



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>2600MHz</b>																				
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	21100	2535	15.31	16.80	1.409	-	-	-0.09	0.227	0.320
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	21100	2535	15.21	16.80	1.442	-	-	0.09	0.197	0.284
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	21100	2535	15.31	16.80	1.409	-	-	0