.05	2.97
	Bottom side at 0mm -					0.00	0.00
LTE Band 66	Front at 0mm -			0.669		0.00	0.67
	Back at 0mm -	1.639		0.798		1.64	2.44
	Right side at 0mm -			0.288		0.00	0.29
	Top side at 0mm -			0.919		0.00	0.92
	Bottom side at 0mm -	2.547				2.55	2.55

Note:

1. Summed 1+2+4 covers Summed 1+2 / 1+4 / 2+4, Summed 1+3+4 covers Summed 1+3 / 1+4 / 3+4.
2. The SAR summation of maximum SAR of WWAN and WLAN/BT for each position is under the SAR limitation (**Head & Body: SAR_{1g} 1.6 W/kg, Extremity: SAR_{10g} 4.0 W/kg**). Therefore, the simultaneous transmission condition is compliance with the SAR criterion.

Test Engineer : Rikou Lu, and Dennis Ye



5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1067	Sep. 16, 2021	3 Years
System Validation Dipole	SPEAG	D835V2	4d139	Sep. 17, 2021	3 Years
System Validation Dipole	SPEAG	D1750V2	1071	Sep. 18, 2021	3 Years
System Validation Dipole	SPEAG	D1900V2	5d159	Sep. 16, 2021	3 Years
System Validation Dipole	SPEAG	D2450V2	893	Sep. 18, 2021	3 Years
System Validation Dipole	SPEAG	D2600V2	1110	Sep. 16, 2021	3 Years
System Validation Dipole	SPEAG	D5GHzV2	1133	Sep. 14, 2021	3 Years
Data Acquisition Electronics	SPEAG	DAE4	1389	Nov. 09, 2022	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Aug. 31, 2022	1 Year
Dielectric Probe Kit	SPEAG	DAK-3.5	1076	Aug. 29, 2022	1 Year
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14, 2023	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50260600	May. 12, 2022	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214638	May. 07, 2022	1 Year
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510355	May. 14, 2022	1 Year
MXG Analog Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14, 2023	1 Year
Power Meter	Agilent	N1914A	MY52180044	Feb. 15, 2023	1 Year
Power Sensor	Agilent	E9304A H18	MY52050011	Feb. 15, 2023	1 Year
Power Meter	ANRITSU	ML2495A	1506002	Feb. 14, 2023	1 Year
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 14, 2023	1 Year
Temp. & Humi. Recorder	HUATO	A2000TH	HE20107684	May. 11, 2022	1 Year
Electronic Thermometer	YONGFA	YF-160A	120100323	May. 14, 2022	1 Year
Coupler	Woken	0110A056020-10	COM27RW1A3	May. 11, 2022	1 Year

Note:

- Referring to KDB 865664 D01 v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipole are also not physically damaged, or repaired during the interval. The dipole justification can be found in appendix C.
The return loss is $< -20\text{dB}$, within 20% of prior calibration, the impedance is with 5ohm of prior calibration.

6. Measurement Uncertainty

DASY5 Uncertainty Budget								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.0	N	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7	∞
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2	∞
Test Sample Related								
Device Positioning	3.0	N	1	1	1	3.0	3.0	35
Device Holder	3.6	N	1	1	1	3.6	3.6	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1	∞
Combined Std. Uncertainty						11.4%	11.4%	1013
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						22.9%	22.7%	

Uncertainty budget for frequency range 30 MHz to 3 GHz



DASY5 Uncertainty Budget								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.55	N	1	1	1	6.5	6.5	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	3.0	N	1	1	1	3.0	3.0	35
Device Holder	3.6	N	1	1	1	3.6	3.6	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1	∞
Combined Std. Uncertainty						12.5%	12.5%	1458
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						25.0%	24.9%	

Uncertainty budget for frequency range 3 GHz to 6 GHz



7. Information on the Testing Laboratories

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The road map of all our labs can be found in our web site also.

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_HSL750_230311**DUT: Dipole:750 MHz D750V3**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750_0311 Medium parameters used: $f = 750$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 43.564$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.59, 9.59, 9.59) @ 750 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.94 W/kg

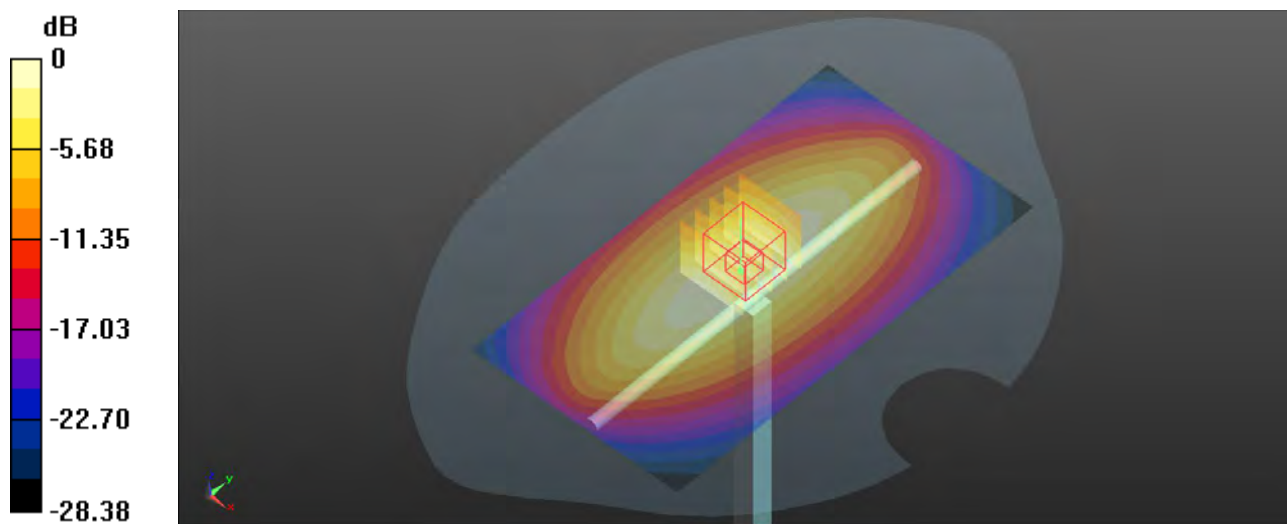
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.54 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.47 W/kg

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg

System Check_HSL835_230312**DUT: Dipole:835 MHz D835V2**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835_0312 Medium parameters used: $f = 835$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 43.308$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 835 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.32 W/kg

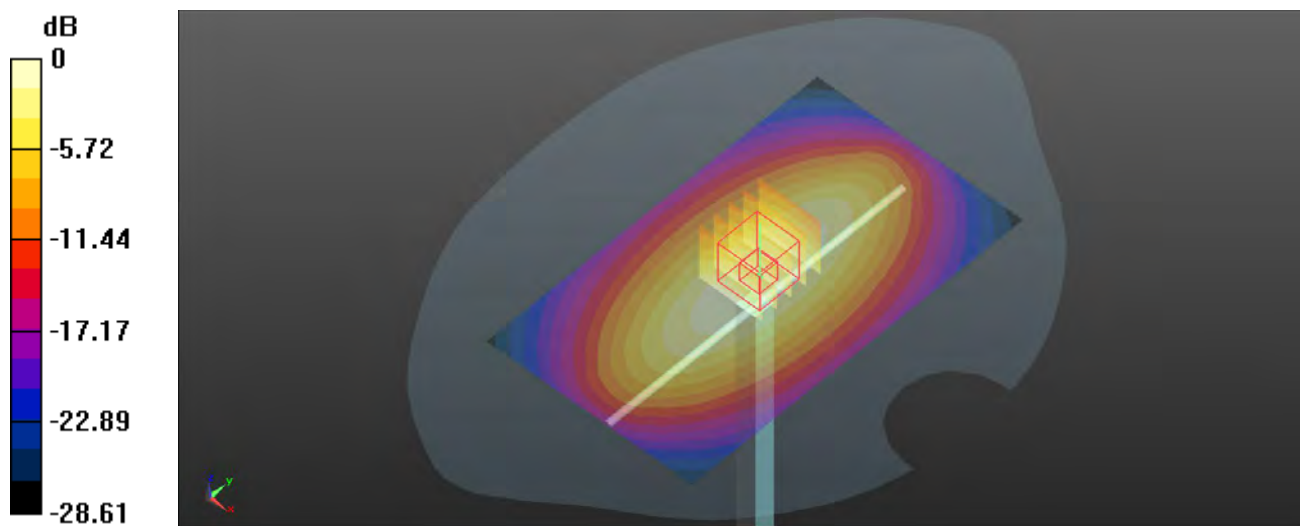
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.91 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.62 W/kg

Maximum value of SAR (measured) = 3.35 W/kg



0 dB = 3.35 W/kg

System Check_HSL835_230313

DUT: Dipole:835 MHz D835V2

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835_0313 Medium parameters used: $f = 835$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 43.325$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 835 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.78 W/kg

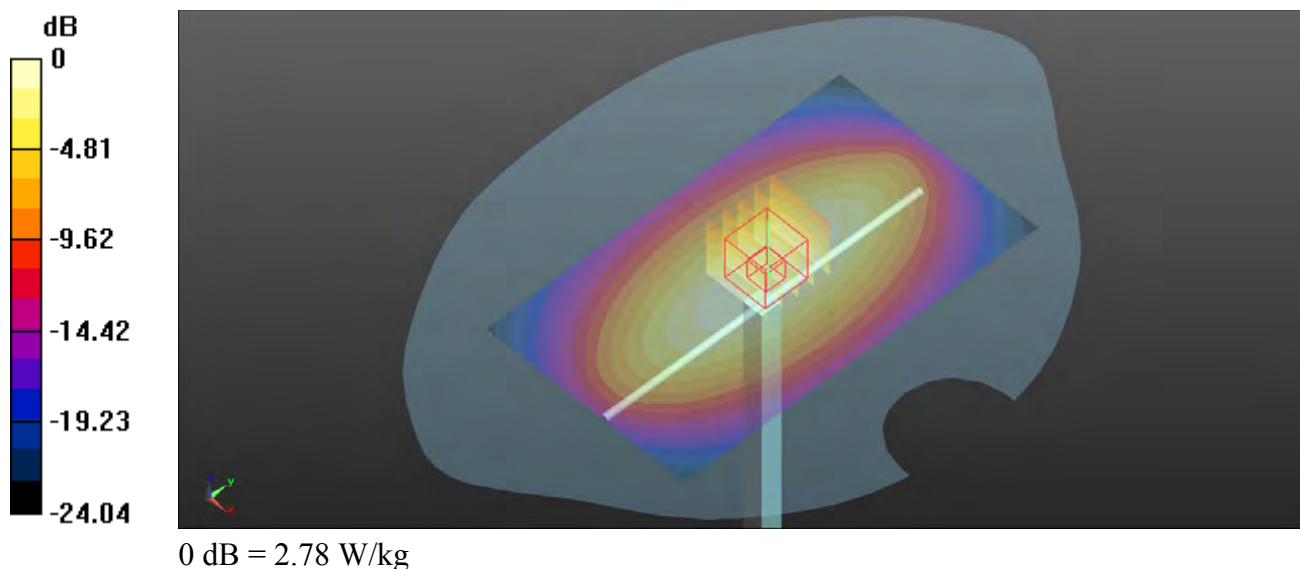
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.74 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.82 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.59 W/kg

Maximum value of SAR (measured) = 2.78 W/kg



System Check_HSL1750_230314**DUT: Dipole:1750 MHz D1750V2**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 41.123$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1750 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.7 W/kg

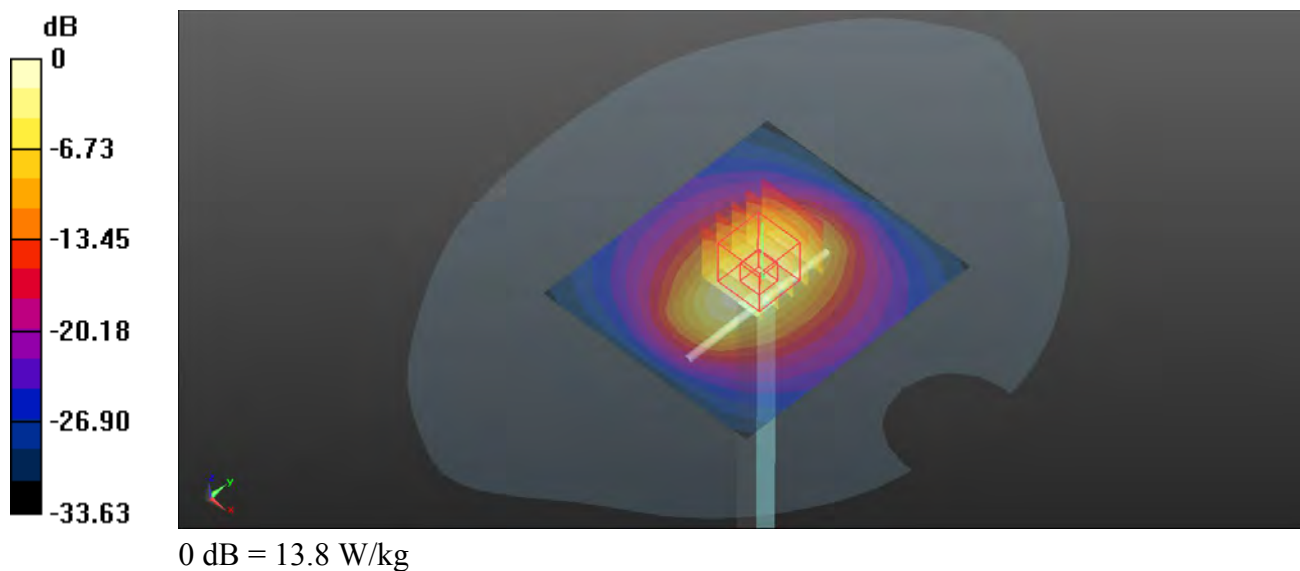
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 102.2 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 8.93 W/kg; SAR(10 g) = 4.74 W/kg

Maximum value of SAR (measured) = 13.8 W/kg



System Check_HSL1750_230318

DUT: Dipole:1750 MHz;Type:D1750V2

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750_0318 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.328$ S/m; $\epsilon_r = 39.635$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1750 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.8 W/kg

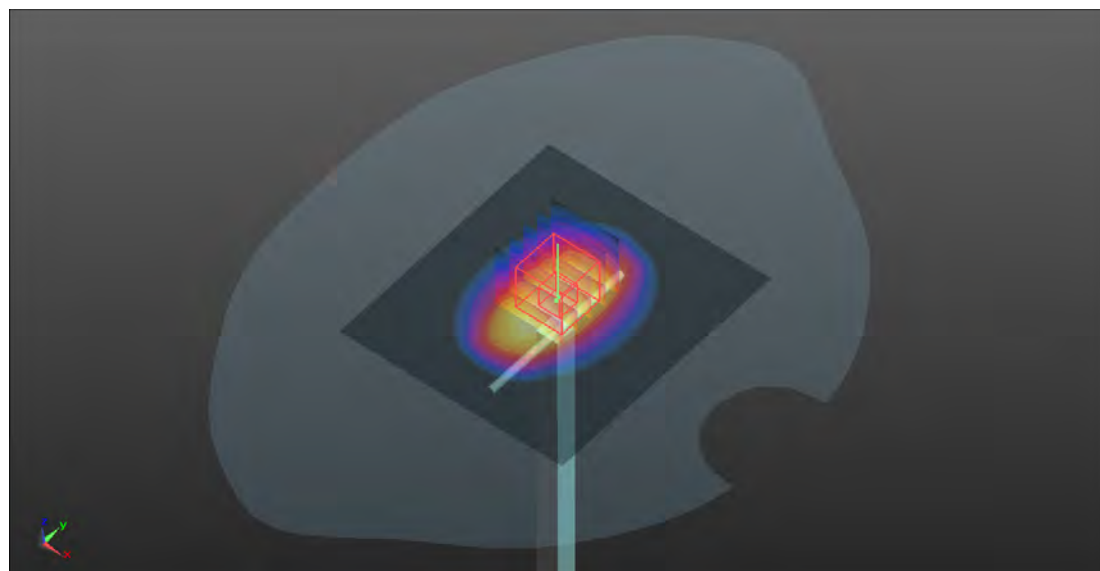
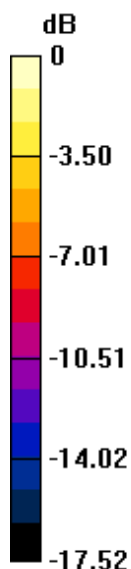
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 105.3 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 8.95 W/kg; SAR(10 g) = 4.73 W/kg

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg

System Check_HSL1900_230312**DUT: Dipole:1900MHz D1900V2**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0312 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.436$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

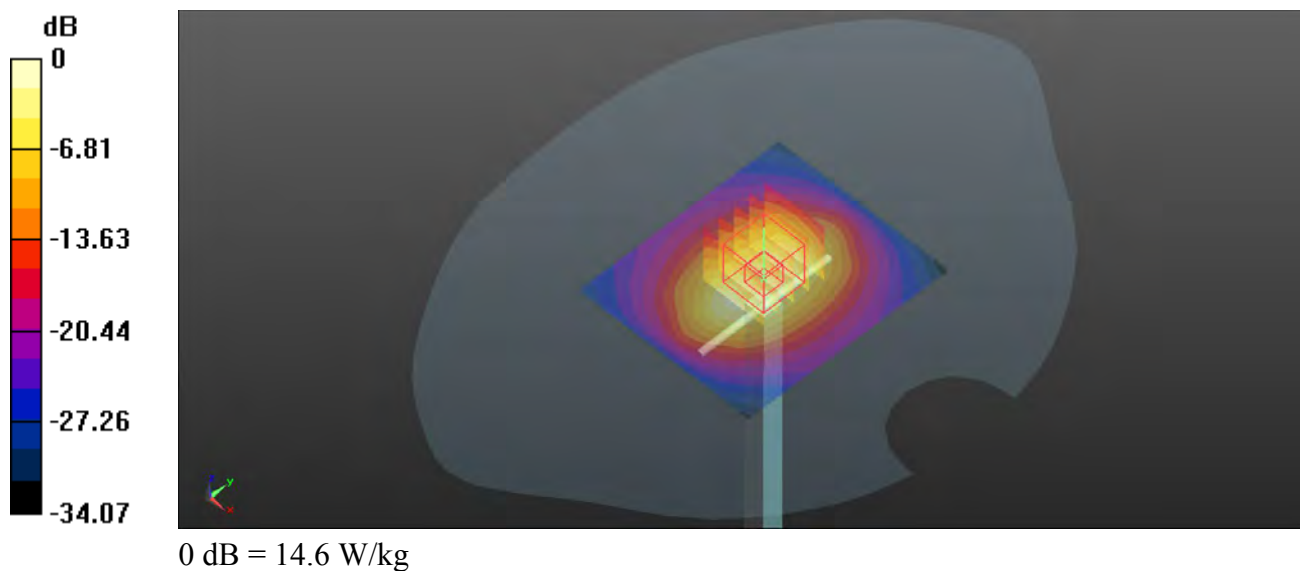
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.03 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.59 W/kg; SAR(10 g) = 4.85 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



System Check_HSL1900_230315

DUT: Dipole:1900 MHz D1900V2

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.438$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.1 W/kg

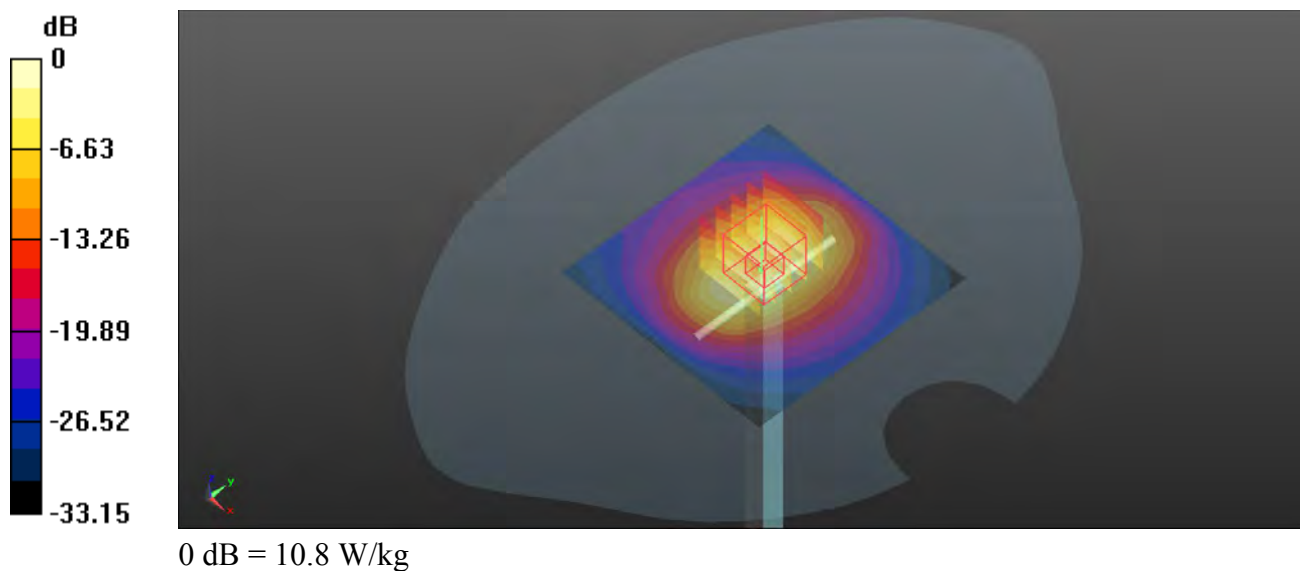
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 84.45 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.6 W/kg; SAR(10 g) = 4.98 W/kg

Maximum value of SAR (measured) = 10.8 W/kg



System Check_HSL2450_230316**DUT: Dipole:2450 MHz D2450V2**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450_0316 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.819$ S/m; $\epsilon_r = 39.37$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.59, 7.59, 7.59) @ 2450 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 19.7 W/kg

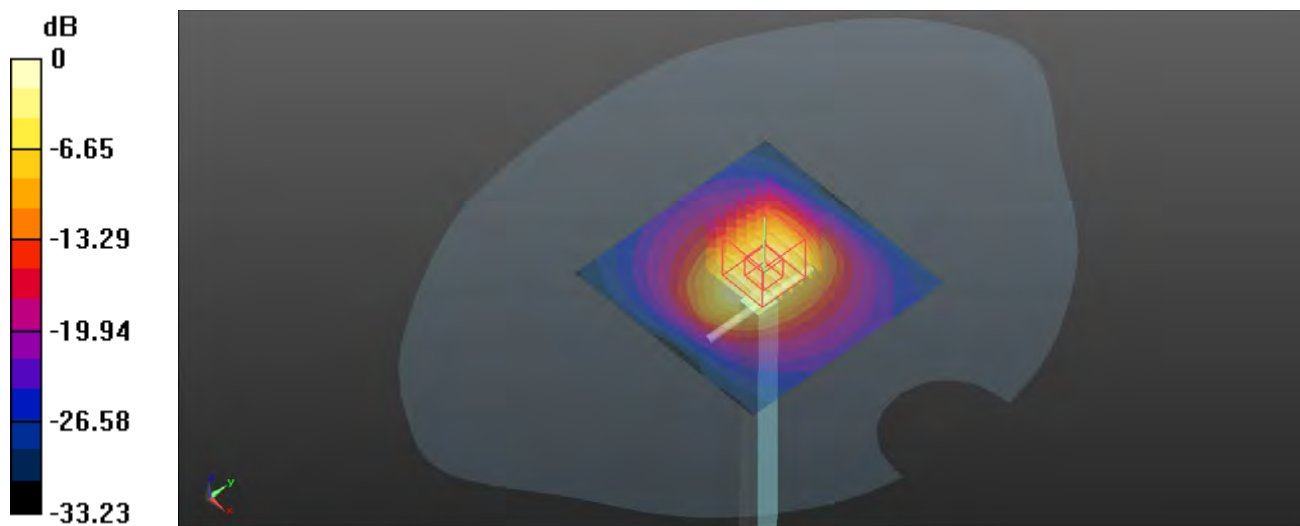
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.4 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 24.3 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.9 W/kg

Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg

System Check_HSL2600_230321

DUT: Dipole:2600 MHz;Type:D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_0321 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.895$ S/m; $\epsilon_r = 39.172$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2600 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 24.1 W/kg

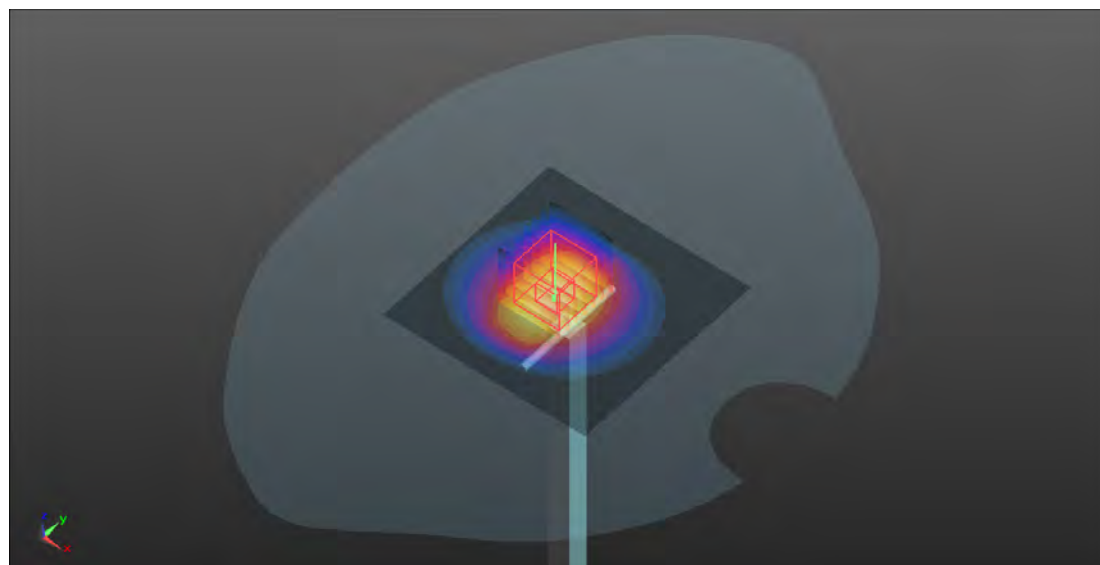
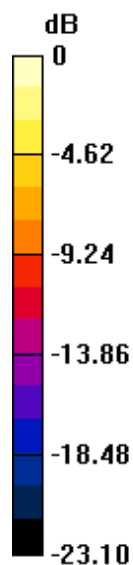
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.2 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 30.8 W/kg

SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.52 W/kg

Maximum value of SAR (measured) = 24.7 W/kg



0 dB = 24.7 W/kg

System Check_HSL2600_230322**DUT: Dipole:2600 MHz D2600V2**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_0322 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.937$ S/m; $\epsilon_r = 39.15$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2600 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.2 W/kg

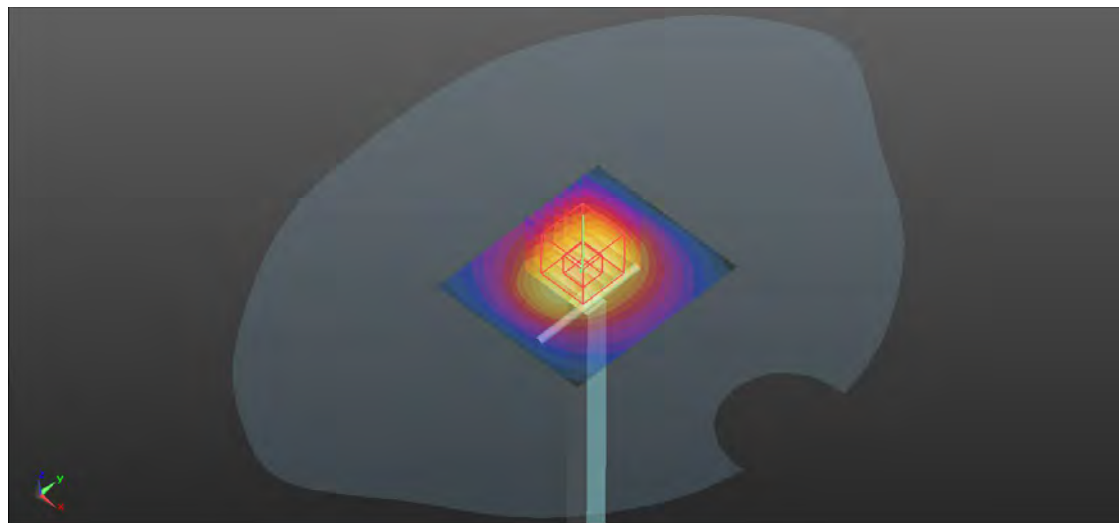
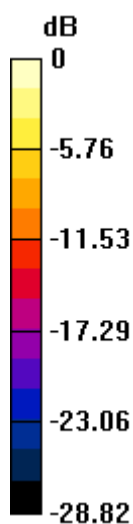
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 101.9 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 26.1 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.16 W/kg

Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 19.1 W/kg

System Check_HSL2600_230323**DUT: Dipole:2600 MHz D2600V2**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_0323 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.933$ S/m; $\epsilon_r = 39.017$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2600 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 25.6 W/kg

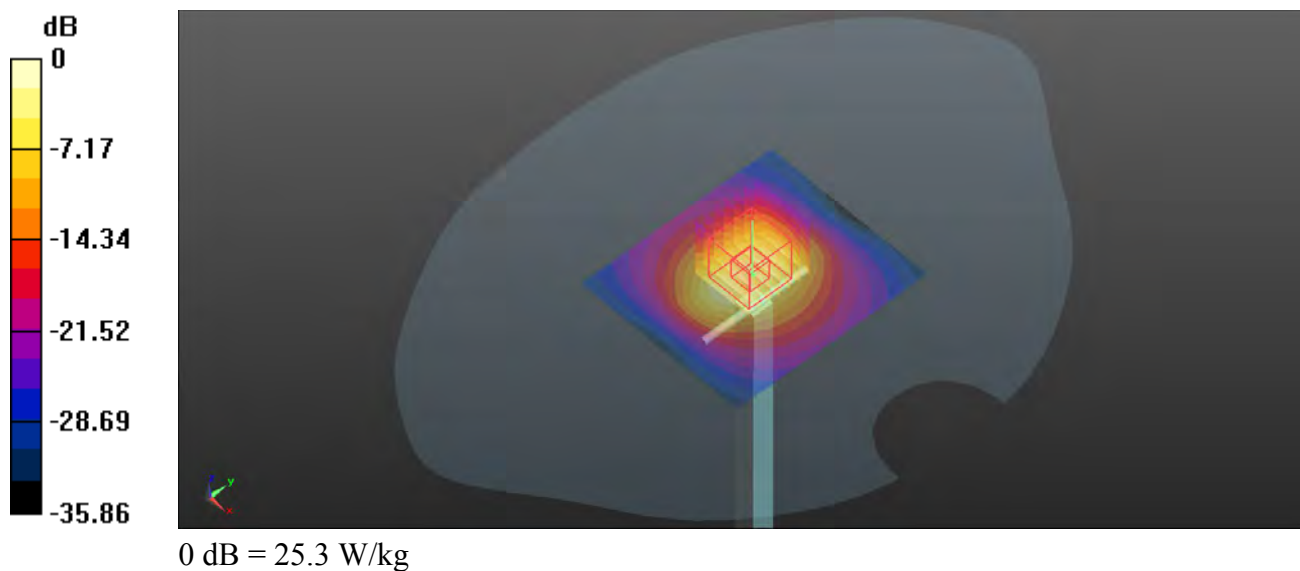
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.9 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.23 W/kg

Maximum value of SAR (measured) = 25.3 W/kg



System Check_HSL5250_230317**DUT: Dipole 5GHzV2 D5GHzV2**

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G_0317 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.63$ S/m; $\epsilon_r = 36.197$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.75, 4.75, 4.75) @ 5250 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.8 W/kg

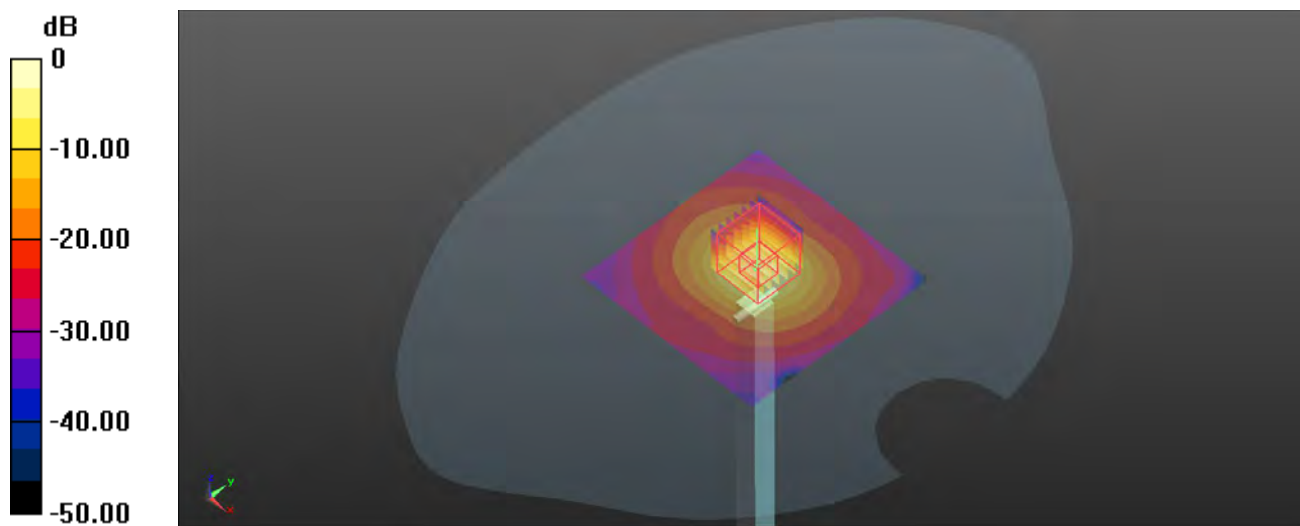
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.27 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg

System Check_HSL5600_230317**DUT: Dipole 5GHzV2 D5GHzV2**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G_0317 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.013$ S/m; $\epsilon_r = 35.635$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.47, 4.47, 4.47) @ 5600 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.3 W/kg

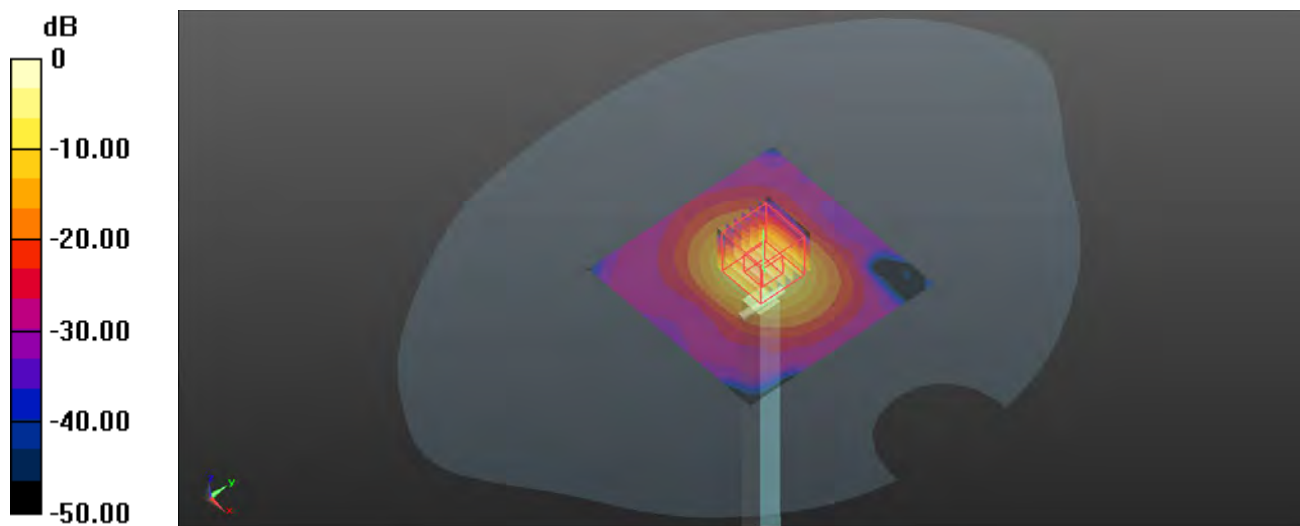
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.18 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 37.1 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg

System Check_HSL5800_230317**DUT: Dipole 5GHzV2 D5GHzV2**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5G_0317 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.199$ S/m; $\epsilon_r = 35.198$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.48, 4.48, 4.48) @ 5800 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

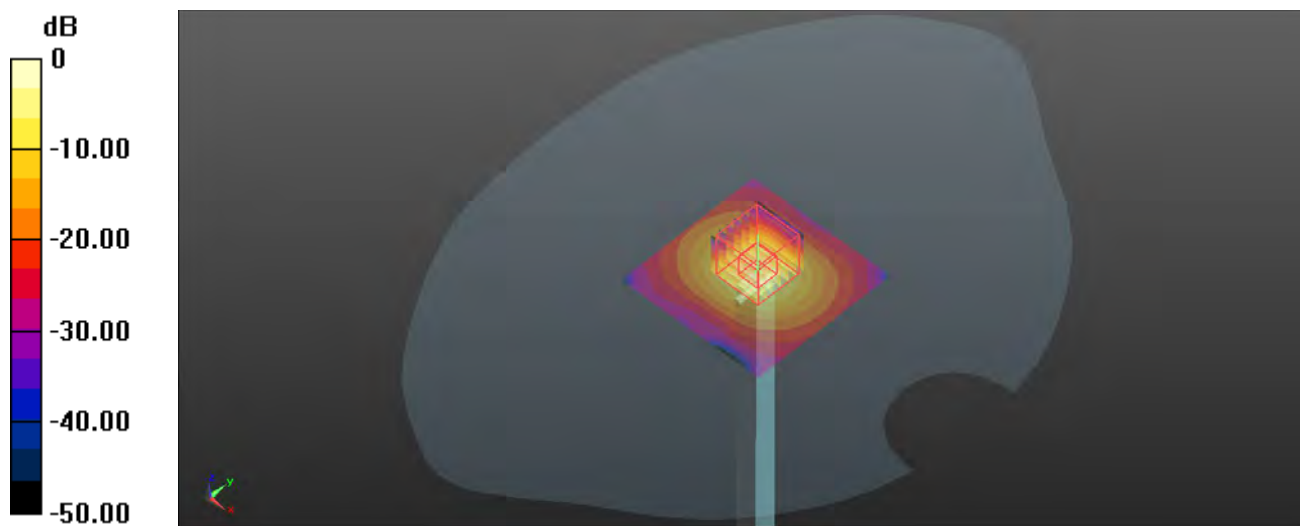
Pin=100mW/Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 54.56 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 34.1 W/kg

SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.12 W/kg

Maximum value of SAR (measured) = 15.9 W/kg





Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 GSM850_GPRS(4Tx-slot)_Right Cheek_Ch128_Ant4

Communication System: GPRS(4Tx-slot); Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: HSL835_0312 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 43.403$; $\rho =$

1000 kg/m^3

Ambient Temperature : 23.5°C ; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 824.2 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x51x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.12 W/kg

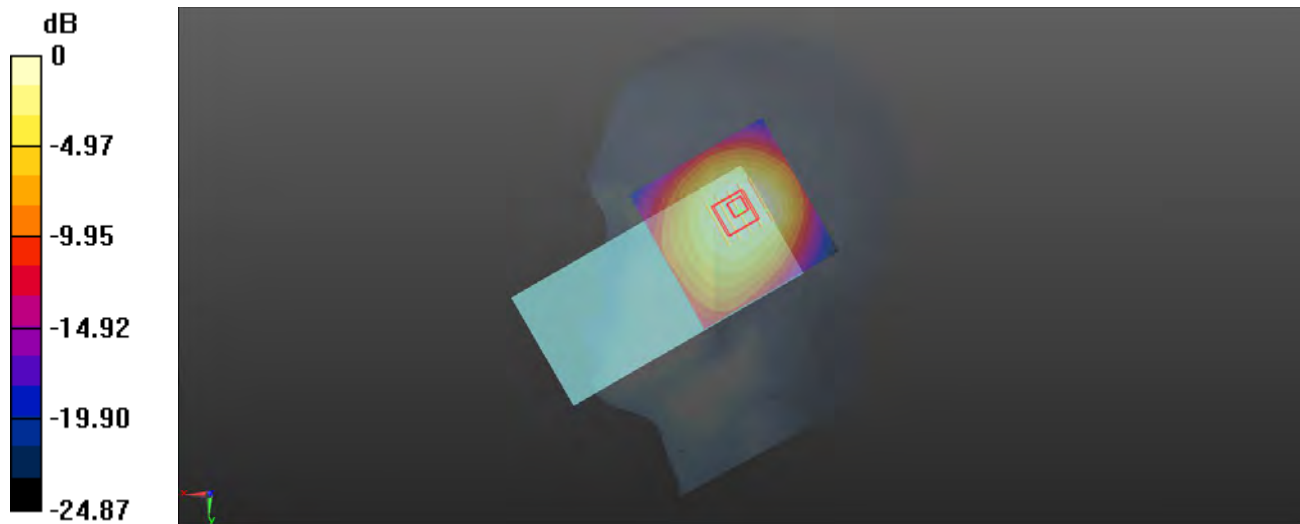
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.77 V/m ; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.811 W/kg ; SAR(10 g) = 0.591 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

P02 GSM1900_GPRS(4Tx-slot)_Right Cheek_Ch810_Ant4

Communication System: GPRS(4Tx-slot); Frequency: 1909.8 MHz; Duty Cycle: 1:2.08

Medium: HSL1900_0312 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1909.8 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.20 W/kg

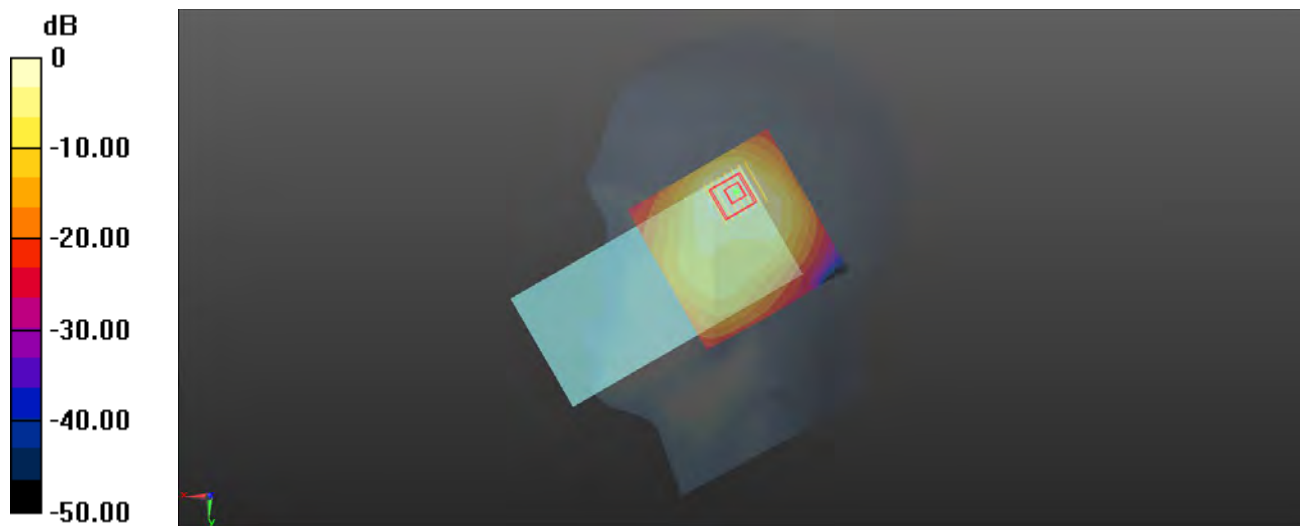
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.51 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.464 W/kg

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



0 dB = 1.13 W/kg

P03 WCDMA II_RMC12.2K_Right Cheek_Ch9538_Ant4

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.429$; $\rho =$

1000 kg/m^3

Ambient Temperature : 23.5°C ; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1907.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.15 W/kg

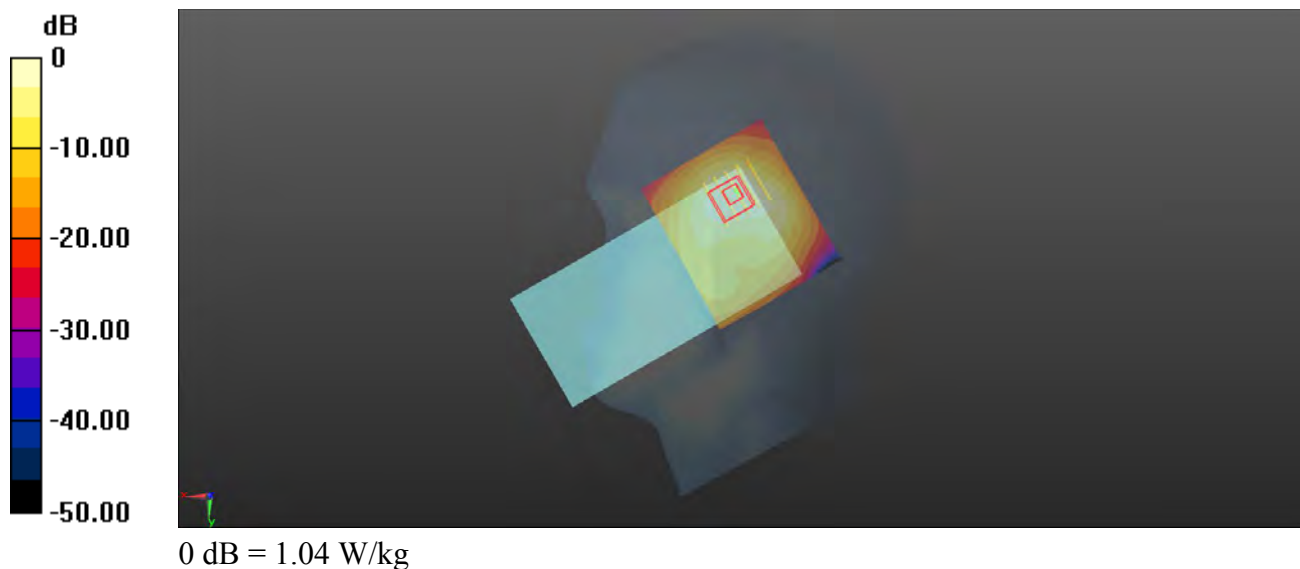
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.52 V/m ; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.747 W/kg ; SAR(10 g) = 0.419 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



P04 WCDMA IV_RMC12.2K_Right Cheek_Ch1513_Ant4

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.424$ S/m; $\epsilon_r = 41.116$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1752.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.22 W/kg

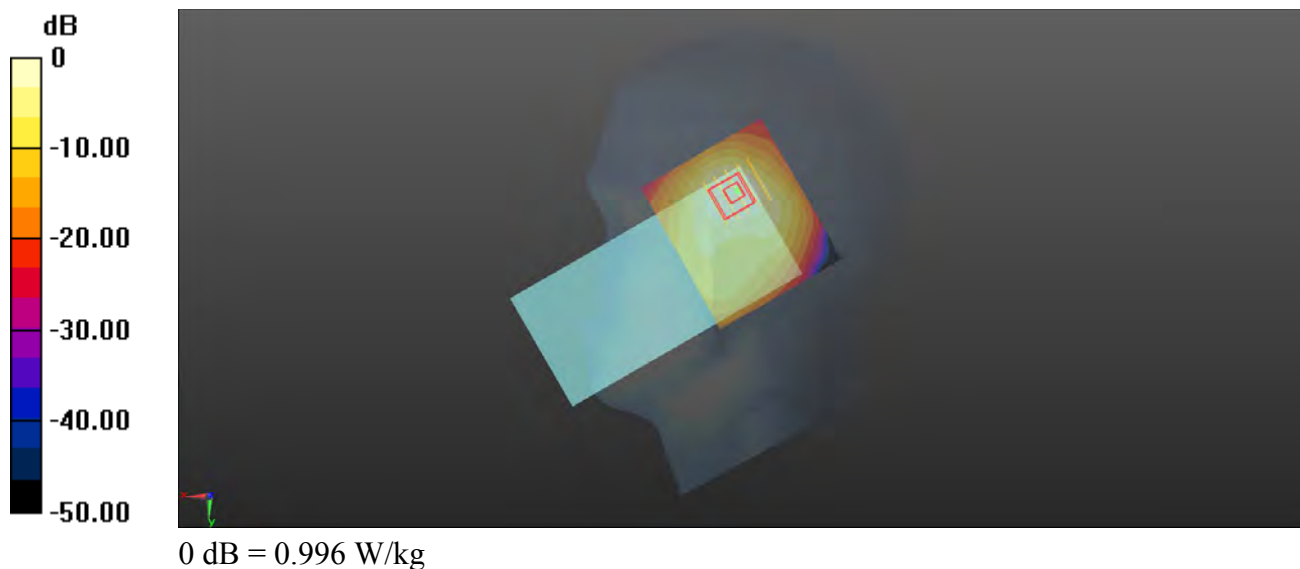
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.87 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.718 W/kg; SAR(10 g) = 0.411 W/kg

Maximum value of SAR (measured) = 0.996 W/kg



P05 WCDMA V_RMC12.2K_Left Cheek_Ch4132_Ant4

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL835_0313 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.935$ S/m; $\epsilon_r = 43.408$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 826.4 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.979 W/kg

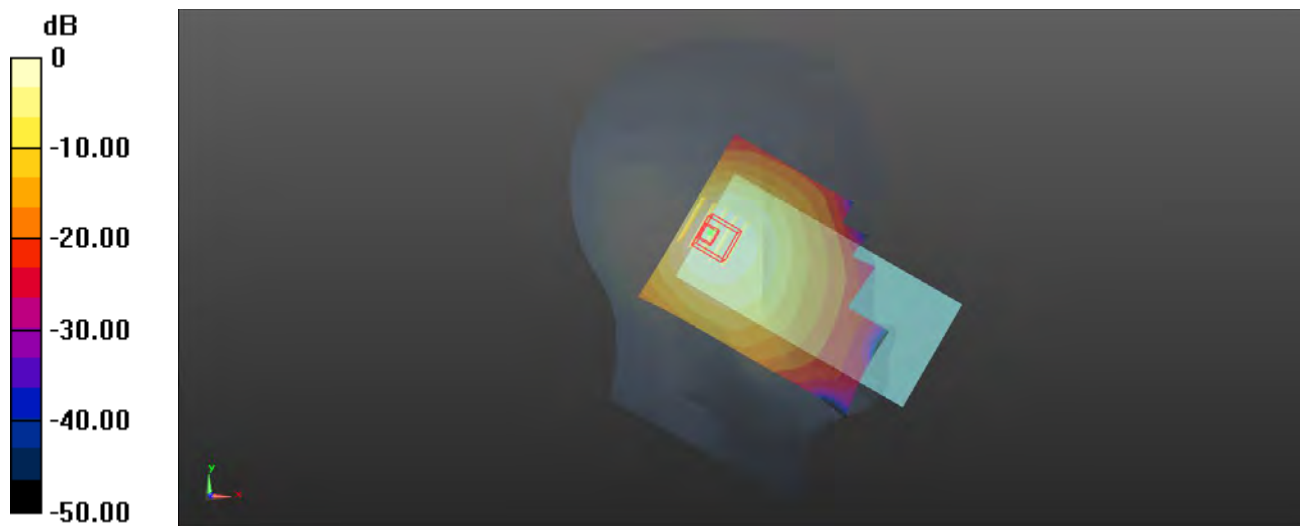
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.06 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.734 W/kg; SAR(10 g) = 0.447 W/kg

Maximum value of SAR (measured) = 0.885 W/kg



0 dB = 0.885 W/kg

P06 LTE 2_QPSK20M_Right Cheek_Ch19100_50RB_OS0_Ant4

Communication System: LTE_FDD; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.438$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

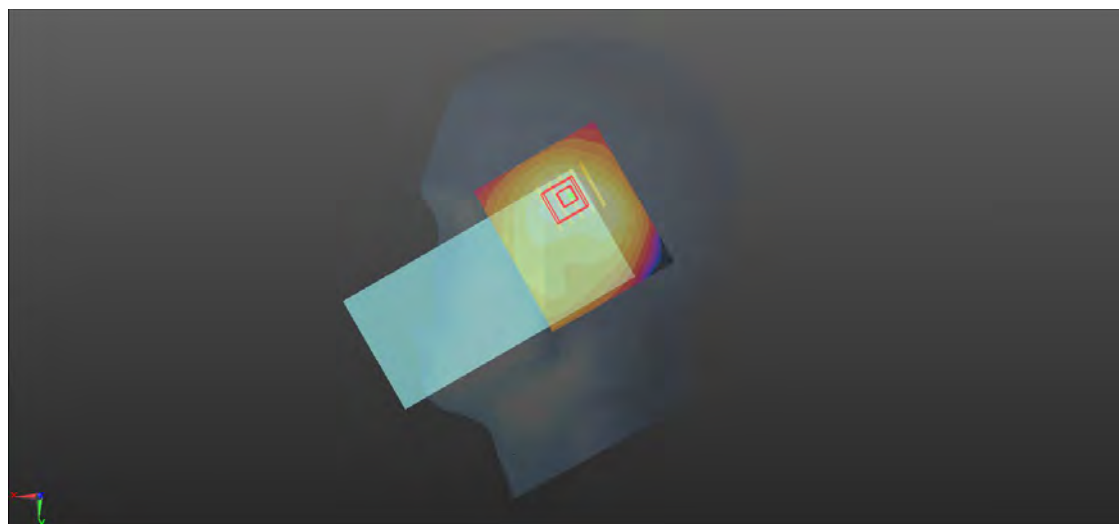
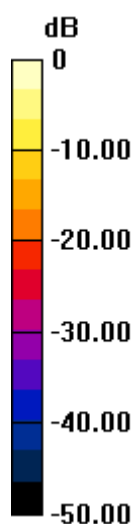
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.67 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.434 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg

P07 LTE 7_QPSK20M_Right Tilted_Ch20850_1RB_OS50_Ant4

Communication System: LTE_FDD; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600_0322 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 39.288$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2510 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (101x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.32 W/kg

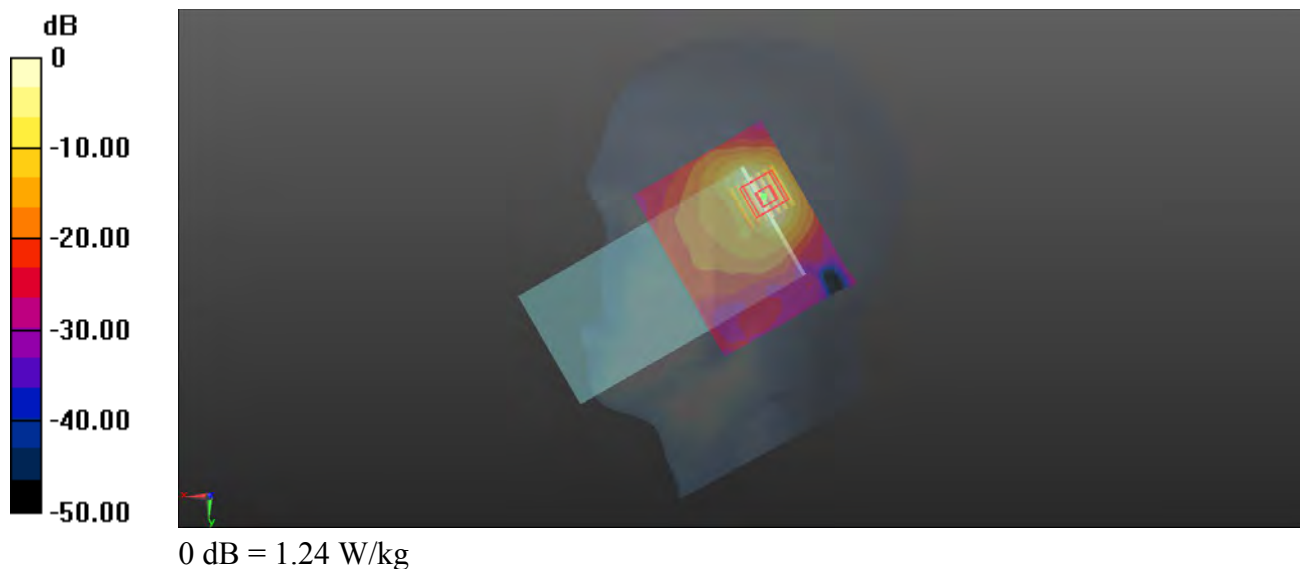
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.670 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.334 W/kg

Maximum value of SAR (measured) = 1.24 W/kg



P08 LTE 12_QPSK10M_Right Cheek_Ch23060_1RB_OS24_Ant4

Communication System: LTE_FDD; Frequency: 704 MHz; Duty Cycle: 1:1

Medium: HSL750_0311 Medium parameters used: $f = 704$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 43.688$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.59, 9.59, 9.59) @ 704 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.819 W/kg

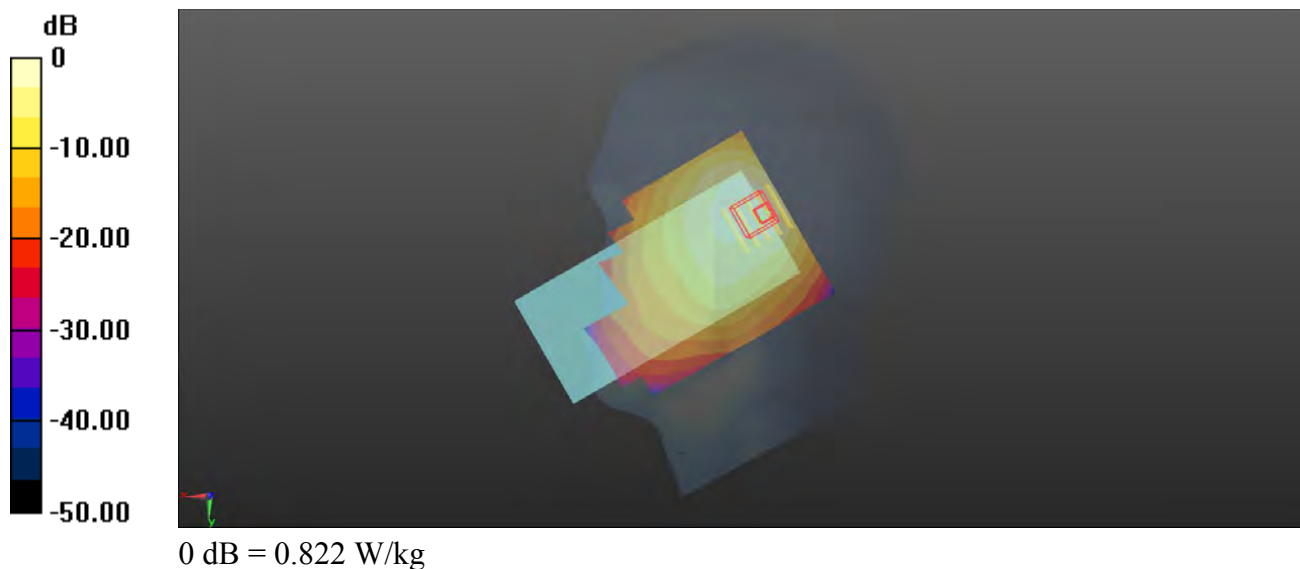
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 29.27 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.366 W/kg

Maximum value of SAR (measured) = 0.822 W/kg



P09 LTE 13_QPSK10M_Left Cheek_Ch23230_1RB_OS24_Ant4

Communication System: LTE_FDD; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_0311 Medium parameters used: $f = 782$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 43.44$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.59, 9.59, 9.59) @ 782 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.834 W/kg

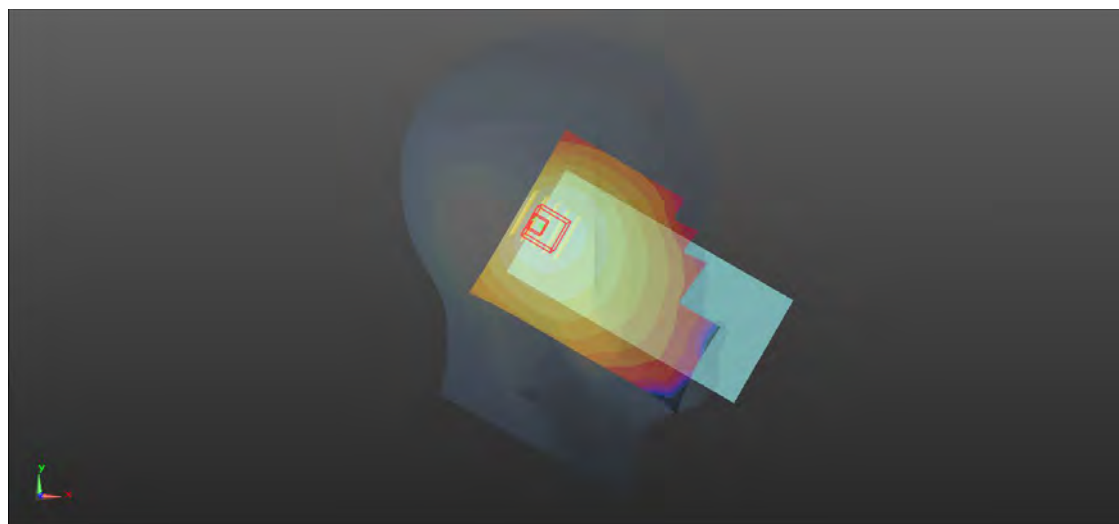
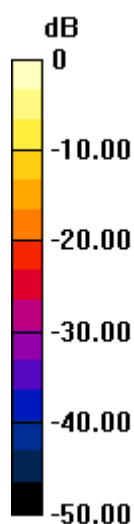
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.14 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.364 W/kg

Maximum value of SAR (measured) = 0.754 W/kg



0 dB = 0.754 W/kg

P10 LTE 26_QPSK15M_Right Cheek_Ch26865_1RB_OS37_Ant4

Communication System: LTE_FDD; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0313 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 43.363$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 831.5 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.953 W/kg

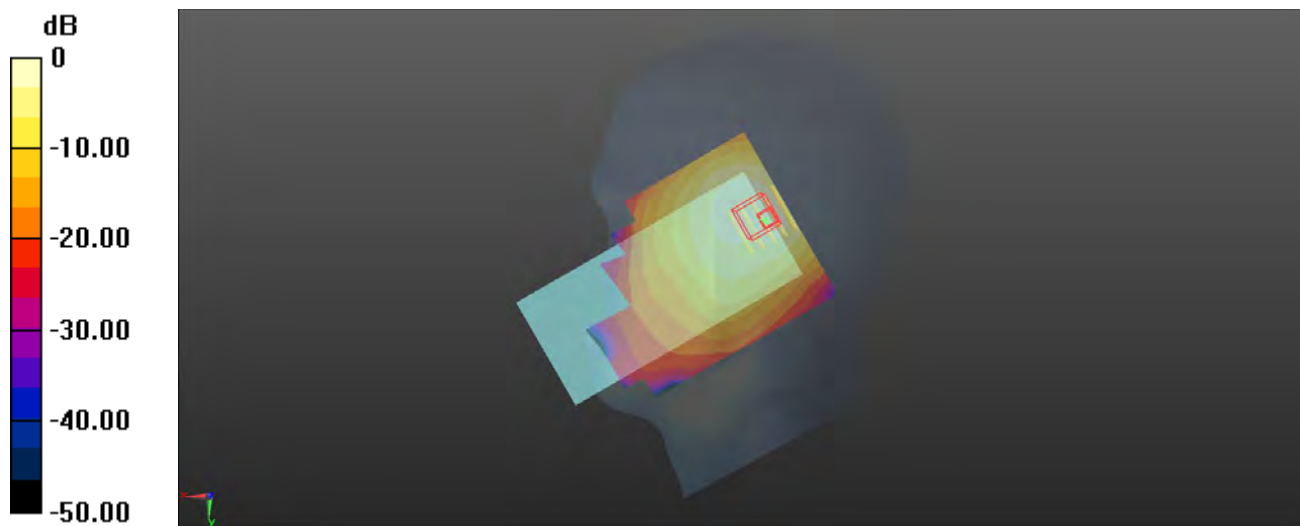
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.15 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.707 W/kg; SAR(10 g) = 0.386 W/kg

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



0 dB = 0.857 W/kg

P11 LTE 38_QPSK20M_Right Tilted_Ch37850_100RB_OS0_Ant4

Communication System: LTE_TDD; Frequency: 2580 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0322 Medium parameters used: $f = 2580$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39.193$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2580 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (101x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.906 W/kg

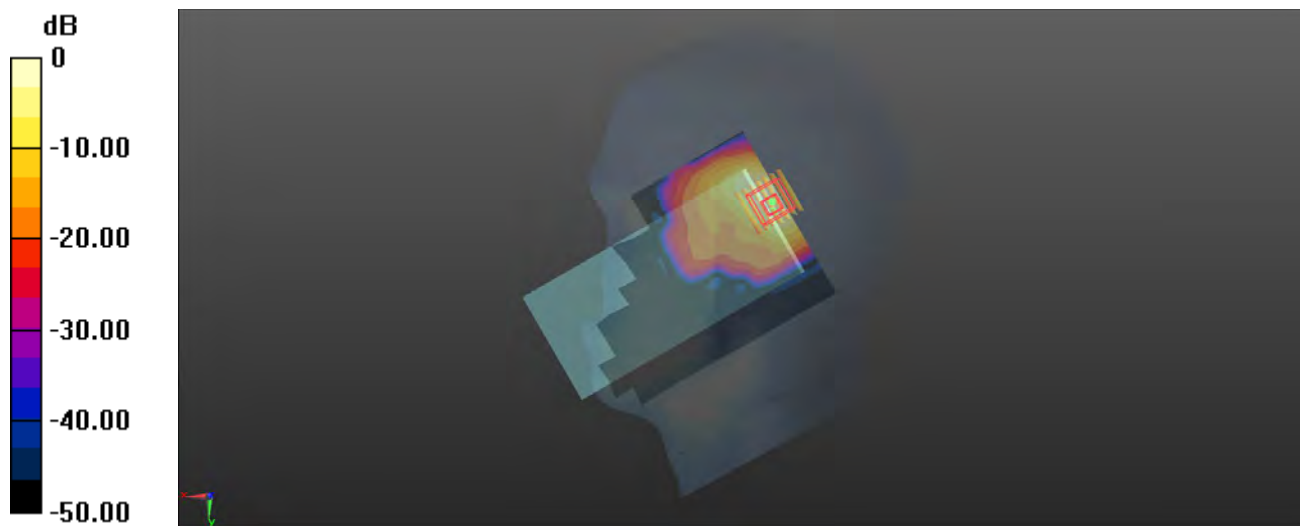
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.561 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.758 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

P12 LTE 41_QPSK20M_Right Tilted_Ch39750_50RB_OS25_Ant4

Communication System: LTE_TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0323 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 39.158$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2506 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

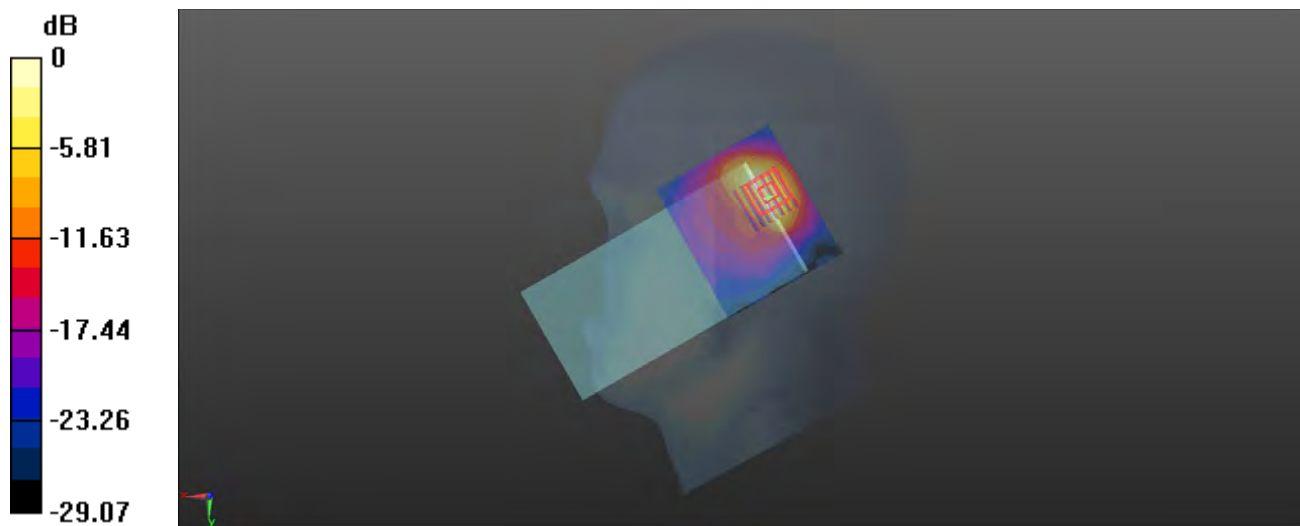
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.462 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 1.24 W/kg

P13 LTE 66_QPSK20M_Right Cheek_Ch132572_50RB_OS25_Ant4

Communication System: LTE_FDD; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 41.078$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1770 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

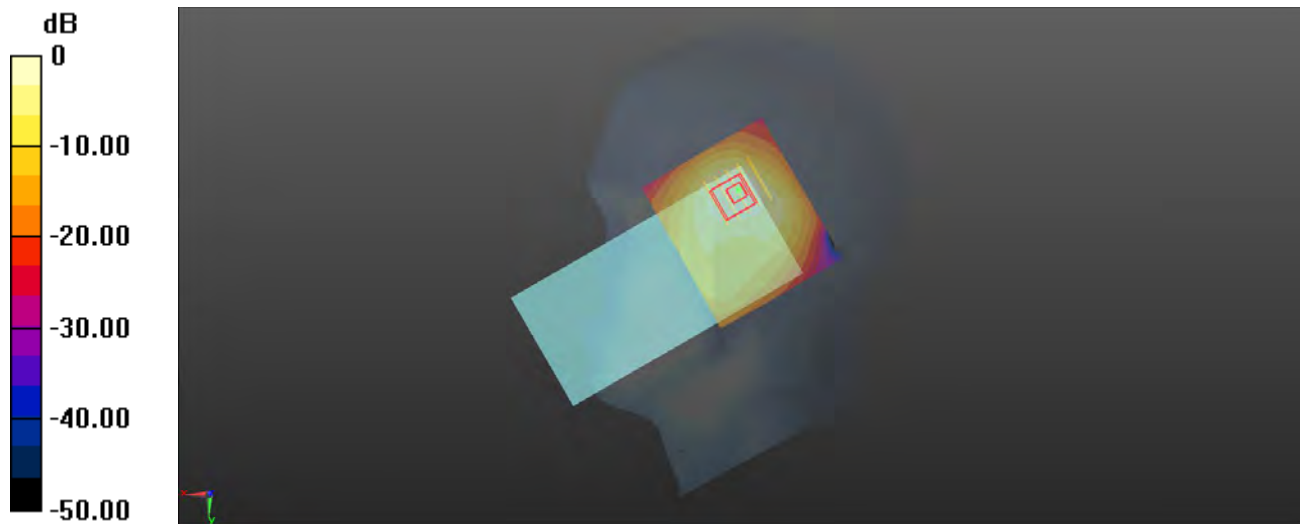
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.86 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.418 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg

P14 WLAN2.4G_802.11b_Left Cheek_Ch6_Ant6

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_0316 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.808$ S/m; $\epsilon_r = 39.392$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.59, 7.59, 7.59) @ 2437 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.407 W/kg

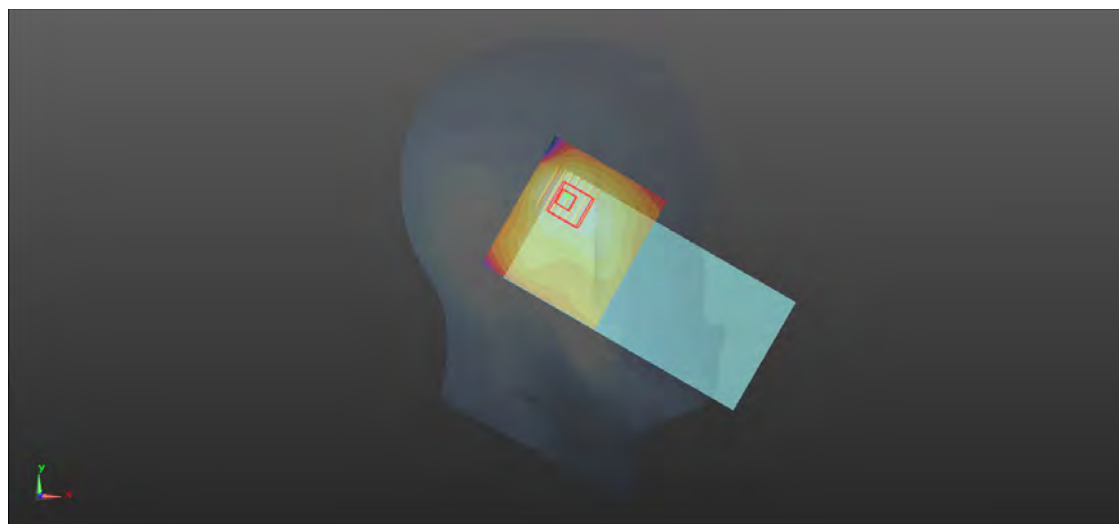
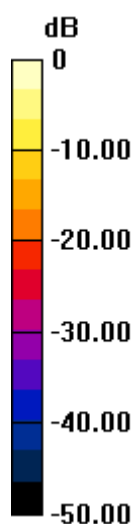
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.499 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.364 W/kg



0 dB = 0.364 W/kg

P15 WLAN5G_802.11a_Left Tilted_Ch64_Ant6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.684$ S/m; $\epsilon_r = 35.994$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.75, 4.75, 4.75) @ 5320 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.538 W/kg

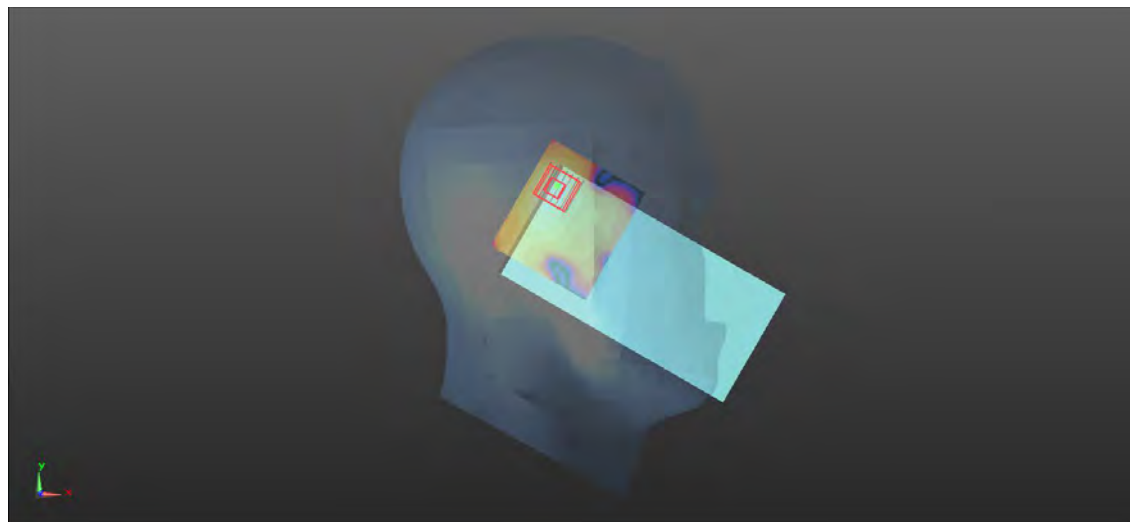
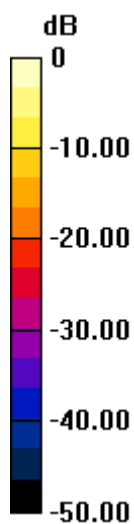
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.868 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.594 W/kg



0 dB = 0.594 W/kg

P16 WLAN5G_802.11a_Left Tilted_Ch100_Ant6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.898$ S/m; $\epsilon_r = 35.73$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.47, 4.47, 4.47) @ 5500 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (91x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.641 W/kg

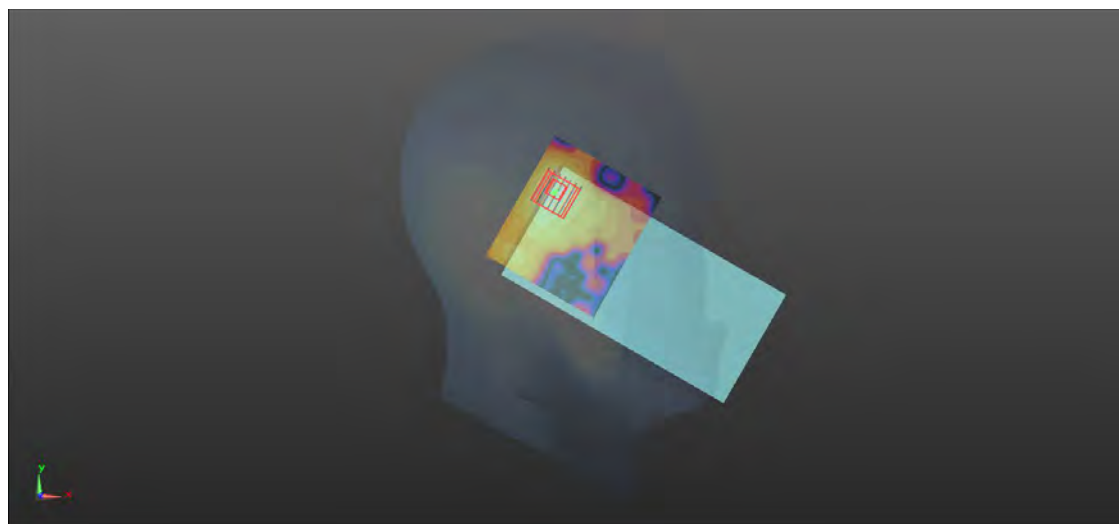
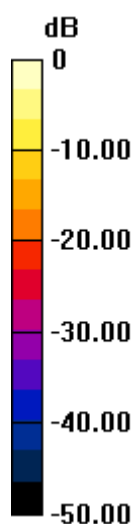
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.252 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.666 W/kg



0 dB = 0.666 W/kg

P17 WLAN5G_802.11a_Left Tilted_Ch157_Ant6

Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5785$ MHz; $\sigma = 5.184$ S/m; $\epsilon_r = 35.242$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.48, 4.48, 4.48) @ 5785 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (91x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.622 W/kg

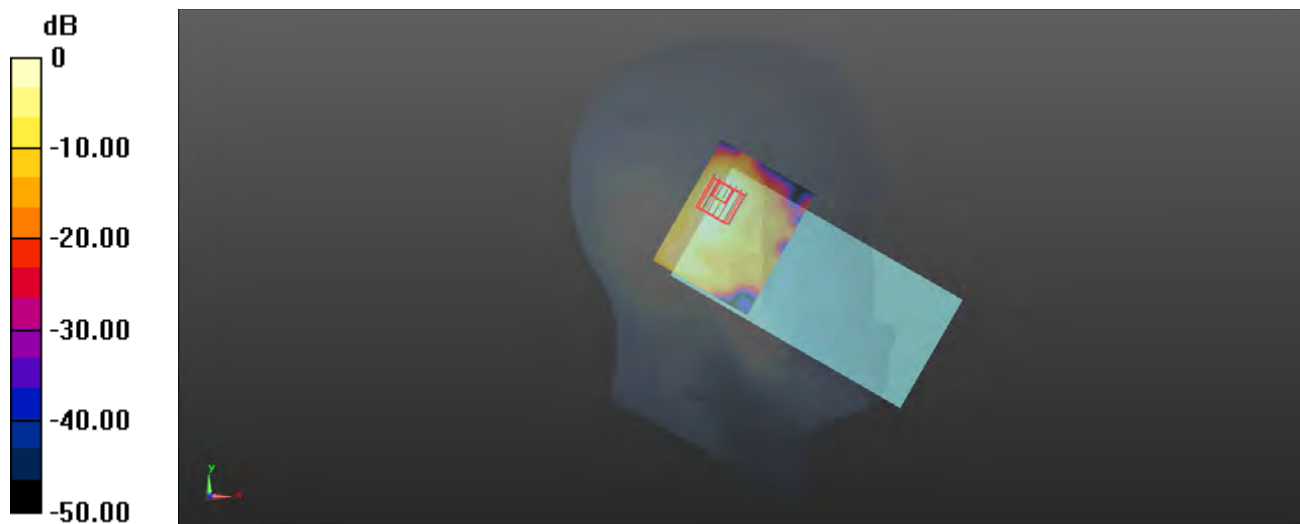
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.734 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.111 W/kg

Maximum value of SAR (measured) = 0.640 W/kg



0 dB = 0.640 W/kg

P18 BT_GFSK_Left Cheek_Ch78_Ant6

Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.30

Medium: HSL2450_0316 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.844$ S/m; $\epsilon_r = 39.343$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.59, 7.59, 7.59) @ 2480 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.142 W/kg

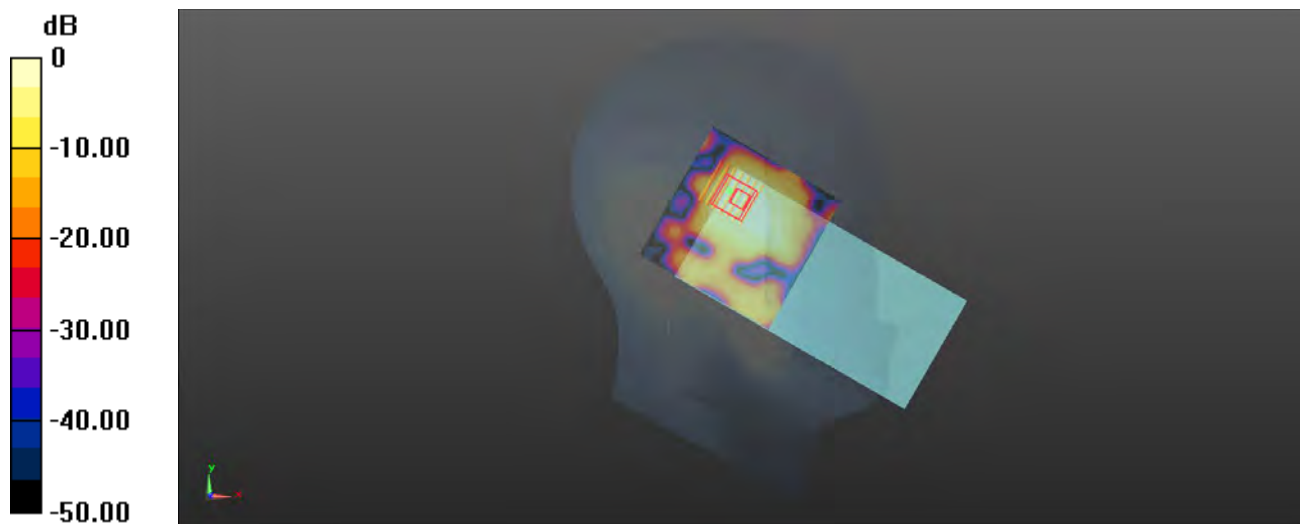
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.297 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.147 W/kg

SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.037 W/kg

Maximum value of SAR (measured) = 0.112 W/kg



0 dB = 0.112 W/kg

P19 GSM850_GPRS(4Tx-slot)_Rear Face_1cm_Ch251_Ant0

Communication System: GPRS(4Tx-slot); Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium: HSL835_0312 Medium parameters used: $f = 849$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 43.222$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 848.8 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.720 W/kg

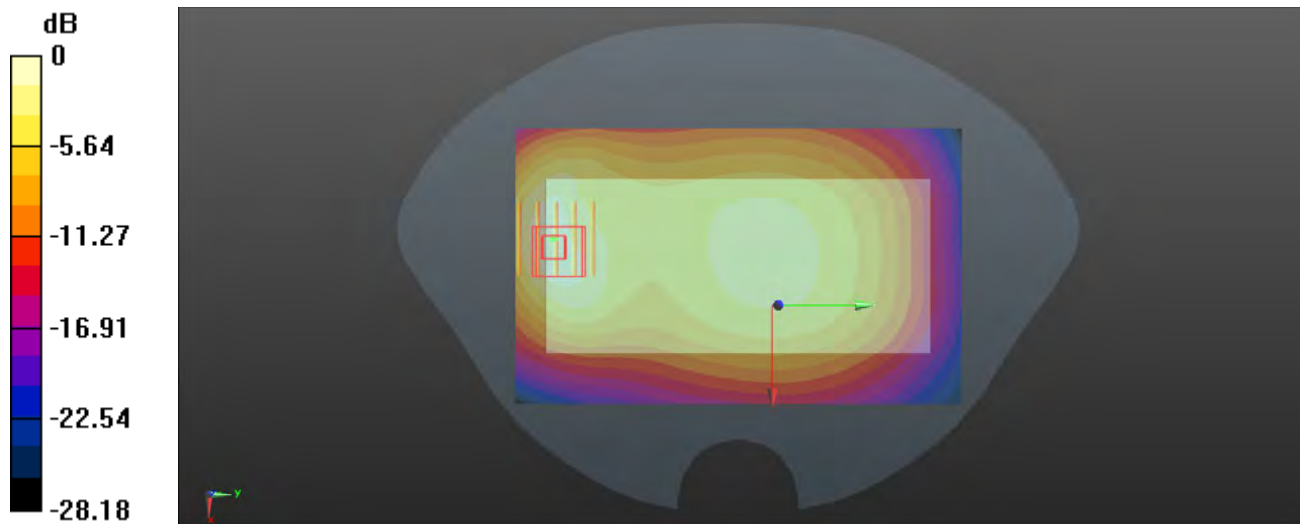
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.77 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.982 W/kg

SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 0.738 W/kg



0 dB = 0.738 W/kg

P20 GSM1900_GPRS 4Tx slot_Rear Face_1cm_Ch512_Ant4

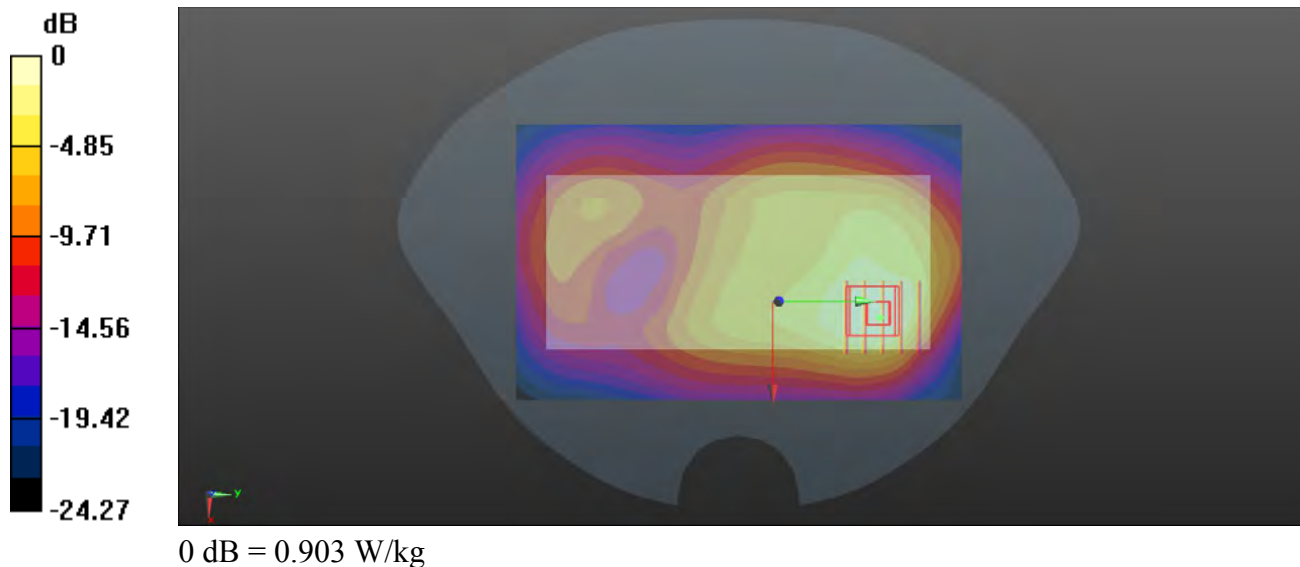
Communication System: GPRS(4Tx-slot); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08
Medium: HSL1900_0312 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 40.475$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1850.2 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.945 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.56 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.378 W/kg
Maximum value of SAR (measured) = 0.903 W/kg



P21 WCDMA II_RMC12.2K_Rear Face_1cm_Ch9538_Ant4

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.429$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1907.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

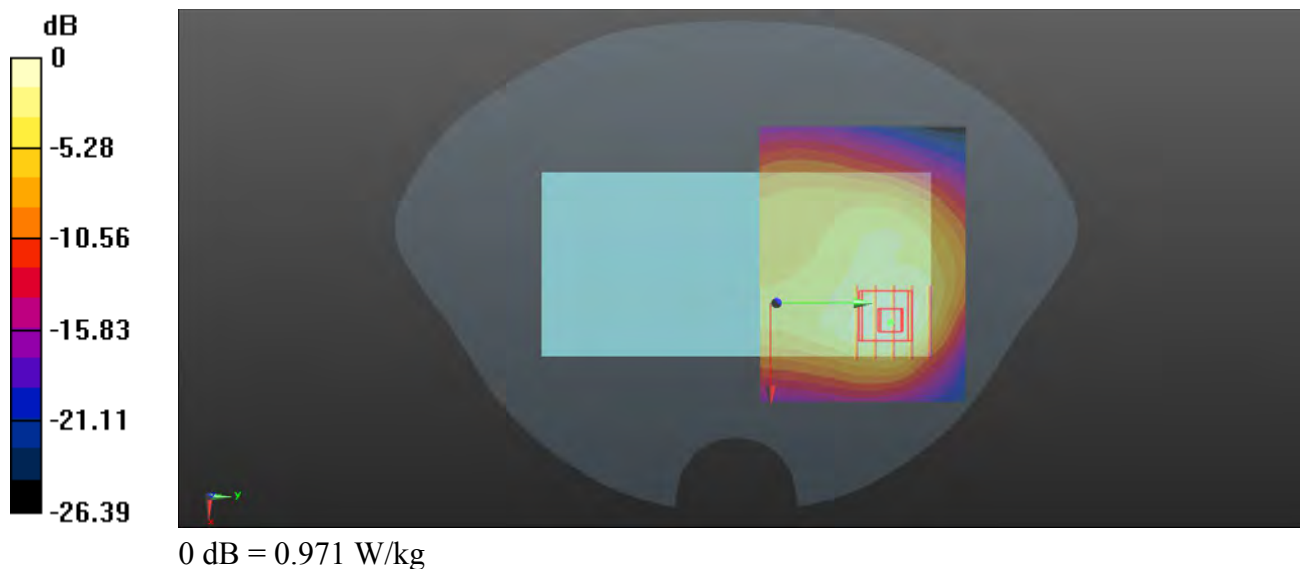
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.23 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.394 W/kg

Maximum value of SAR (measured) = 0.971 W/kg



P22 WCDMA IV_RMC12.2K_Rear Face_1.5cm_Ch1413_Ant0

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1733$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 41.142$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1732.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

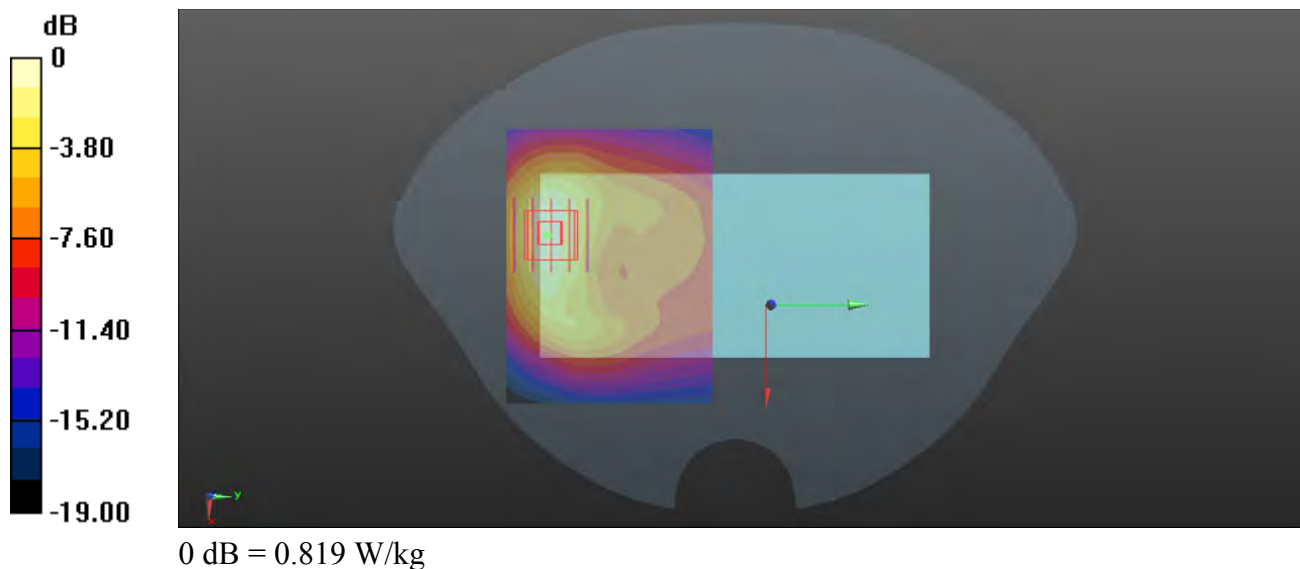
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.182 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.986 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.362 W/kg

Maximum value of SAR (measured) = 0.819 W/kg



P23 WCDMA V_RMC 12.2K_Rear Face_1cm_Ch4233_Ant0

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL835_0313 Medium parameters used: $f = 847$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 43.246$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 846.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.503 W/kg

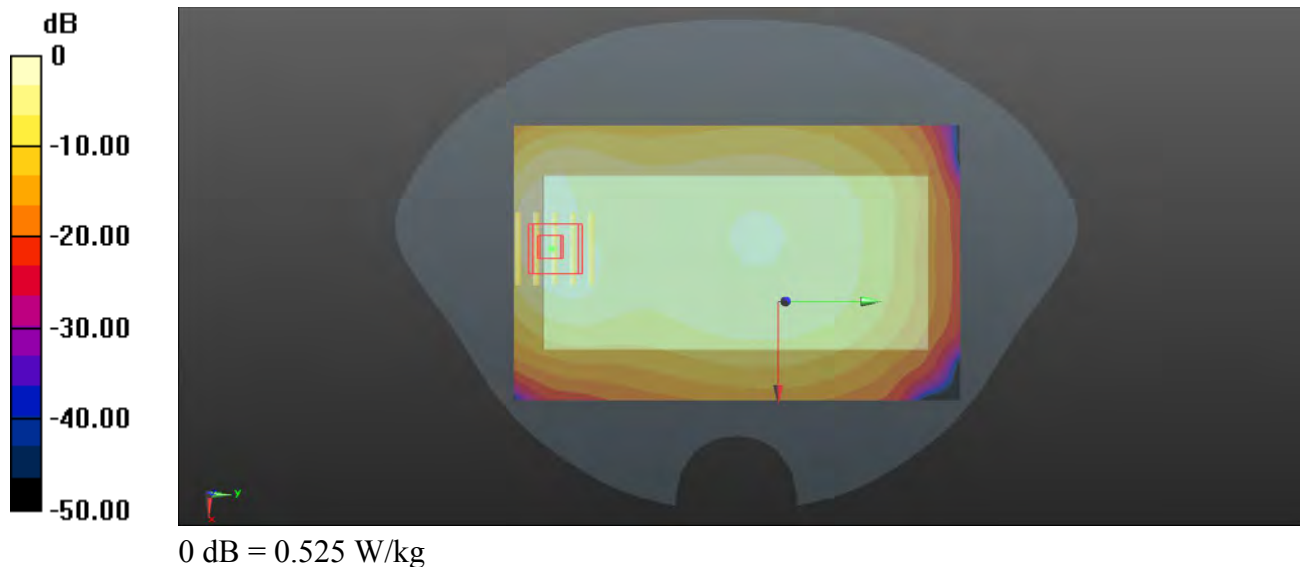
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.20 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 0.525 W/kg



P24 LTE 2_QPSK20M_Rear Face_1cm_Ch19100_1RB_OS50_Ant4

Communication System: LTE_FDD; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.438$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.858 W/kg

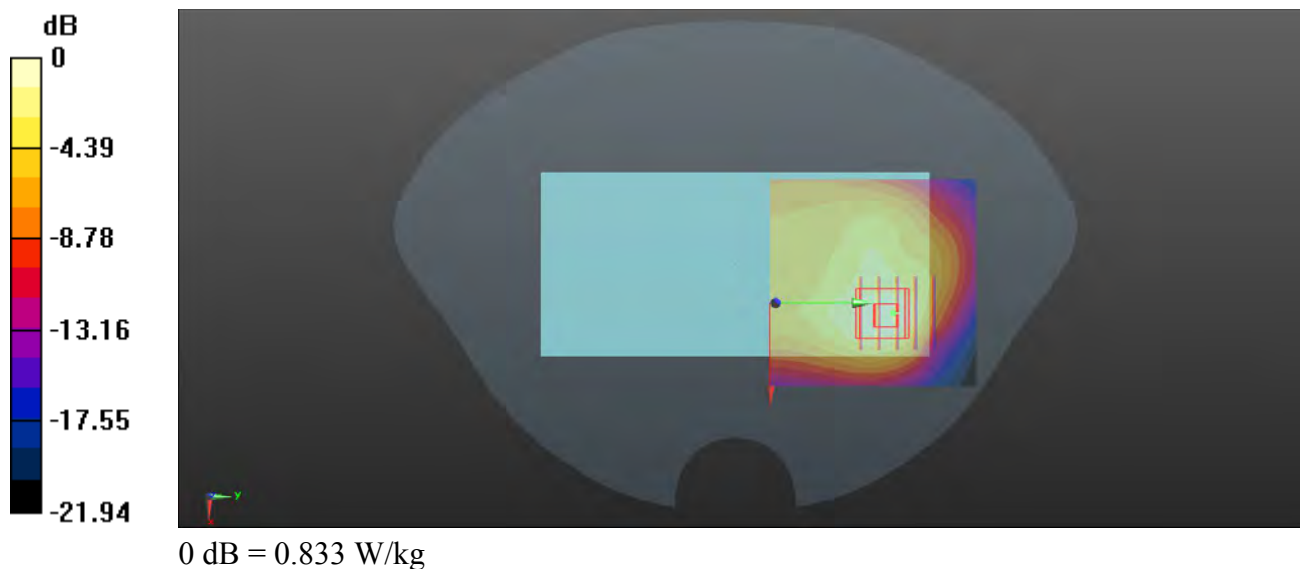
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.82 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 0.833 W/kg



P25 LTE 7_QPSK20M_Front Face_1cm_Ch20850_1RB_OS50_Ant0

Communication System: LTE_FDD; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600_0322 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 39.288$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2510 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (101x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

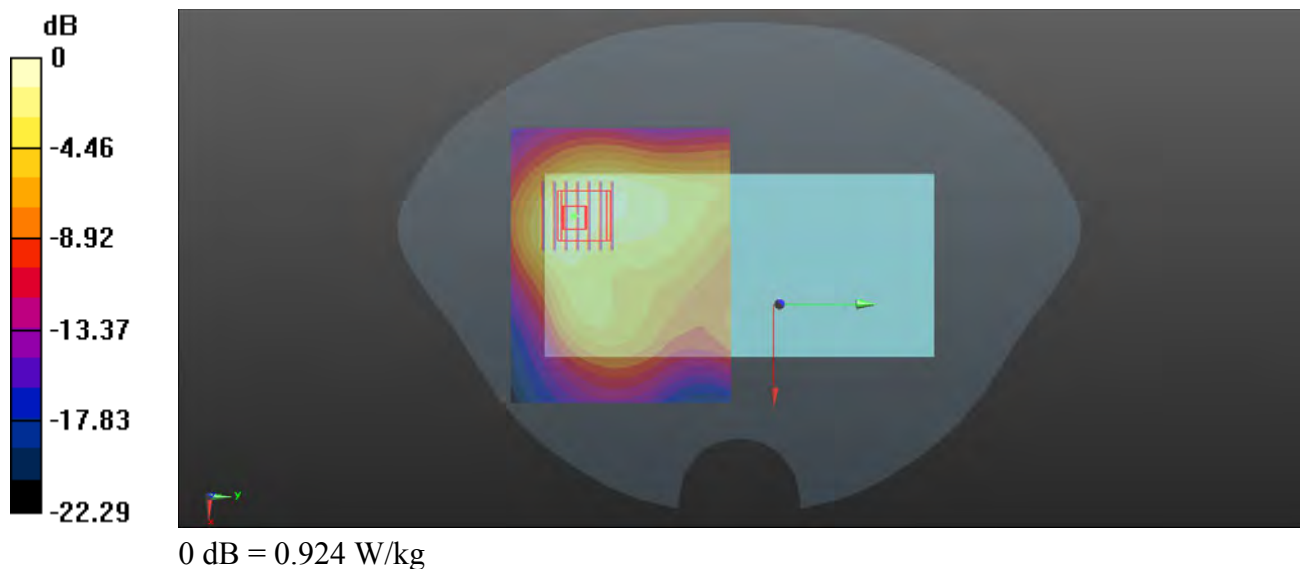
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.853 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (measured) = 0.924 W/kg



P26 LTE 12_QPSK10M_Rear Face_1cm_Ch23130_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: HSL750_0311 Medium parameters used: $f = 711$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 43.678$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.59, 9.59, 9.59) @ 711 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.277 W/kg

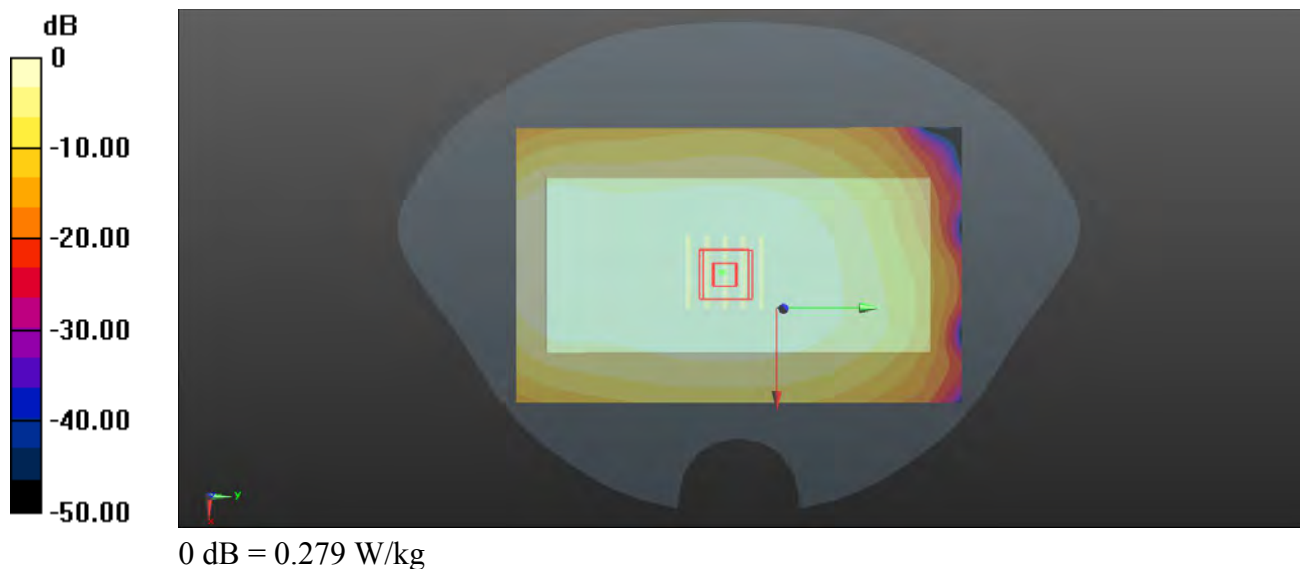
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.64 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.193 W/kg

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



P27 LTE 13_QPSK10M_Rear Face_1cm_Ch23230_1RB_OS24_Ant4

Communication System: LTE_FDD; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_0311 Medium parameters used: $f = 782$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 43.44$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.59, 9.59, 9.59) @ 782 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.374 W/kg

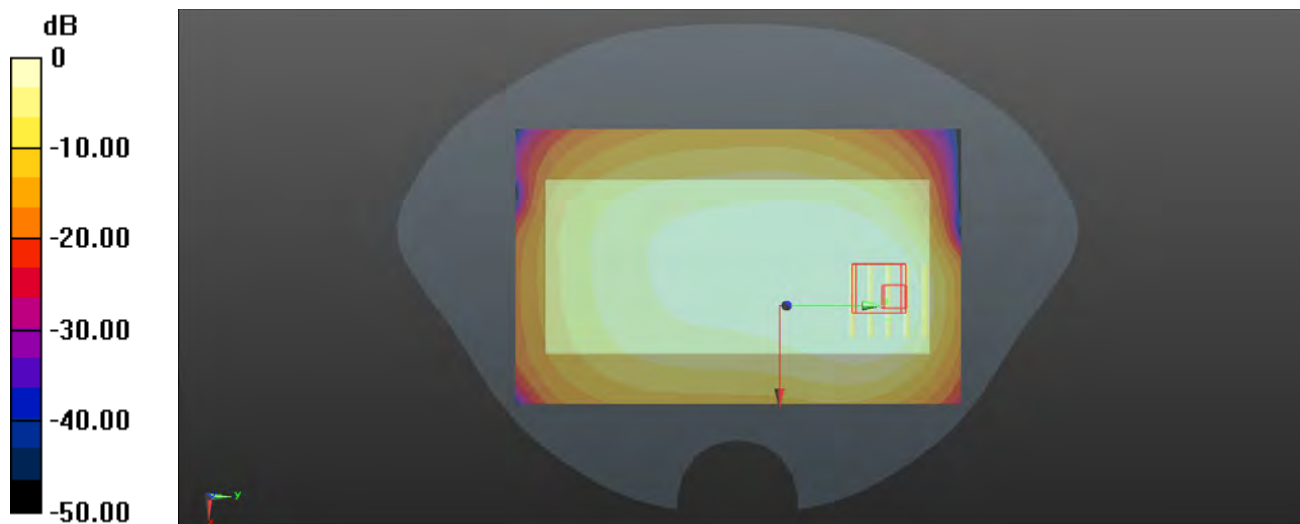
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.95 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.332 W/kg



0 dB = 0.332 W/kg

P28 LTE 26_QPSK15M_Rear Face_1cm_Ch26865_1RB_OS37_Ant0

Communication System: LTE_FDD; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0313 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 43.363$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 831.5 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.497 W/kg

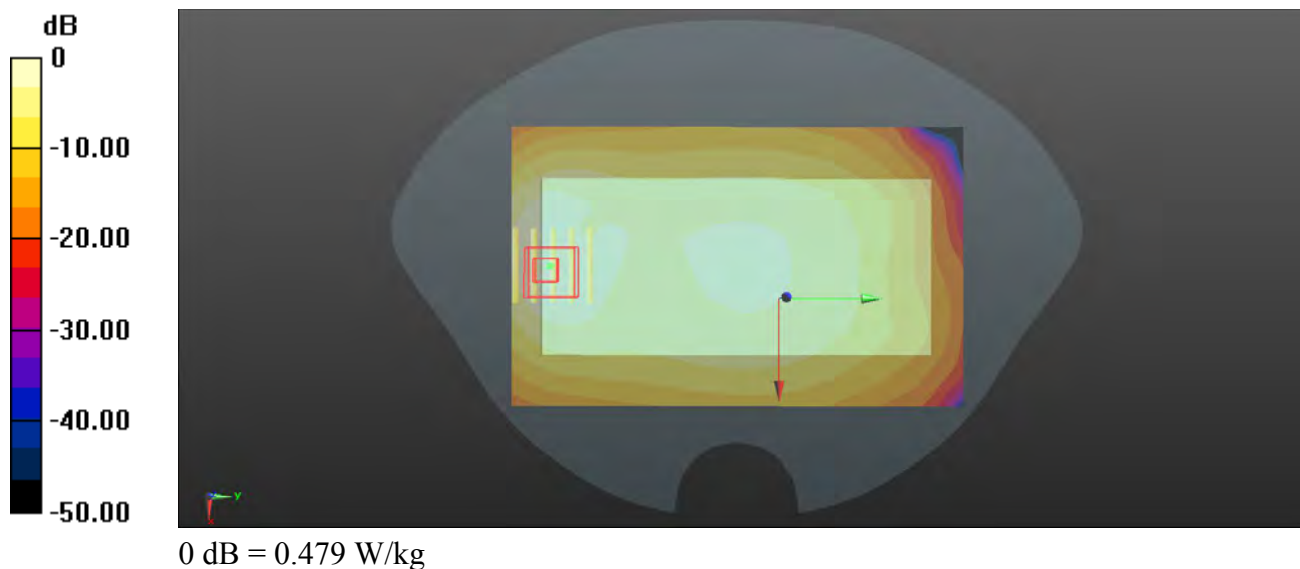
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.65 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.629 W/kg

SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.479 W/kg



P29 LTE 38_QPSK20M_Front Face_1cm_Ch37850_1RB_OS50_Ant0

Communication System: LTE_TDD; Frequency: 2580 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0322 Medium parameters used: $f = 2580$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39.193$; $\rho =$

1000 kg/m^3
Ambient Temperature : 23.6°C ; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2580 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.726 W/kg

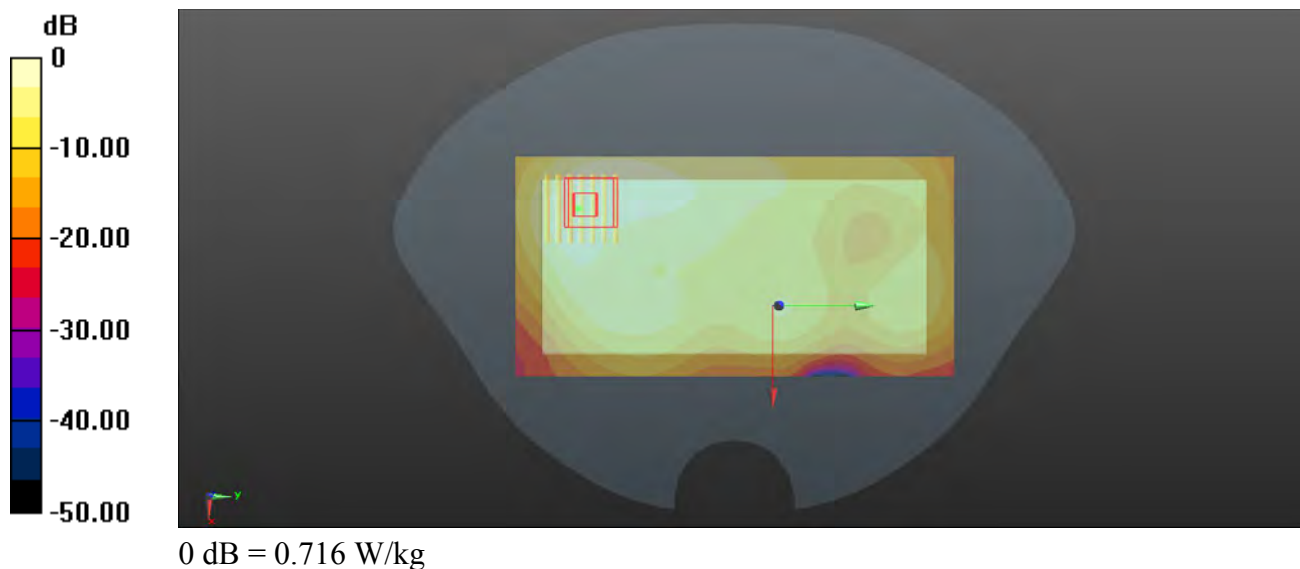
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.061 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.506 W/kg ; SAR(10 g) = 0.280 W/kg

Maximum value of SAR (measured) = 0.716 W/kg



P30 LTE 41_QPSK20M_Front Face_1cm_Ch39750_1RB_OS50_Ant0

Communication System: LTE_TDD; Frequency: 2506 MHz; Duty Cycle: 1:1

Medium: HSL2600_0323 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 39.158$; $\rho =$

1000 kg/m^3

Ambient Temperature : 23.7°C ; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2506 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.768 W/kg

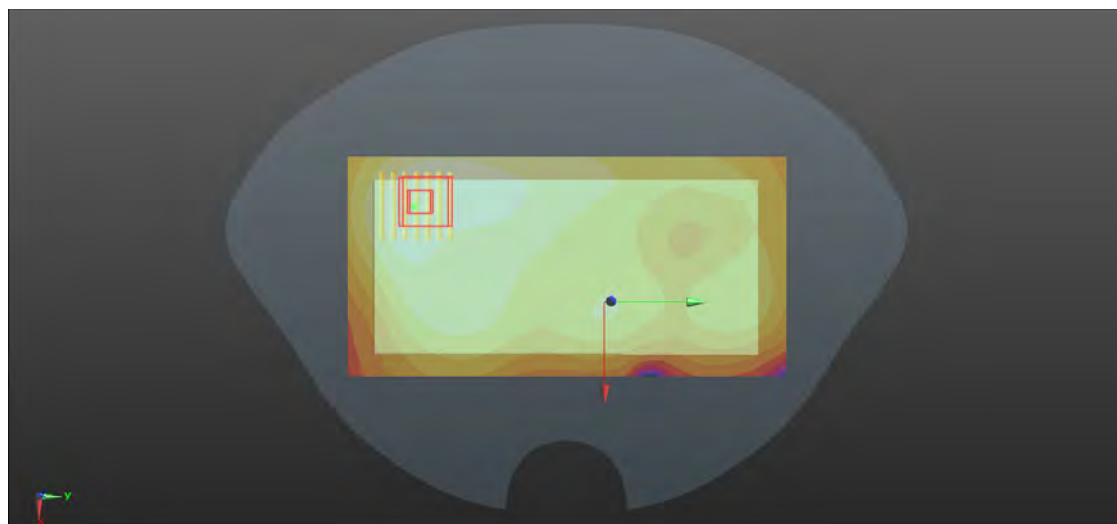
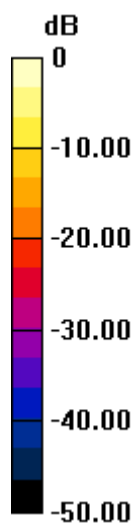
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.842 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.985 W/kg

SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.764 W/kg



0 dB = 0.764 W/kg

P31 LTE 66_QPSK20M_Rear Face_1.5cm_Ch132322_1RB_OS50_Ant0

Communication System: LTE_FDD; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 41.132$; $\rho =$

1000 kg/m^3

Ambient Temperature : 23.2°C ; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1745 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.816 W/kg

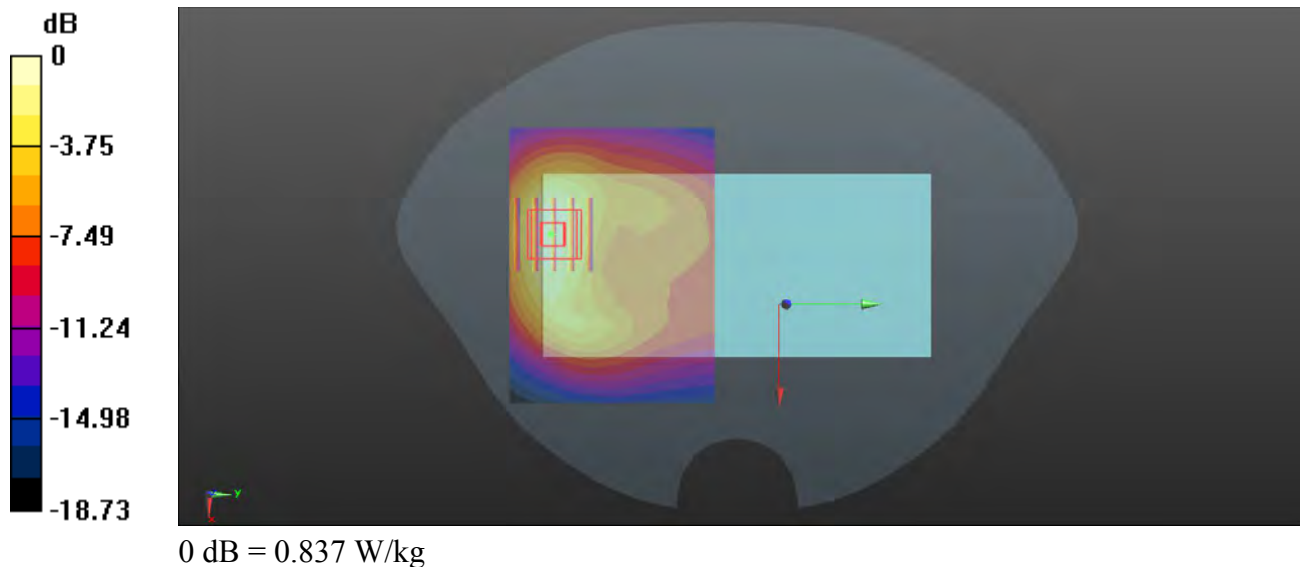
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.435 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.606 W/kg ; SAR(10 g) = 0.370 W/kg

Maximum value of SAR (measured) = 0.837 W/kg



P32 WLAN2.4G_802.11b_Rear Face_1cm_Ch6_Ant6

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_0316 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.808$ S/m; $\epsilon_r = 39.392$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.59, 7.59, 7.59) @ 2437 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.438 W/kg

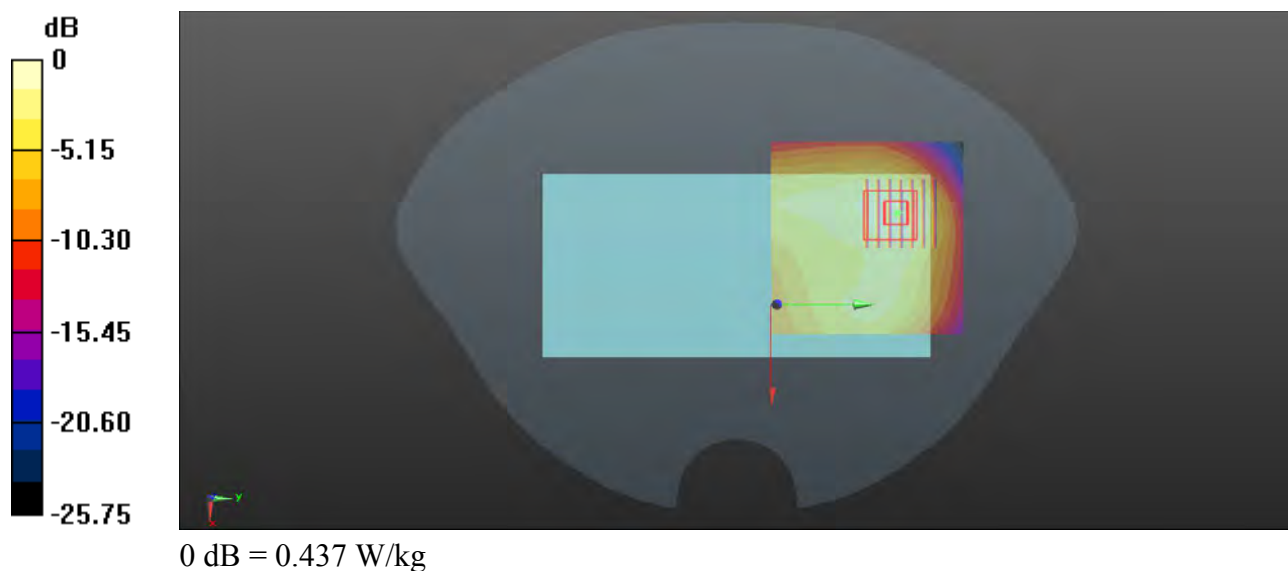
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.380 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.156 W/kg

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



P33 WLAN5G_802.11a_Rear Face_1cm_Ch64_Ant6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.684$ S/m; $\epsilon_r = 35.994$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.75, 4.75, 4.75) @ 5320 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.524 W/kg

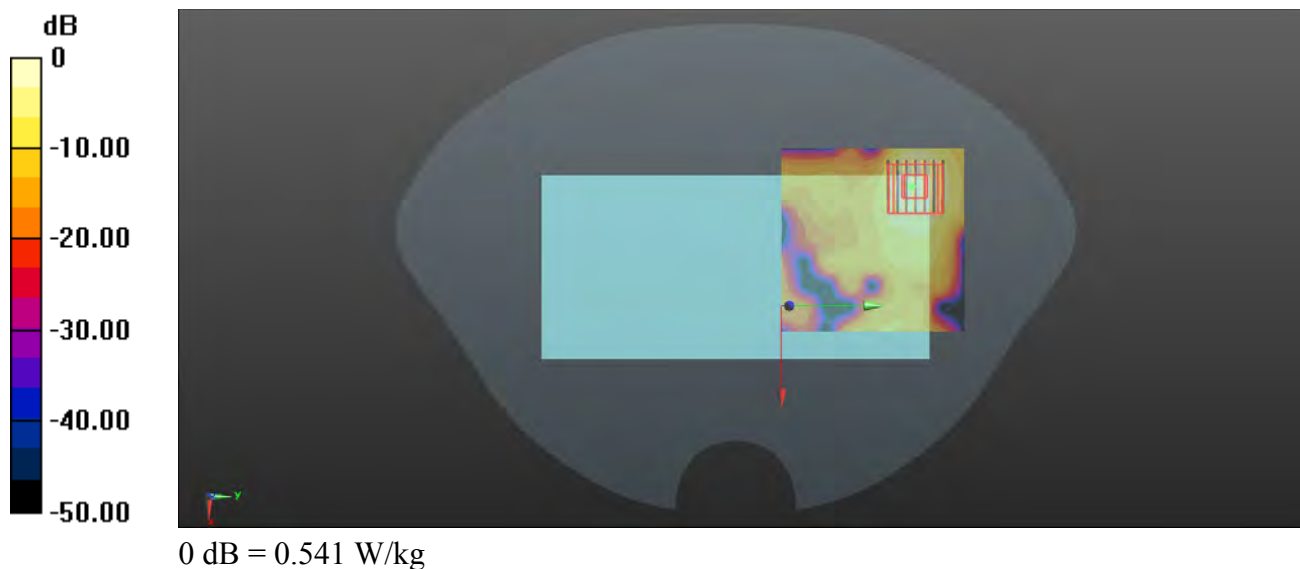
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.091 W/kg

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



P34 WLAN5G_802.11a_Rear Face_1cm_Ch100_Ant6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.898$ S/m; $\epsilon_r = 35.73$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.47, 4.47, 4.47) @ 5500 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

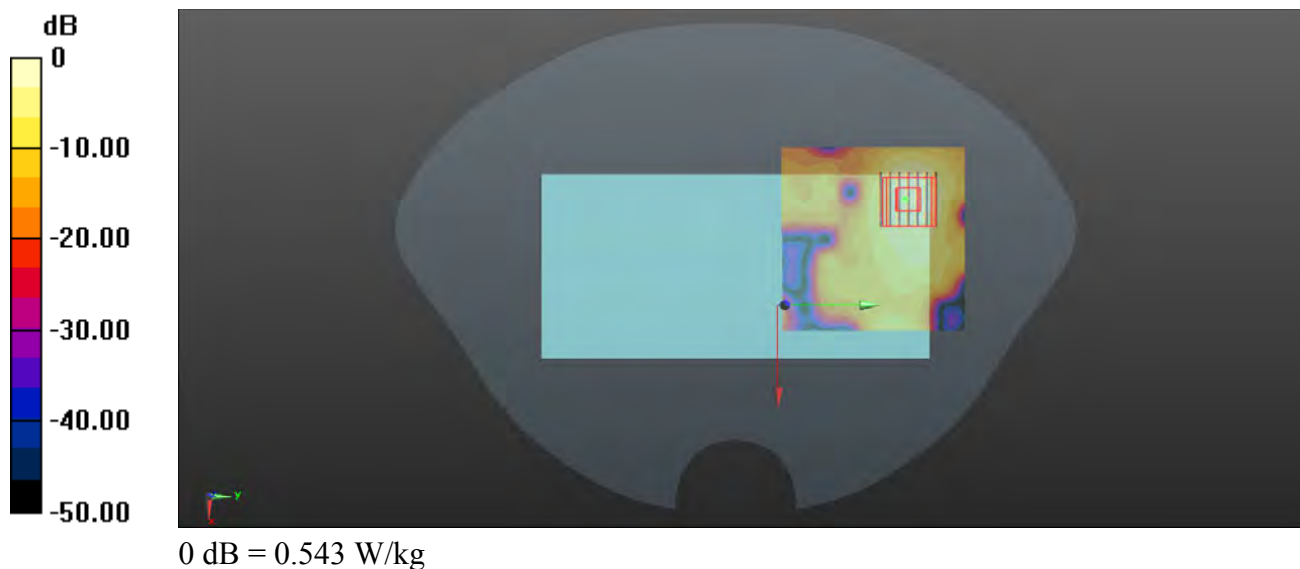
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.543 W/kg



P35 WLAN5G_802.11a_Rear Face_1cm_Ch157_Ant6

Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5785$ MHz; $\sigma = 5.184$ S/m; $\epsilon_r = 35.242$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.48, 4.48, 4.48) @ 5785 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.658 W/kg

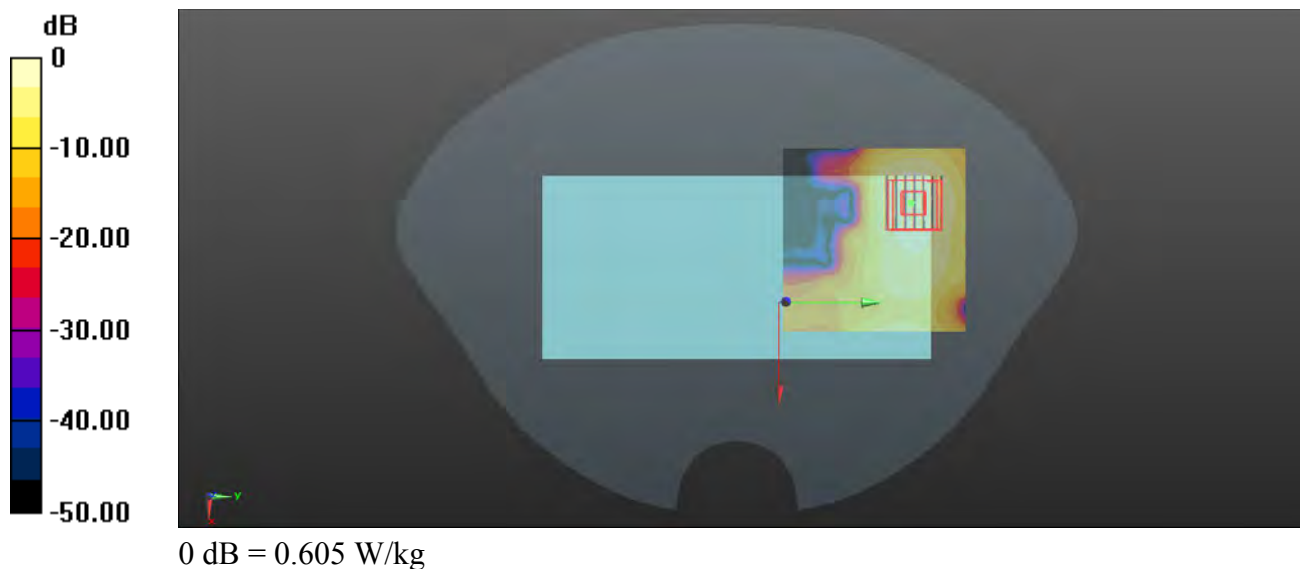
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.605 W/kg



P36 BT_GFSK_Rear Face_1cm_Ch78_Ant6

Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.30

Medium: HSL2450_0316 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.844$ S/m; $\epsilon_r = 39.343$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.59, 7.59, 7.59) @ 2480 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.0447 W/kg

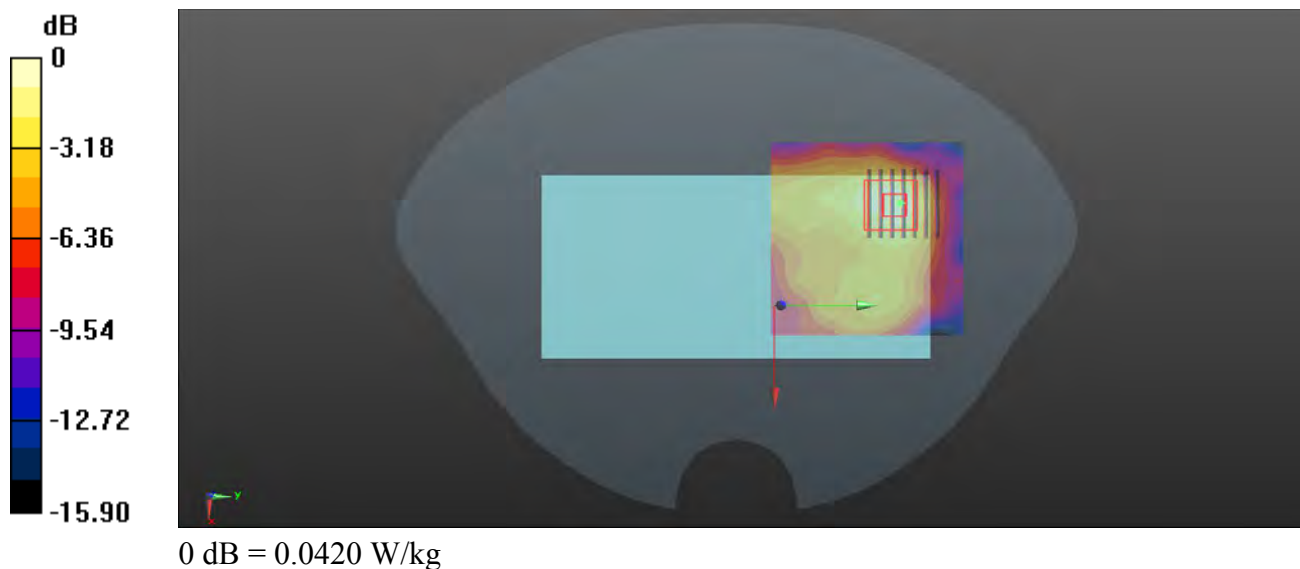
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.111 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0570 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.014 W/kg

Maximum value of SAR (measured) = 0.0420 W/kg



P37 GSM850_GPRS(4Tx-slot)_Rear Face_1cm_Ch251_Ant0

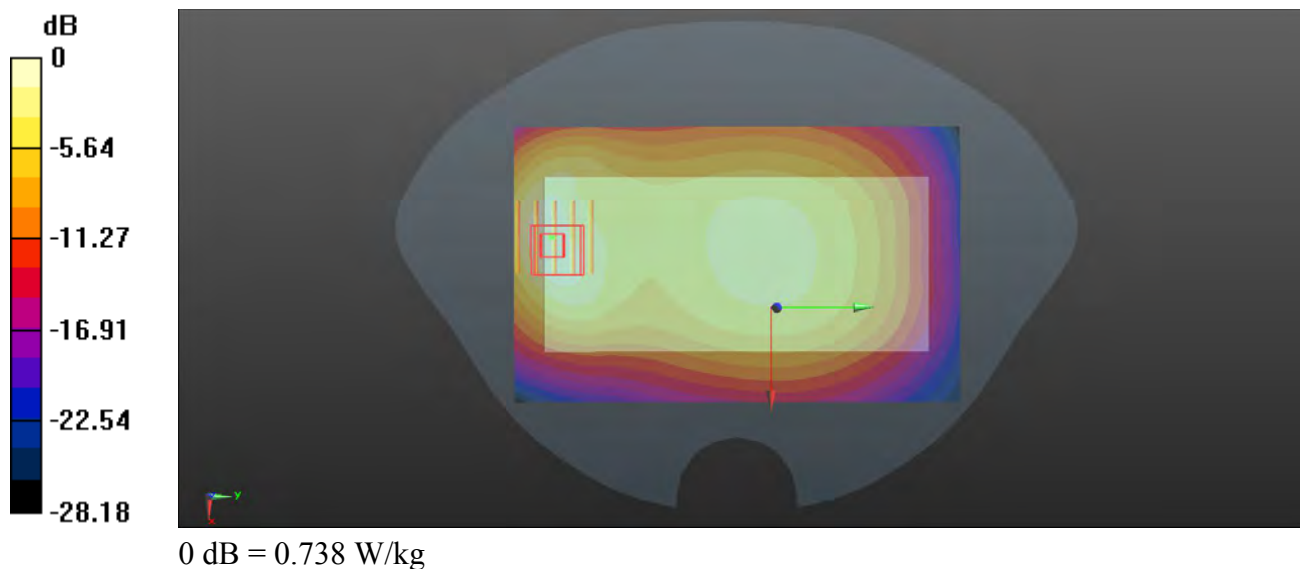
Communication System: GPRS(4Tx-slot); Frequency: 848.8 MHz; Duty Cycle: 1:2.08
Medium: HSL835_0312 Medium parameters used: $f = 849$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 43.222$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 848.8 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.720 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.77 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.982 W/kg
SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.301 W/kg
Maximum value of SAR (measured) = 0.738 W/kg



P38 GSM1900_GPRS(4Tx-slot)_Rear Face_1cm_Ch512_Ant4

Communication System: GPRS(4Tx-slot); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: HSL1900_0312 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 40.475$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1850.2 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.945 W/kg

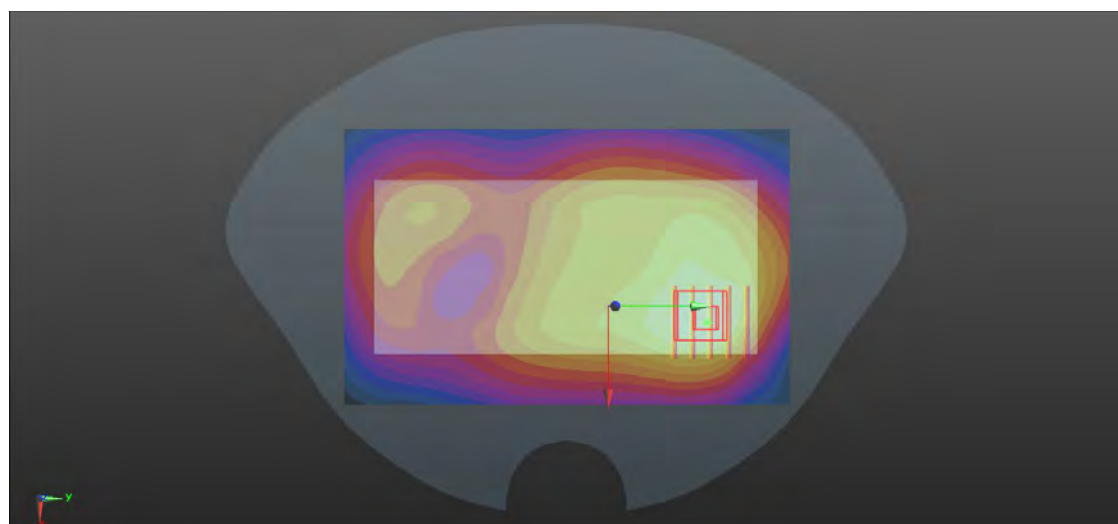
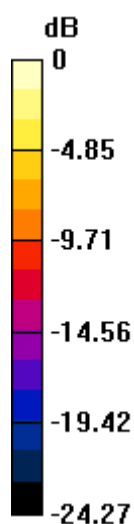
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.56 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 0.903 W/kg



0 dB = 0.903 W/kg

P39 WCDMA II_RMC12.2K_Rear Face_1cm_Ch9538_Ant4

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.429$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1907.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

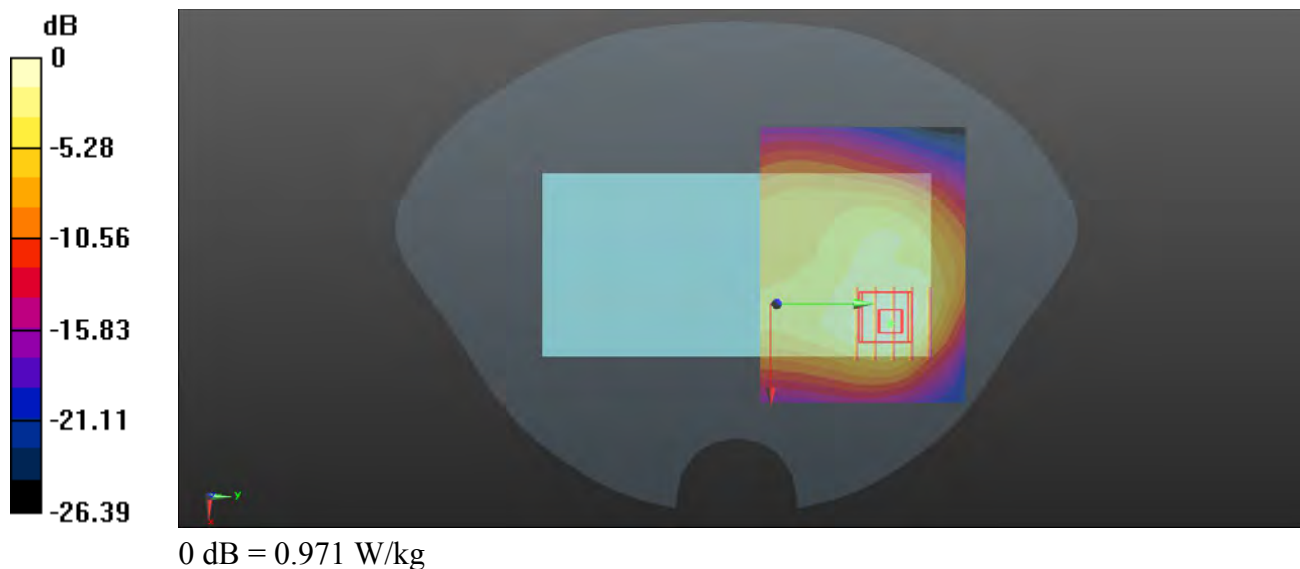
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.23 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.394 W/kg

Maximum value of SAR (measured) = 0.971 W/kg



P40 WCDMA IV_RMC12.2K_Bottom Side_1.5cm_Ch1513_Ant0

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.424$ S/m; $\epsilon_r = 41.116$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1752.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (31x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

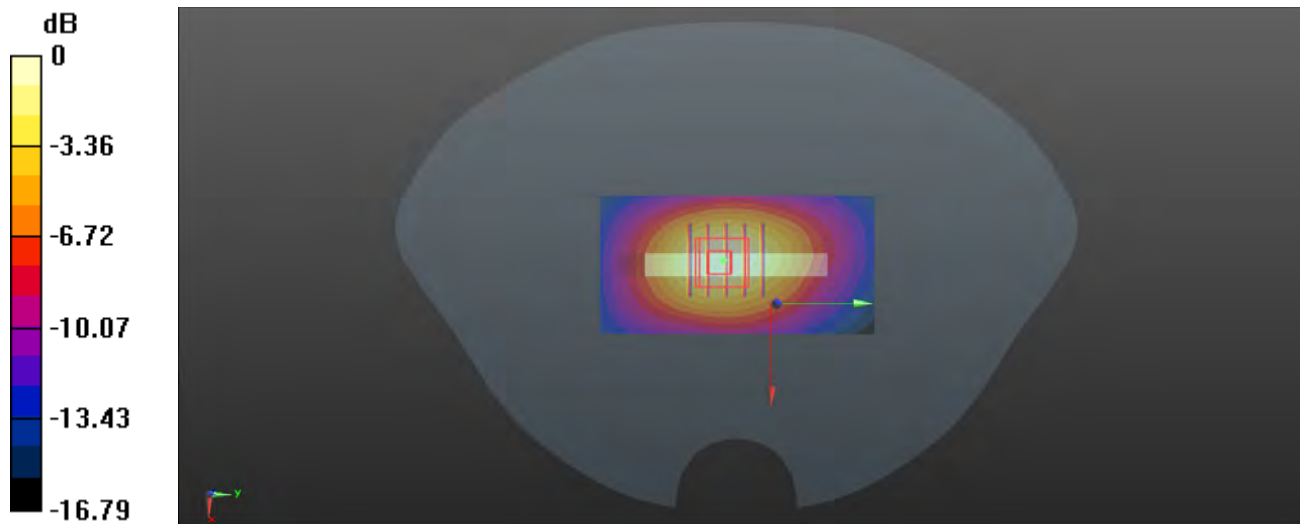
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.69 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.451 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



P41 WCDMA V_RMC 12.2K_Rear Face_1cm_Ch4233_Ant0

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL835_0313 Medium parameters used: $f = 847$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 43.246$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 846.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1)**: Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.503 W/kg

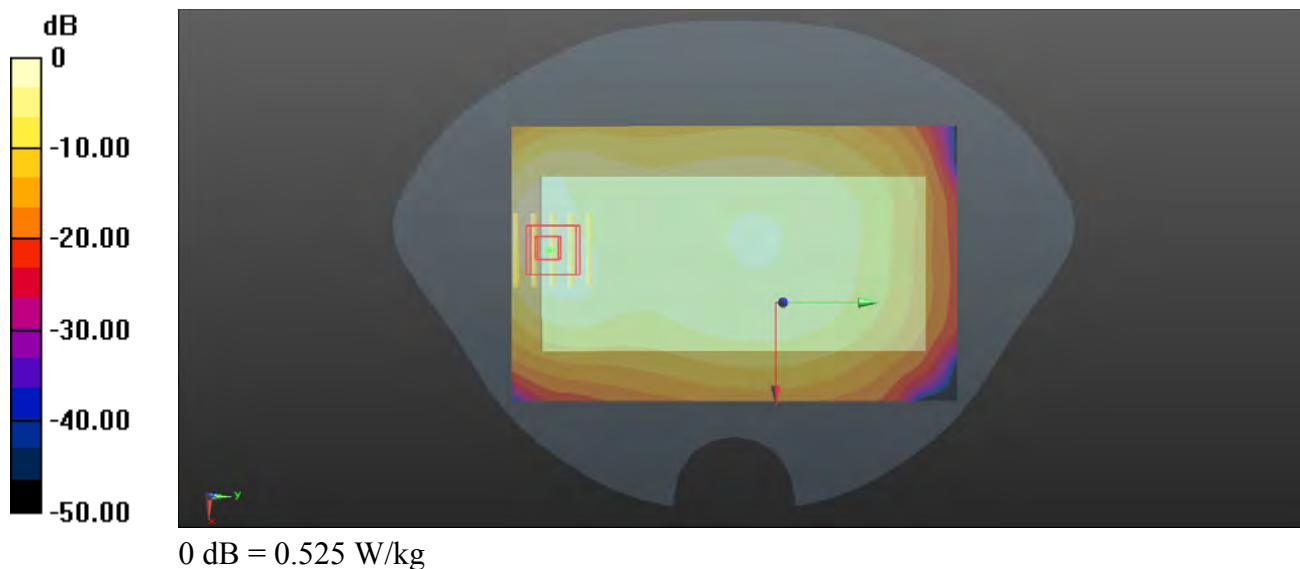
- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.20 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 0.525 W/kg



P42 LTE 2_QPSK20M_Rear Face_1cm_Ch19100_1RB_OS50_Ant4

Communication System: LTE_FDD; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.438$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.858 W/kg

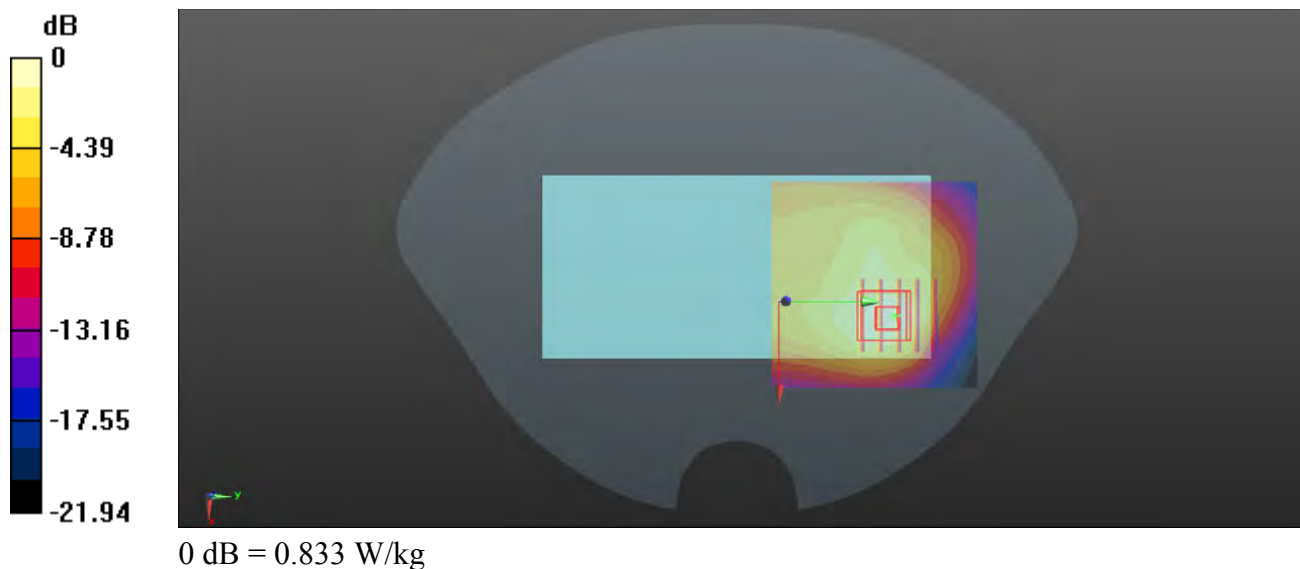
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.82 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 0.833 W/kg



P43 LTE 7_QPSK20M_Top Side_1.5cm_Ch21100_1RB_OS50_Ant4

Communication System: LTE_FDD; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL2600_0322 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.885$ S/m; $\epsilon_r = 39.241$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2535 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (41x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

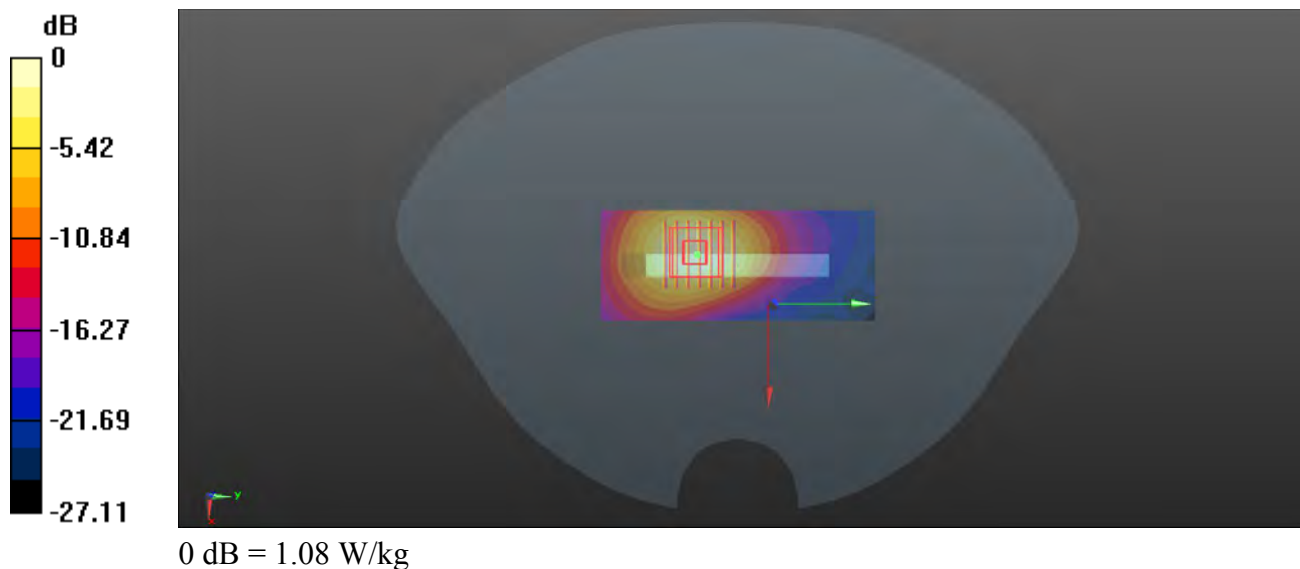
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.96 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.372 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



P44 LTE 12_QPSK10M_Rear Face_1cm_Ch23130_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: HSL750_0311 Medium parameters used: $f = 711$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 43.678$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.59, 9.59, 9.59) @ 711 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.277 W/kg

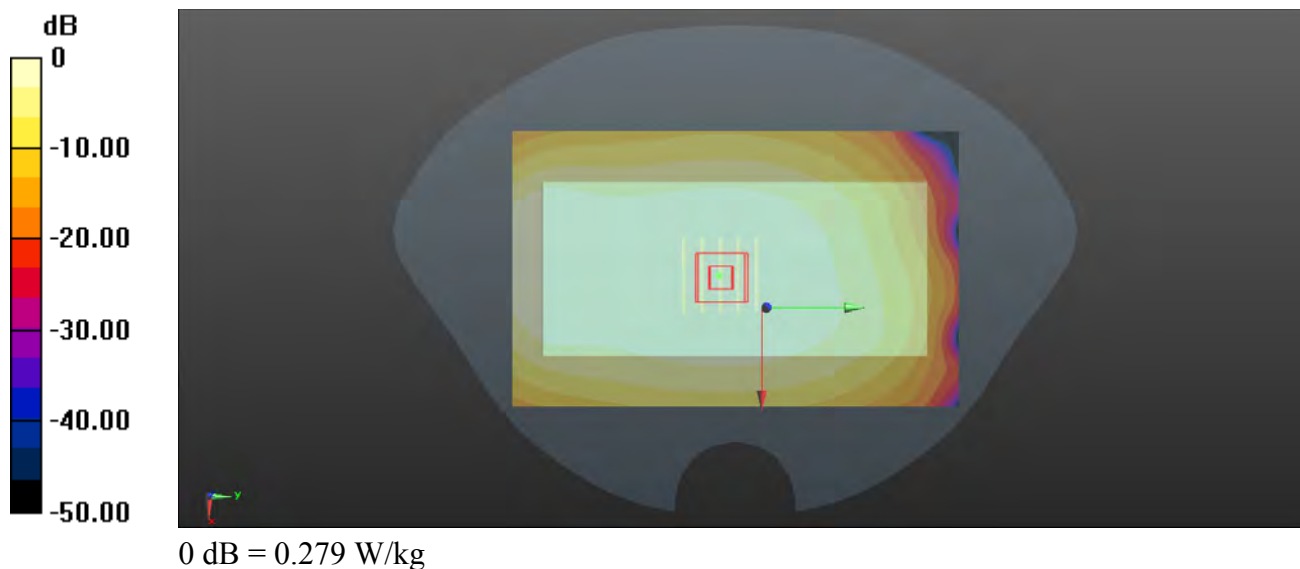
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.64 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.193 W/kg

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



P45 LTE 13_QPSK10M_Rear Face_1cm_Ch23230_1RB_OS24_Ant4

Communication System: LTE_FDD; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_0311 Medium parameters used: $f = 782$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 43.44$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.59, 9.59, 9.59) @ 782 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.374 W/kg

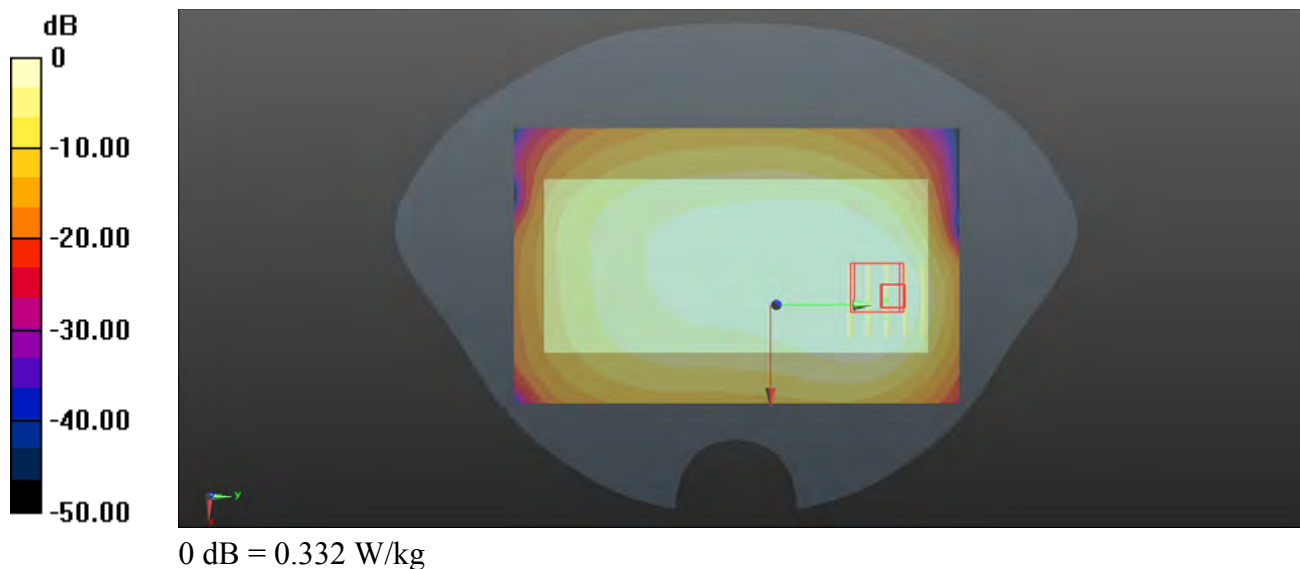
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.95 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.332 W/kg



P46 LTE 26_QPSK15M_Rear Face_1cm_Ch26865_1RB_OS37_Ant0

Communication System: LTE_FDD; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0313 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 43.363$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(9.4, 9.4, 9.4) @ 826.4 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.497 W/kg

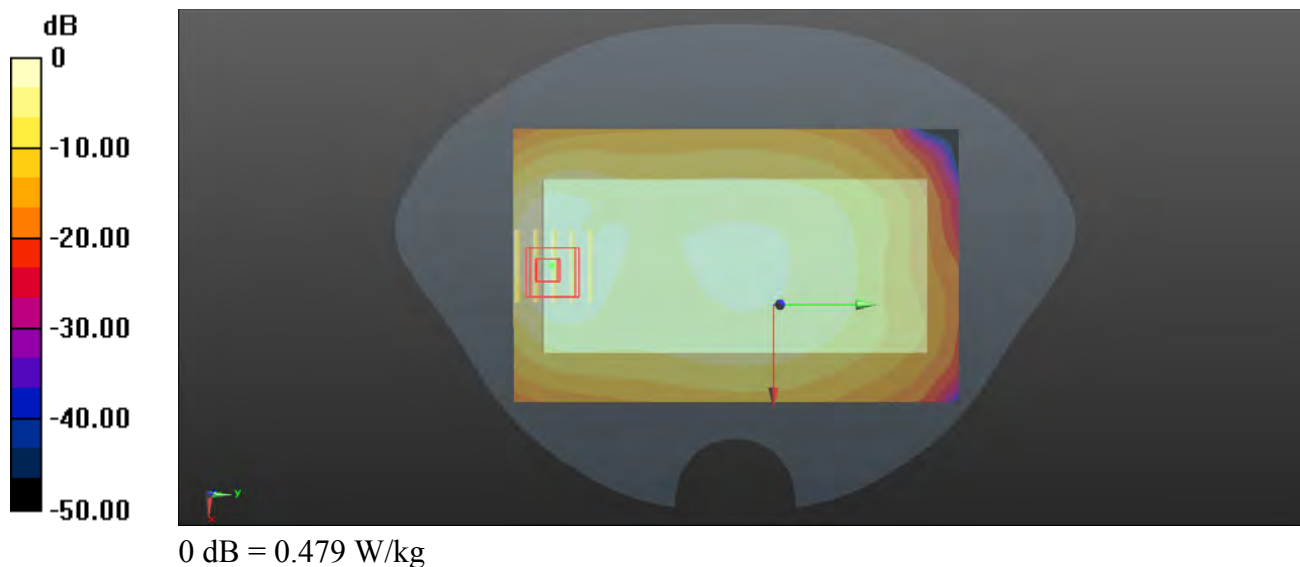
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.65 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.629 W/kg

SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.479 W/kg



P47 LTE 38_QPSK20M_Top Side_1cm_Ch38150_1RB_OS50_Ant4

Communication System: LTE_TDD; Frequency: 2610 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0322 Medium parameters used: $f = 2610$ MHz; $\sigma = 1.945$ S/m; $\epsilon_r = 39.131$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2610 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (41x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

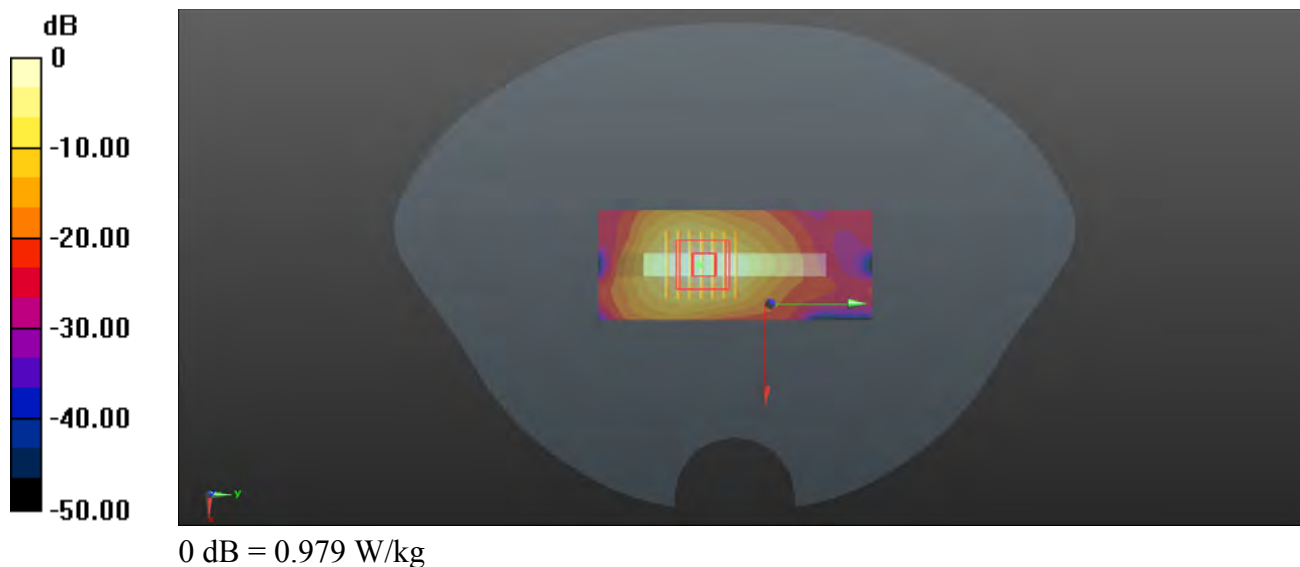
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.79 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.276 W/kg

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



P48 LTE 41_QPSK20M_Top Side_1cm_Ch39750_50RB_OS25_Ant4

Communication System: LTE-TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0323 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 39.158$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2506 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (51x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

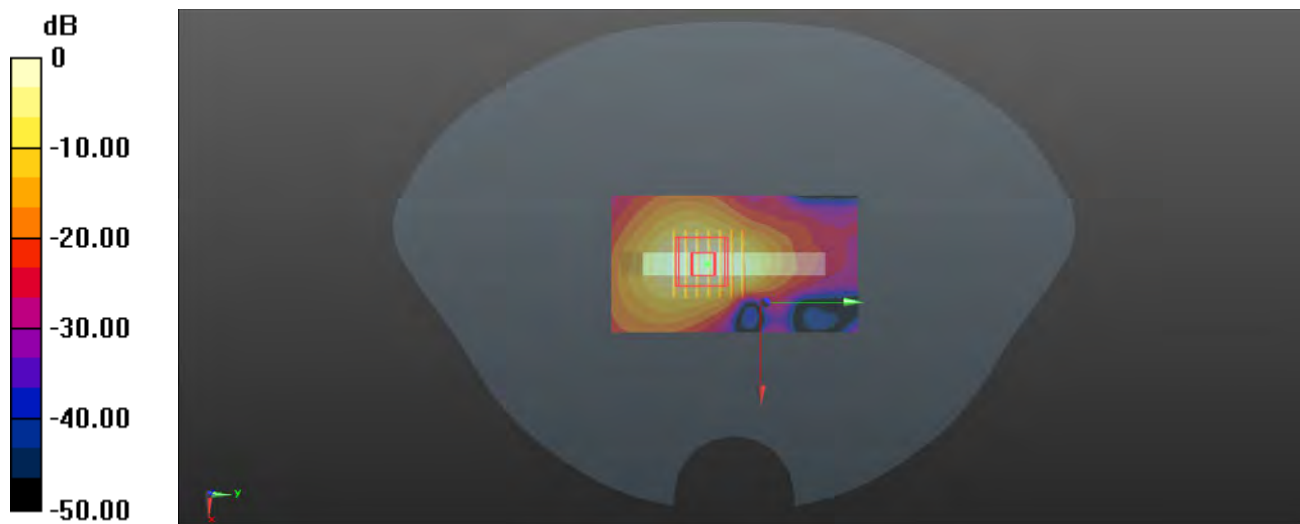
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.99 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.314 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg

P49 LTE 66_QPSK20M_Bottom Side_1cm_Ch132322_100RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 41.132$; $\rho =$

1000 kg/m^3

Ambient Temperature : 23.2°C ; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1745 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (41x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.985 W/kg

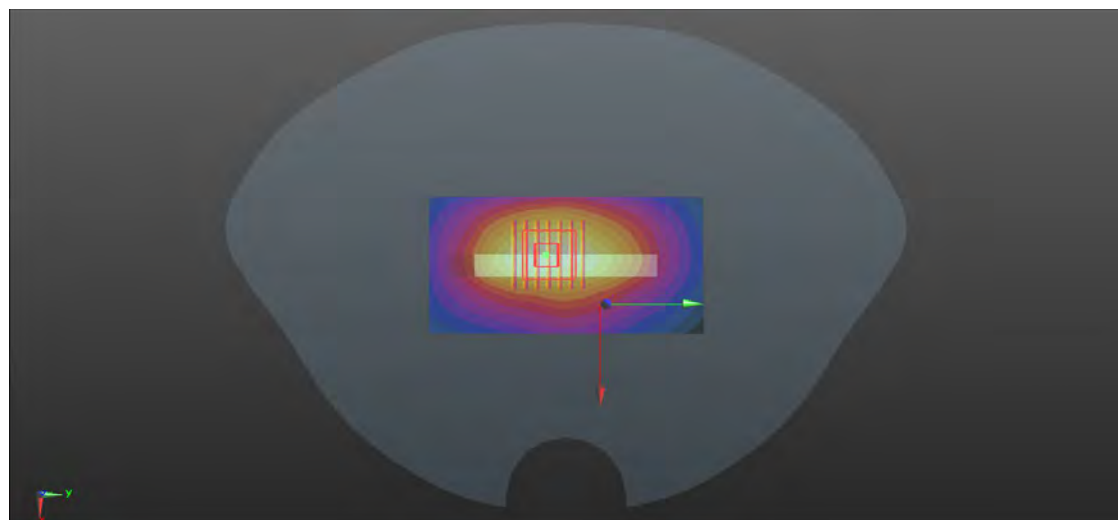
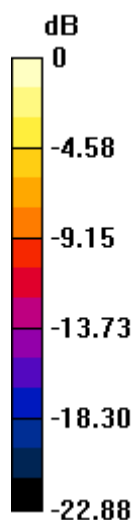
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.61 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.672 W/kg ; SAR(10 g) = 0.372 W/kg

Maximum value of SAR (measured) = 0.980 W/kg



0 dB = 0.980 W/kg

P50 WLAN2.4G_802.11b_Rear Face_1cm_Ch6_Ant6

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_0316 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.808$ S/m; $\epsilon_r = 39.392$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.59, 7.59, 7.59) @ 2437 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.438 W/kg

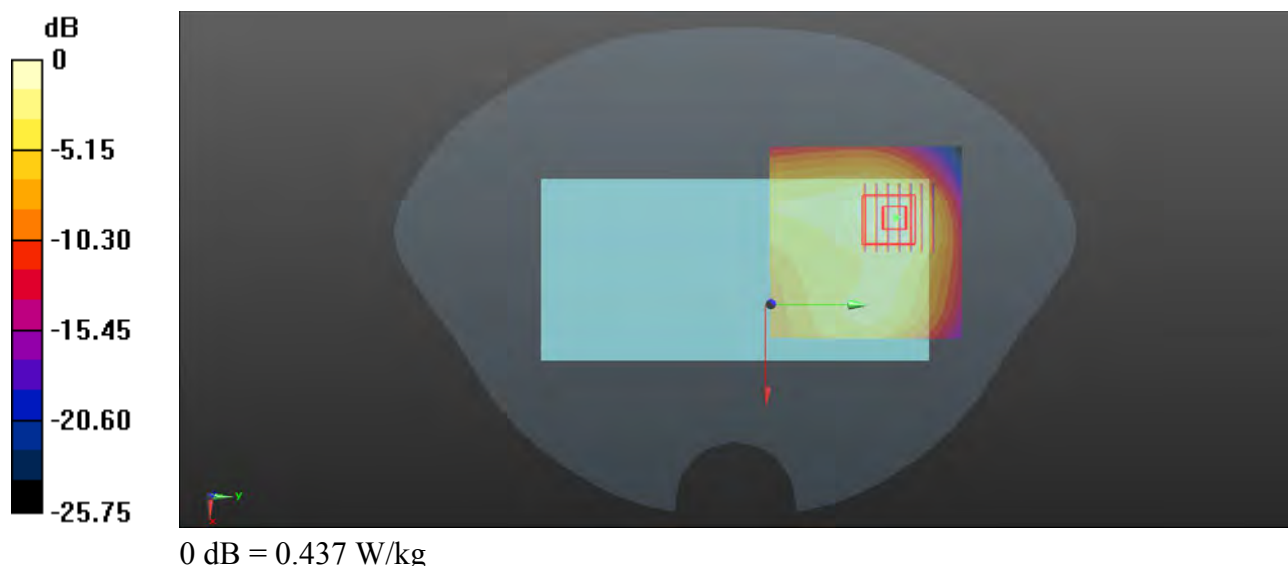
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.380 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.156 W/kg

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



P51 WLAN5G_802.11a_Rear Face_1cm_Ch48_Ant6

Communication System: 802.11a; Frequency: 5240 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5240$ MHz; $\sigma = 4.615$ S/m; $\epsilon_r = 36.21$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.75, 4.75, 4.75) @ 5240 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.629 W/kg

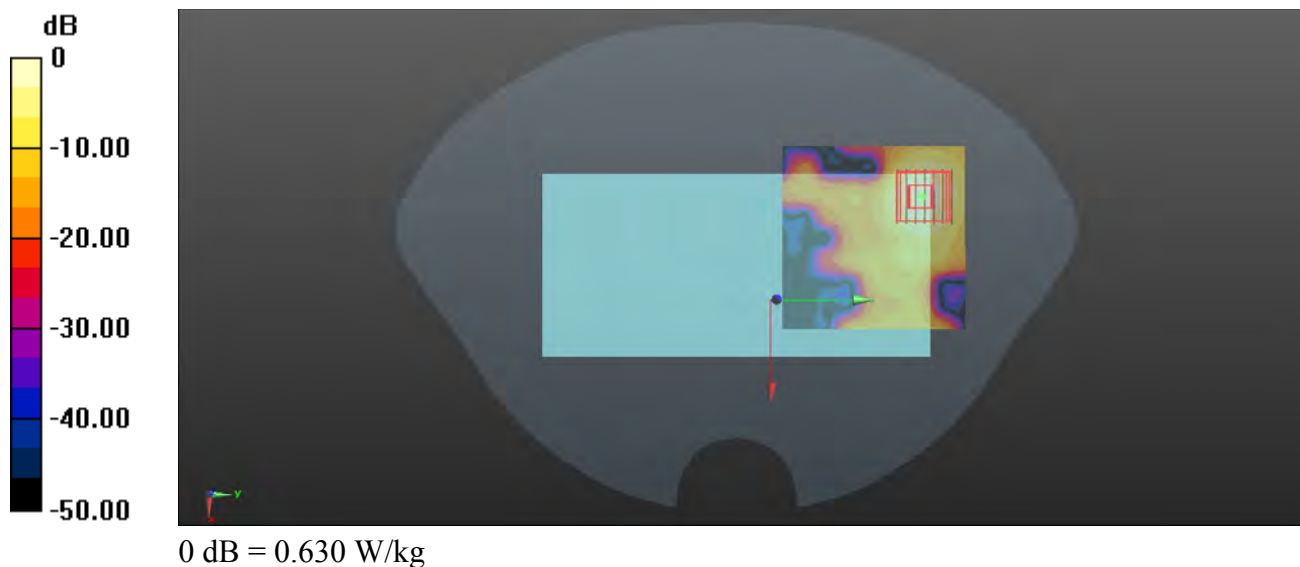
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.1390 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.324 W/kg; SAR(10 g) = 0.107 W/kg

Maximum value of SAR (measured) = 0.630 W/kg



P52 WLAN5G_802.11a_Rear Face_1cm_Ch157_Ant6

Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5785$ MHz; $\sigma = 5.184$ S/m; $\epsilon_r = 35.242$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.48, 4.48, 4.48) @ 5785 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.658 W/kg

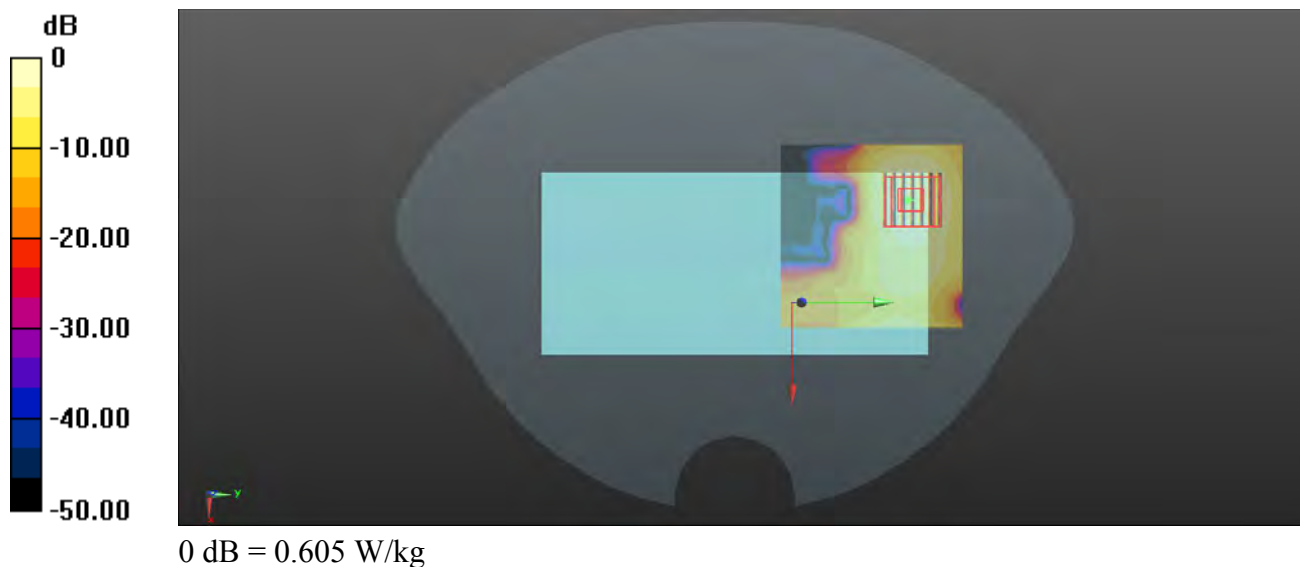
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.605 W/kg



P53 BT_GFSK_Rear Face_1cm_Ch78_Ant6

Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.30

Medium: HSL2450_0316 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.844$ S/m; $\epsilon_r = 39.343$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.59, 7.59, 7.59) @ 2480 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0447 W/kg

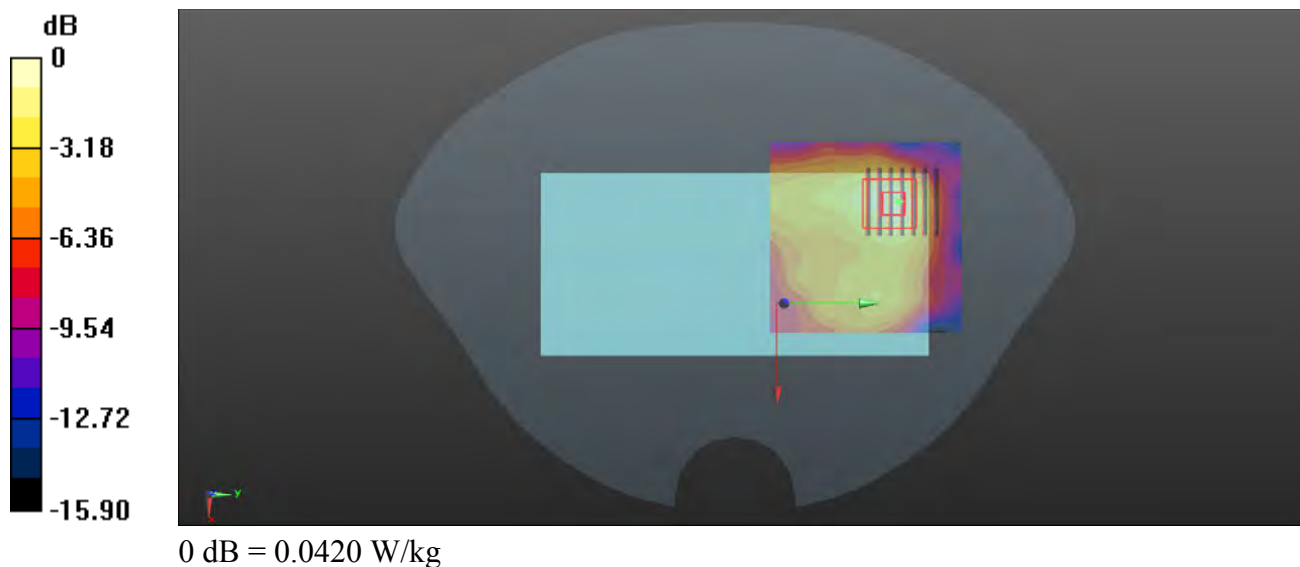
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.111 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0570 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.014 W/kg

Maximum value of SAR (measured) = 0.0420 W/kg



P54 WCDMA II_RMC12.2K_Bottom Side_0cm_Ch9262_Ant0

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 40.475$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1852.4 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (31x61x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 4.67 W/kg

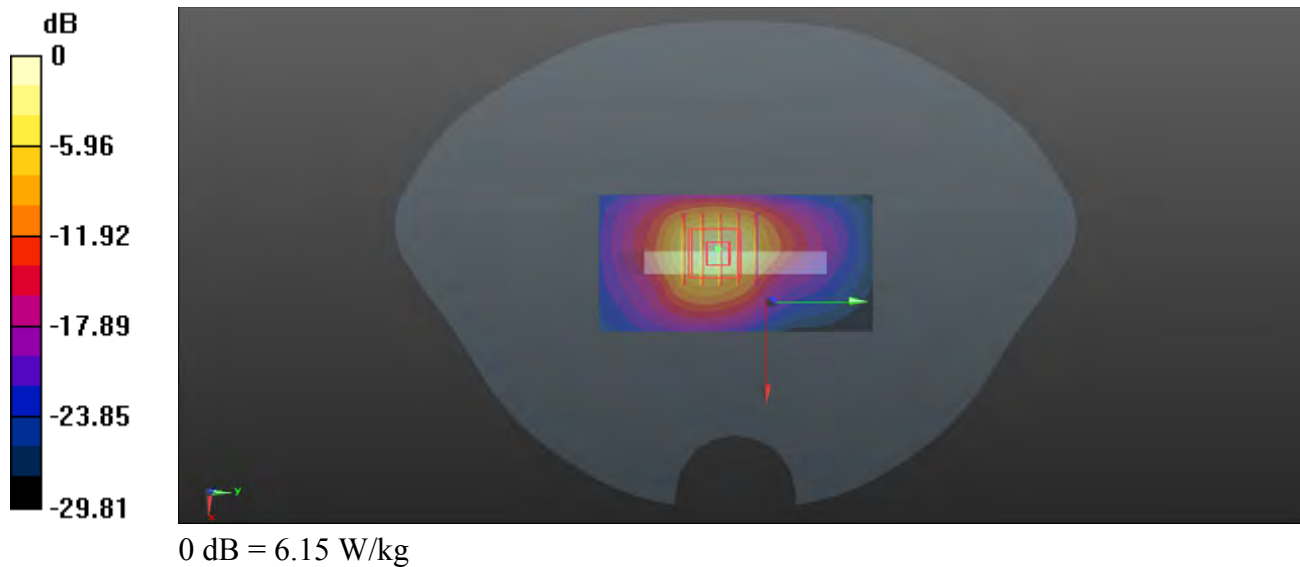
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 48.55 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 8.32 W/kg

SAR(1 g) = 4.17 W/kg; SAR(10 g) = 1.88 W/kg

Maximum value of SAR (measured) = 6.15 W/kg



P55 WCDMA IV_RMC12.2K_Bottom Side_0cm_Ch1513_Ant0

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.424$ S/m; $\epsilon_r = 41.116$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1752.6 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.83 W/kg

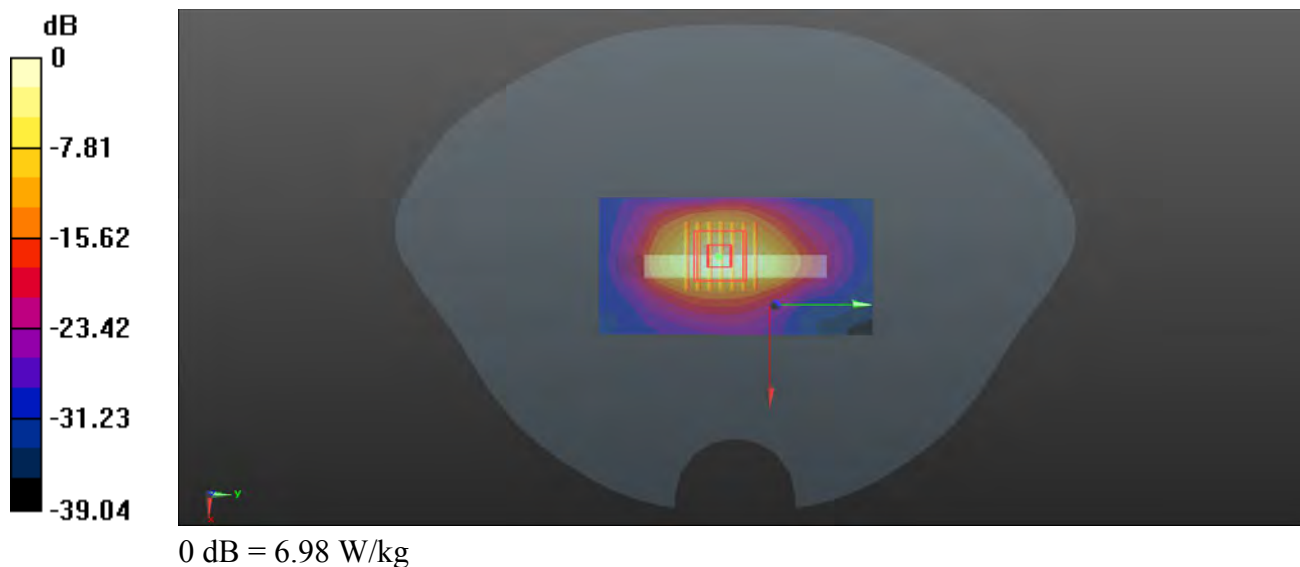
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.50 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 9.59 W/kg

SAR(1 g) = 4.21 W/kg; SAR(10 g) = 1.81 W/kg

Maximum value of SAR (measured) = 6.98 W/kg



P56 LTE 2_QPSK20M_Rear Face_0cm_Ch19100_50RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0315 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.438$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 9.73 W/kg

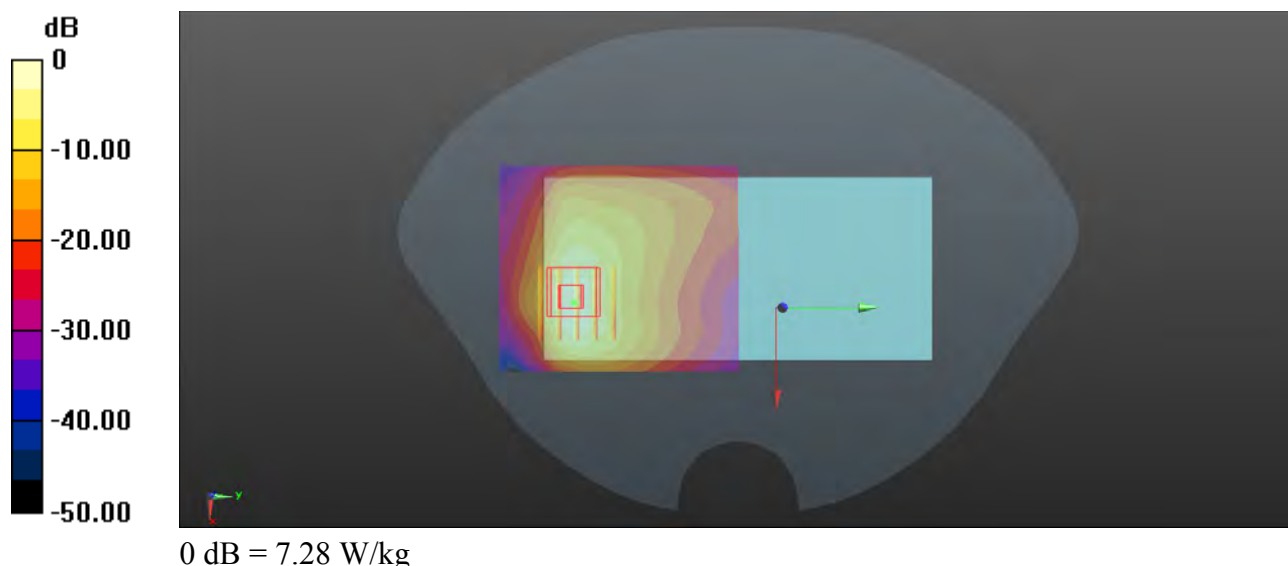
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.325 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 4.58 W/kg; SAR(10 g) = 1.78 W/kg

Maximum value of SAR (measured) = 7.28 W/kg



P57 LTE 7_QPSK20M_Rear Face_0cm_Ch21350_50RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600_0322 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 39.221$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2560 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (101x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.95 W/kg

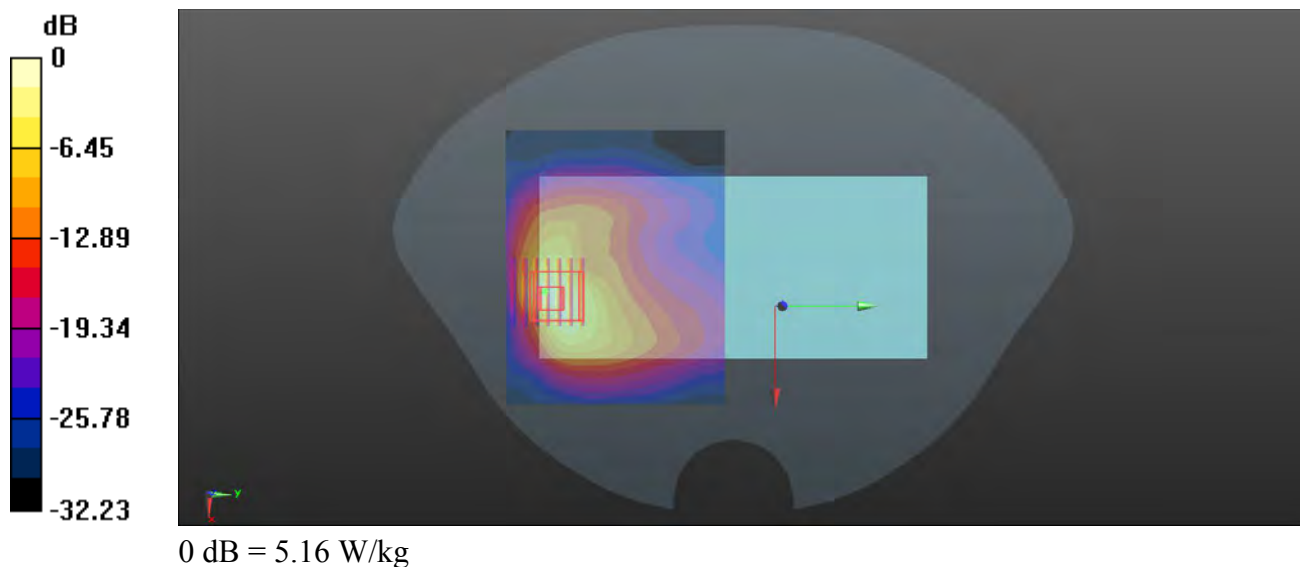
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.974 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 9.06 W/kg

SAR(1 g) = 2.91 W/kg; SAR(10 g) = 1.20 W/kg

Maximum value of SAR (measured) = 5.16 W/kg



P58 LTE 38_QPSK20M_Top Side_0cm_Ch37850_50RB_OS0_Ant4

Communication System: LTE_TDD; Frequency: 2580 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0322 Medium parameters used: $f = 2580$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39.193$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2580 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (41x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 7.50 W/kg

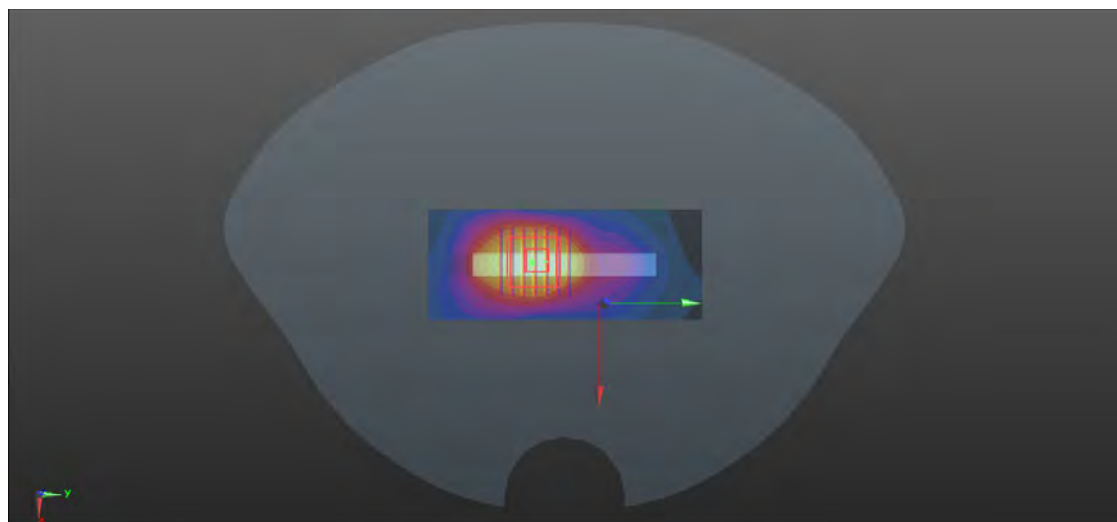
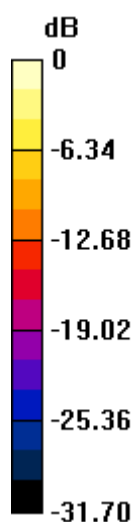
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.14 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 4.02 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 7.71 W/kg



0 dB = 7.71 W/kg

P59 LTE 41_QPSK20M_Top Side_0cm_Ch39750_50RB_OS25_Ant4

Communication System: LTE-TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL2600_0323 Medium parameters used: $f = 2506$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 39.158$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.47, 7.47, 7.47) @ 2506 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 7.75 W/kg

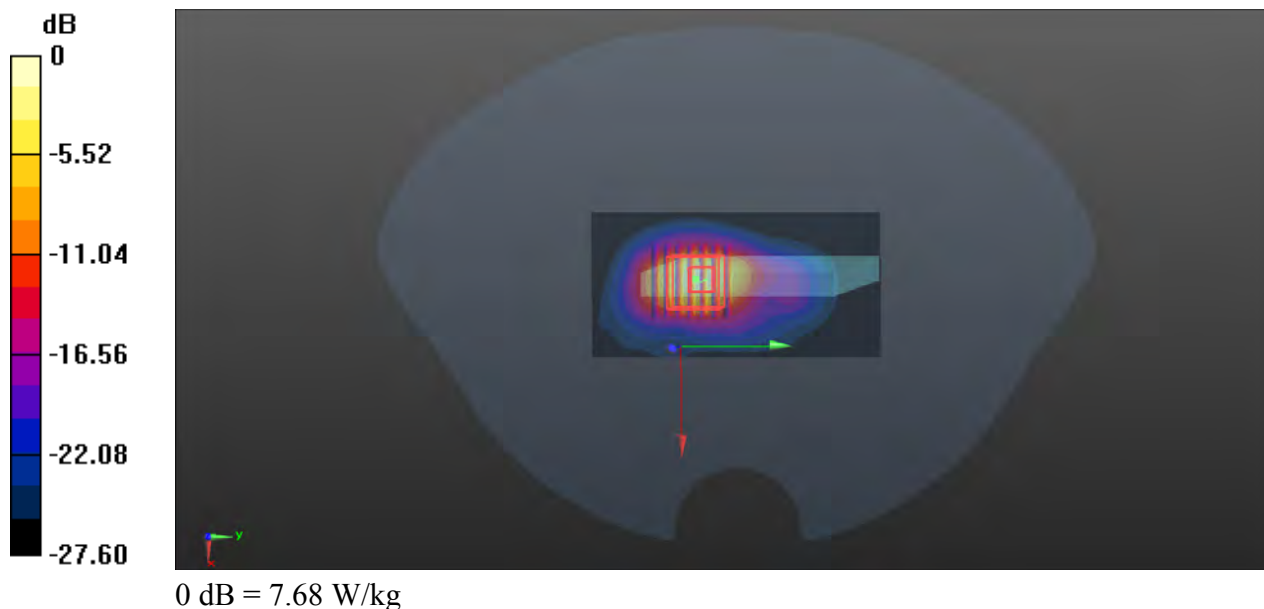
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.70 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 4.01 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 7.68 W/kg



P60 LTE 66_QPSK20M_Bottom Side_0cm_Ch132572_50RB_OS25_Ant0

Communication System: LTE_FDD; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL1750_0314 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 41.078$; $\rho =$

1000 kg/m^3

Ambient Temperature : 23.2°C ; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(8.25, 8.25, 8.25) @ 1770 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (41x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 6.56 W/kg

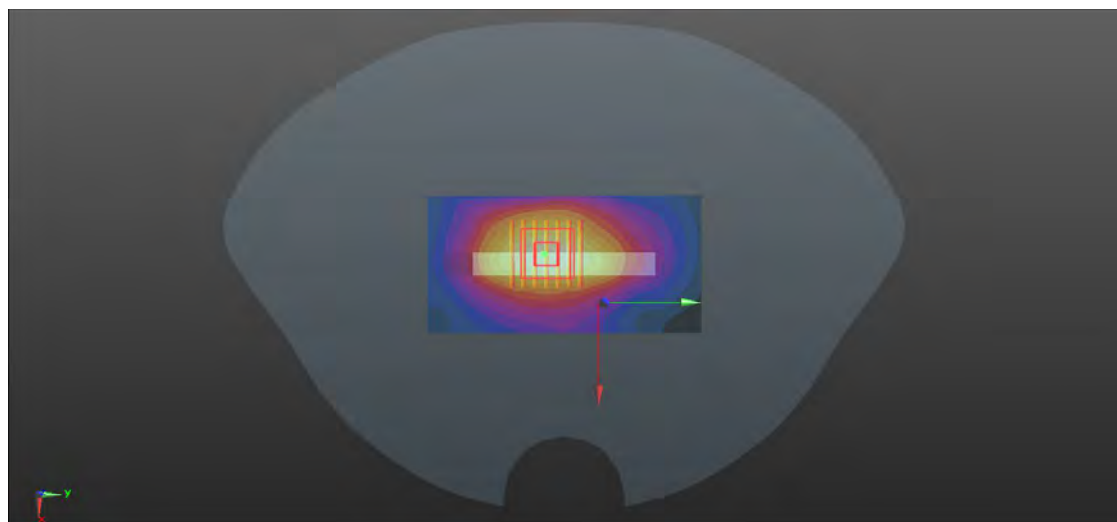
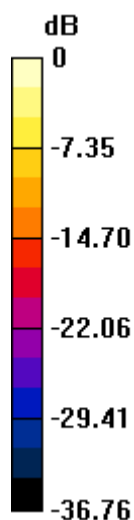
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 47.74 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 9.27 W/kg

SAR(1 g) = 4.05 W/kg ; SAR(10 g) = 1.75 W/kg

Maximum value of SAR (measured) = 6.69 W/kg



0 dB = 6.69 W/kg

P61 WLAN5G_802.11a_Top Side_0cm_Ch64_Ant6

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.684$ S/m; $\epsilon_r = 35.994$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.75, 4.75, 4.75) @ 5320 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (51x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 3.47 W/kg

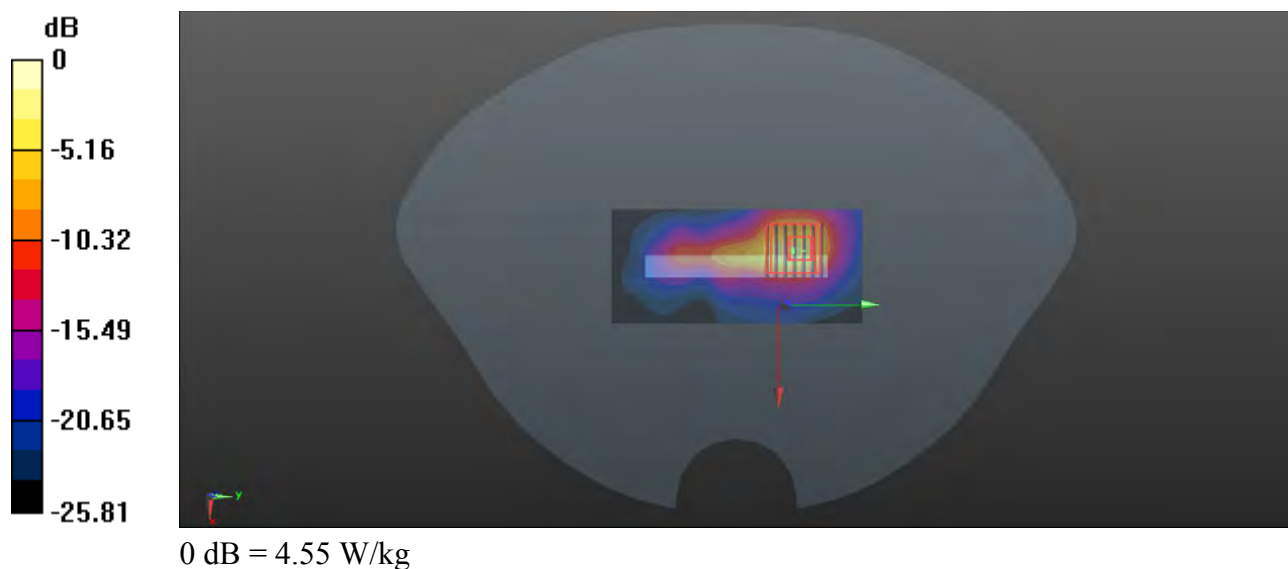
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.321 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 1.89 W/kg; SAR(10 g) = 0.499 W/kg

Maximum value of SAR (measured) = 4.55 W/kg



P62 WLAN5G_802.11a_Top Side_0cm_Ch100_Ant6

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1.04

Medium: HSL5G_0317 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.898$ S/m; $\epsilon_r = 35.73$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.47, 4.47, 4.47) @ 5500 MHz; Calibrated: 2022/08/31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2022/11/09
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.14 (7483)

-Area Scan (51x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.60 W/kg

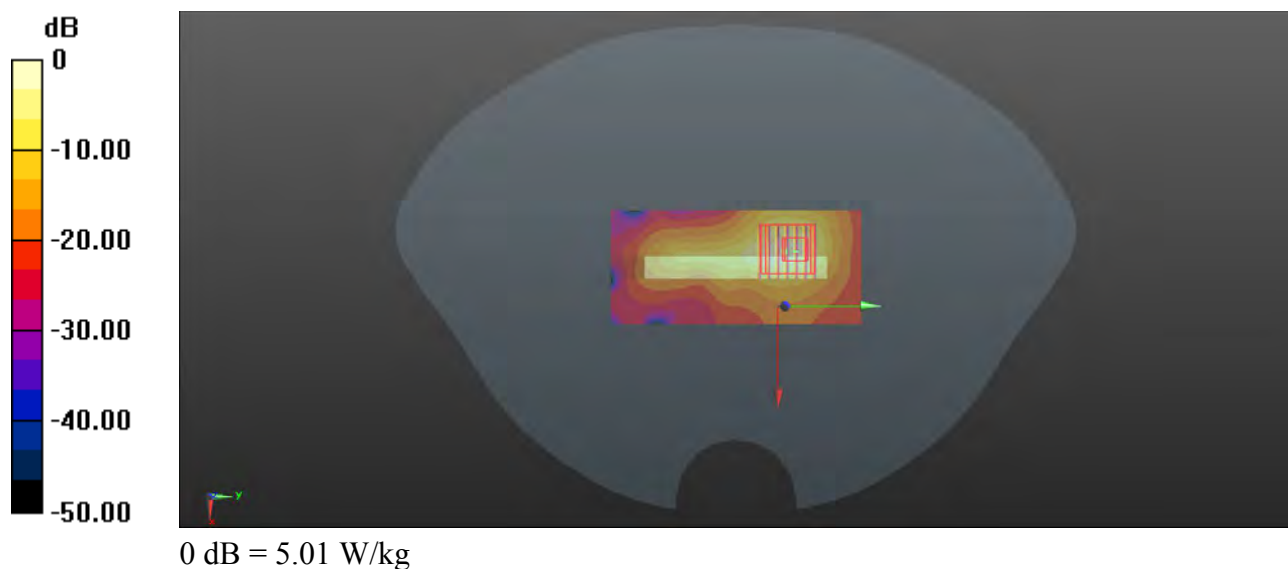
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.09 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 11.5 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 0.60 W/kg

Maximum value of SAR (measured) = 5.01 W/kg





Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.

Client : **B.V.ADT**

Certificate No: **Z22-60514**

CALIBRATION CERTIFICATE

Object **DAE4 - SN: 1389**

Calibration Procedure(s) **FF-Z11-002-01**
Calibration Procedure for the Data Acquisition Electronics (DAEx)

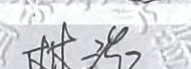
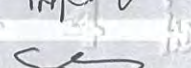
Calibration date: **November 09, 2022**

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
Process Calibrator 753	1971018	14-Jun-22 (CTTL, No.J22X04180)	Jun-23

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: November 11, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



In Collaboration with

s p e a g
CALIBRATION LABORATORY



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China

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E-mail: emf@caict.ac.cn

<http://www.caict.ac.cn>

Glossary:

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China

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<http://www.caict.ac.cn>

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.750 $\pm$ 0.15% (k=2)	403.710 $\pm$ 0.15% (k=2)	404.176 $\pm$ 0.15% (k=2)
Low Range	3.98043 $\pm$ 0.7% (k=2)	3.96400 $\pm$ 0.7% (k=2)	4.02362 $\pm$ 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	130.5° $\pm$ 1 °
---	------------------

Calibration Laboratory ofSchmid & Partner
Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

**S** Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificatesAccreditation No.: **SCS 0108**

Client

ADT-CN (Auden)

Certificate No

EX-3873_Aug22**CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:3873

Calibration procedure(s)

**QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5,
QA CAL-25.v7****Calibration procedure for dosimetric E-field probes**

Calibration date

August 31, 2022

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 $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-21 (OCP-DAK3.5-1249_Oct21)	Oct-22
OCP DAK-12	SN: 1016	20-Oct-21 (OCP-DAK12-1016_Oct21)	Oct-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	13-Oct-21 (No. DAE4-660_Oct21)	Oct-22
Reference Probe ES3DV2	SN: 3013	27-Dec-21 (No. ES3-3013_Dec21)	Dec-22

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22

	Name	Function	Signature
Calibrated by	Aidonia Georgiadou	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Issued: August 31, 2022



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

Parameters of Probe: EX3DV4 - SN:3873

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc ($k = 2$)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.37	0.45	0.48	$\pm 10.1\%$
DCP (mV) ^B	102.5	99.0	98.9	$\pm 4.7\%$

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B $\text{dB}\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc ^E $k = 2$
0	CW	X	0.00	0.00	1.00	0.00	178.8	$\pm 2.5\%$	$\pm 4.7\%$
		Y	0.00	0.00	1.00		154.5		
		Z	0.00	0.00	1.00		176.9		
10352	Pulse Waveform (200Hz, 10%)	X	4.58	71.97	13.66	10.00	60.0	$\pm 3.1\%$	$\pm 9.6\%$
		Y	20.00	90.07	20.08		60.0		
		Z	64.00	106.00	25.00		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	4.74	74.24	13.27	6.99	80.0	$\pm 1.7\%$	$\pm 9.6\%$
		Y	20.00	92.29	20.19		80.0		
		Z	20.00	93.17	20.75		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	3.34	72.93	11.34	3.98	95.0	$\pm 1.2\%$	$\pm 9.6\%$
		Y	20.00	98.96	22.14		95.0		
		Z	20.00	95.31	20.18		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	0.47	61.98	6.00	2.22	120.0	$\pm 1.0\%$	$\pm 9.6\%$
		Y	20.00	109.06	25.41		120.0		
		Z	20.00	91.55	16.95		120.0		
10387	QPSK Waveform, 1 MHz	X	1.61	65.14	14.34	1.00	150.0	$\pm 2.6\%$	$\pm 9.6\%$
		Y	1.83	67.43	15.88		150.0		
		Z	1.66	65.09	14.40		150.0		
10388	QPSK Waveform, 10 MHz	X	2.15	67.35	15.08	0.00	150.0	$\pm 0.9\%$	$\pm 9.6\%$
		Y	2.48	69.76	16.66		150.0		
		Z	2.20	67.37	15.08		150.0		
10396	64-QAM Waveform, 100 kHz	X	2.91	69.83	18.28	3.01	150.0	$\pm 1.1\%$	$\pm 9.6\%$
		Y	2.60	68.40	18.12		150.0		
		Z	3.03	69.84	18.43		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.46	66.87	15.49	0.00	150.0	$\pm 2.6\%$	$\pm 9.6\%$
		Y	3.53	67.27	15.97		150.0		
		Z	3.51	66.93	15.54		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.91	65.62	15.43	0.00	150.0	$\pm 4.4\%$	$\pm 9.6\%$
		Y	4.87	65.53	15.57		150.0		
		Z	4.98	65.66	15.49		150.0		

Note: For details on UID parameters see Appendix

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%.

^A The uncertainties of Norm X,Y,Z do not affect the E^2 -field uncertainty inside TSL (see Page 5).

^B Linearization parameter uncertainty for maximum specified field strength.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Parameters of Probe: EX3DV4 - SN:3873

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms V^{-2}$	T2 $ms V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
x	53.0	397.58	35.80	9.04	0.46	5.03	0.45	0.44	1.01
y	49.7	374.02	36.16	16.88	0.00	5.09	0.00	0.42	1.01
z	56.3	428.72	36.64	13.56	0.42	5.10	0.00	0.58	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-157.7°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

Parameters of Probe: EX3DV4 - SN:3873

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	9.59	9.59	9.59	0.51	0.82	±12.0%
835	41.5	0.90	9.40	9.40	9.40	0.43	0.85	±12.0%
900	41.5	0.97	9.16	9.16	9.16	0.42	0.80	±12.0%
1450	40.5	1.20	8.49	8.49	8.49	0.41	0.80	±12.0%
1750	40.1	1.37	8.25	8.25	8.25	0.35	0.86	±12.0%
1900	40.0	1.40	8.02	8.02	8.02	0.26	0.86	±12.0%
2300	39.5	1.67	8.01	8.01	8.01	0.31	0.90	±12.0%
2450	39.2	1.80	7.59	7.59	7.59	0.38	0.90	±12.0%
2600	39.0	1.96	7.47	7.47	7.47	0.38	0.90	±12.0%
3300	38.2	2.71	6.91	6.91	6.91	0.30	1.35	±13.1%
3500	37.9	2.91	6.77	6.77	6.77	0.30	1.35	±13.1%
3700	37.7	3.12	6.61	6.61	6.61	0.30	1.35	±13.1%
3900	37.5	3.32	6.21	6.21	6.21	0.40	1.80	±13.1%
4100	37.2	3.53	6.15	6.15	6.15	0.40	1.80	±13.1%
5250	35.9	4.71	4.75	4.75	4.75	0.40	1.80	±13.1%
5600	35.5	5.07	4.47	4.47	4.47	0.40	1.80	±13.1%
5800	35.3	5.27	4.48	4.48	4.48	0.40	1.80	±13.1%

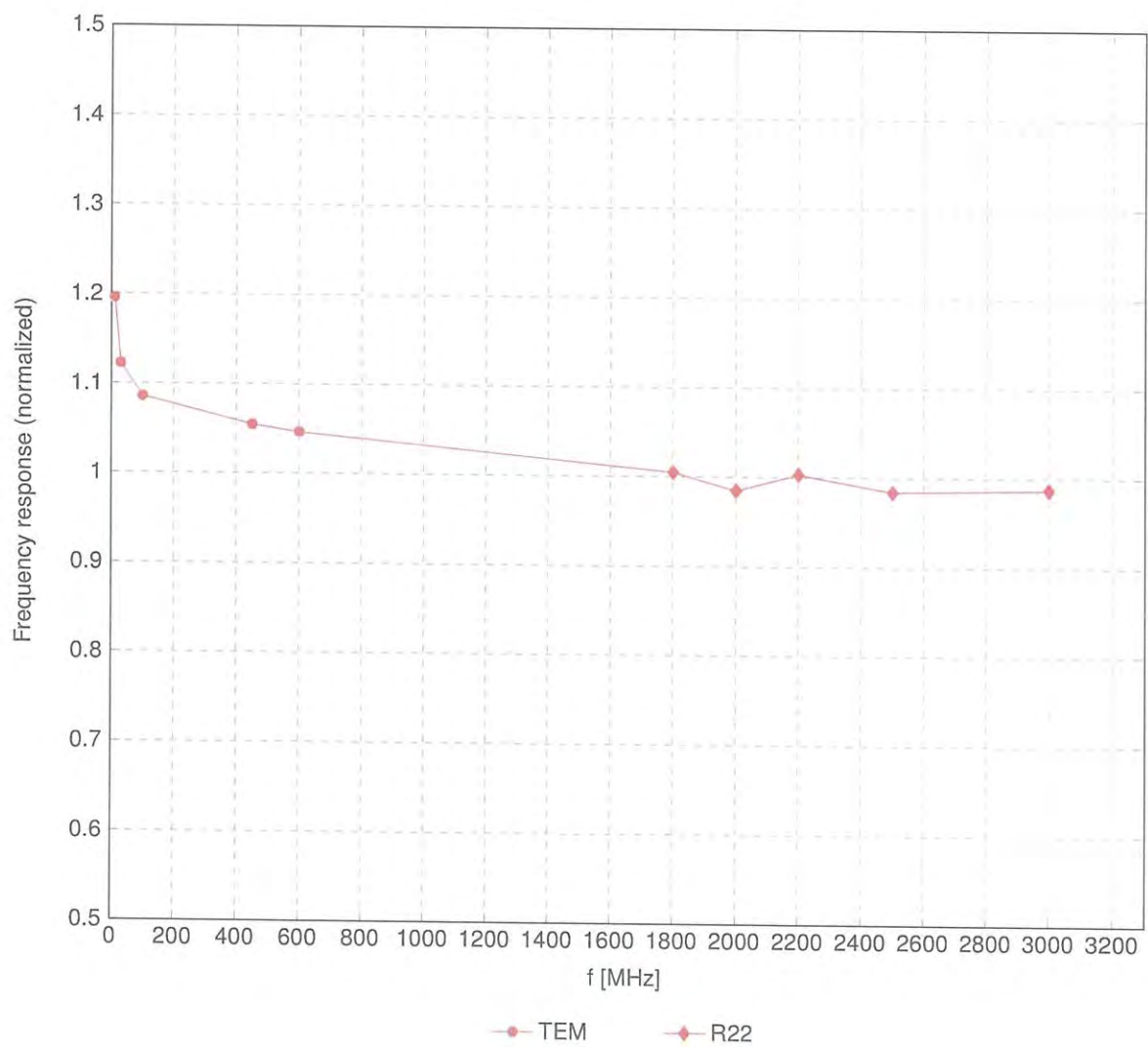
^C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

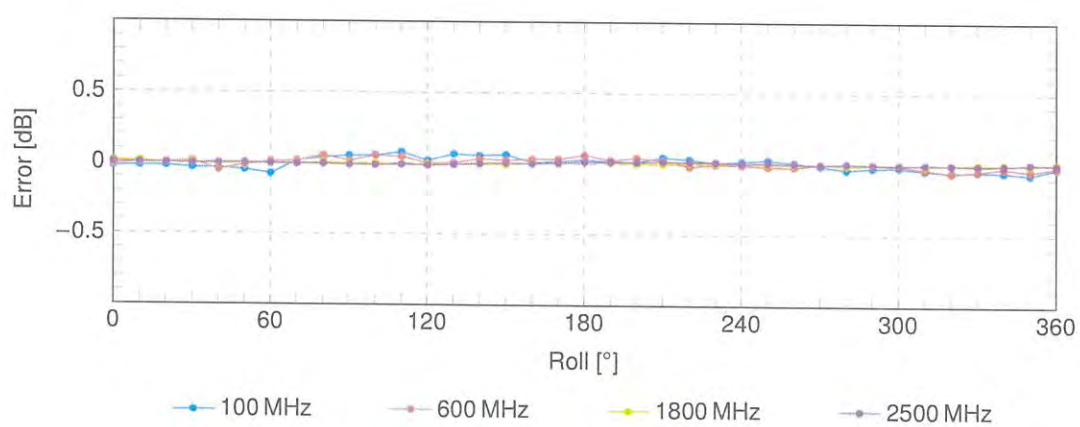
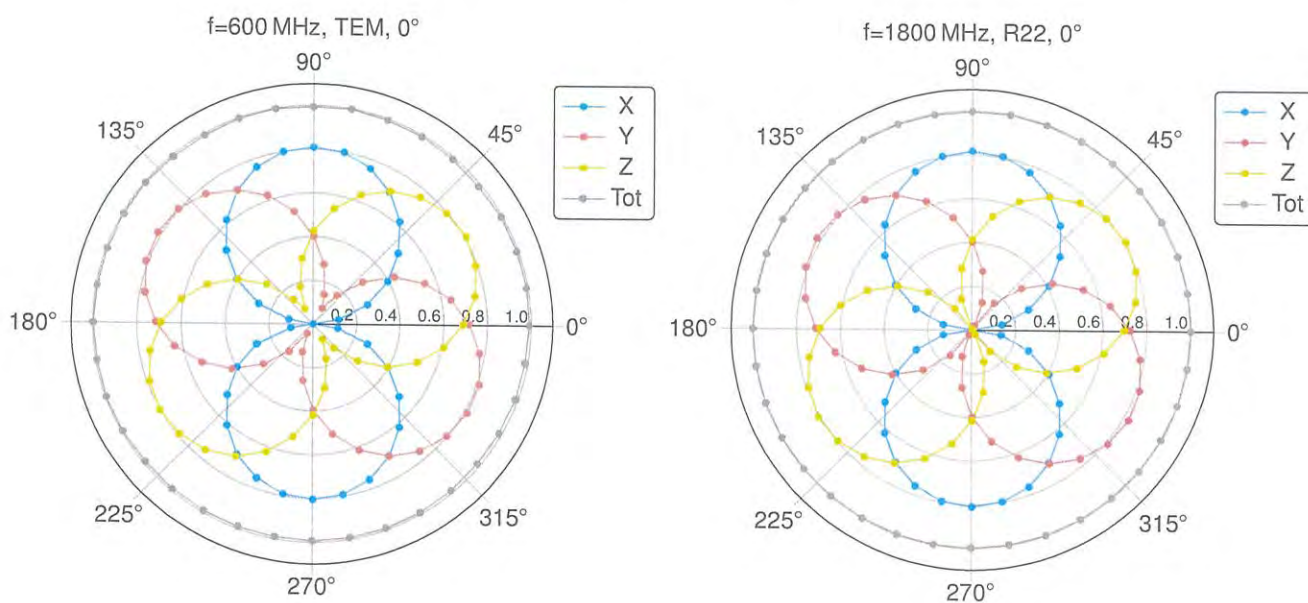
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

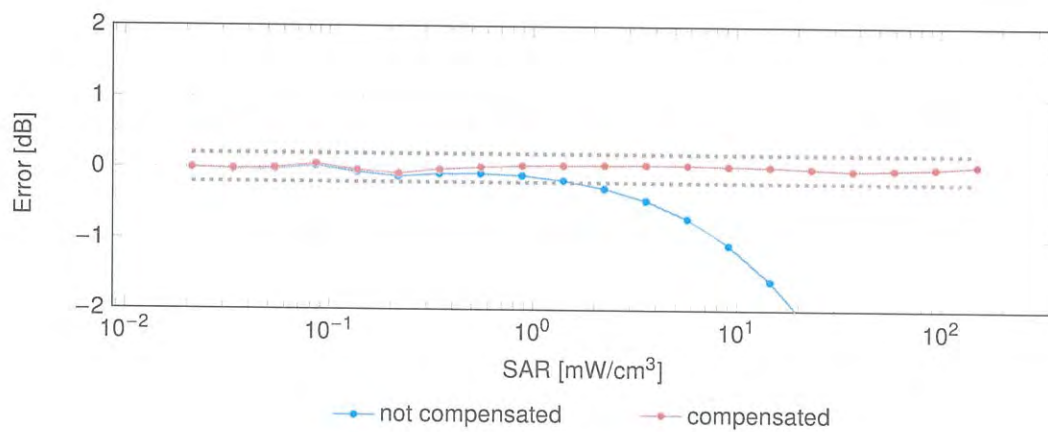
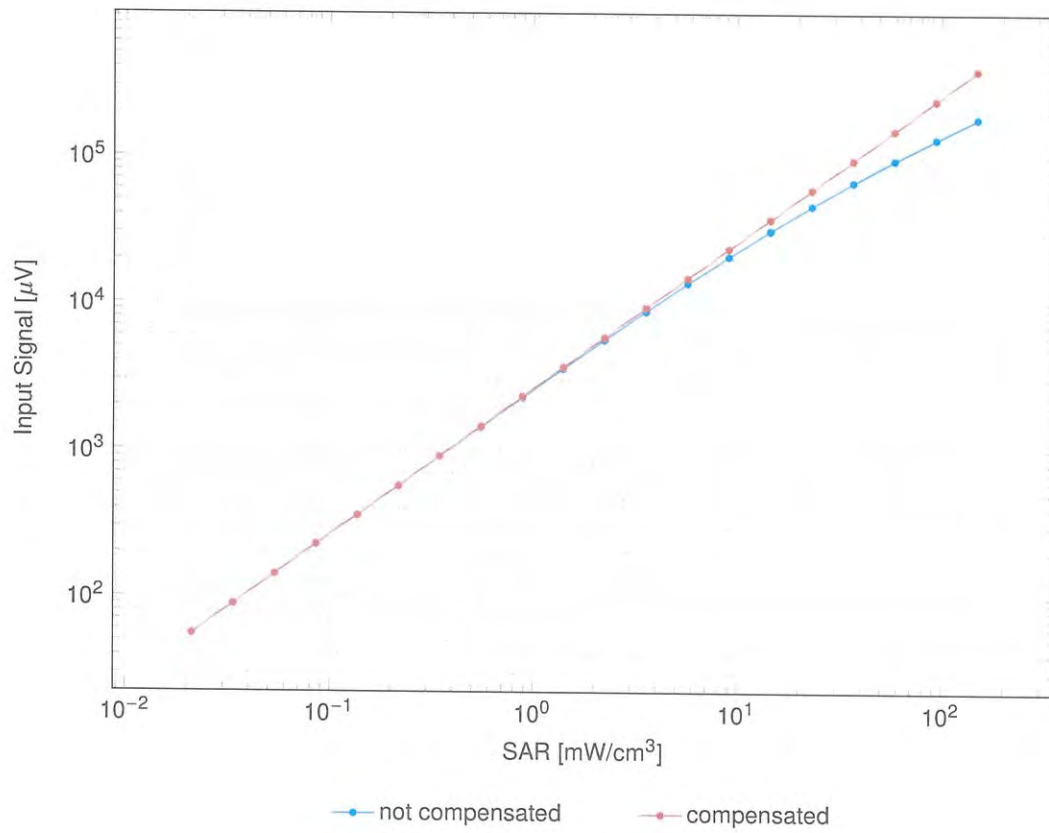
Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)

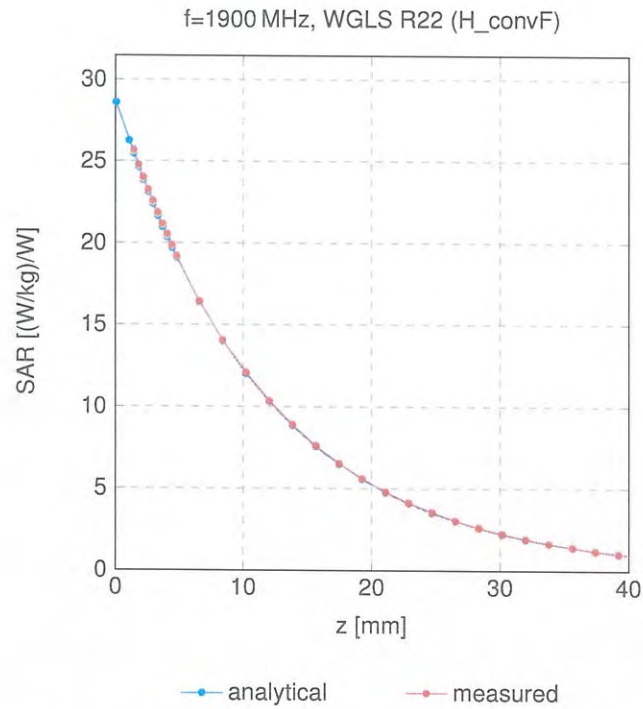


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\vartheta = 0^\circ$ Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range f(SAR_{head})(TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$)Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

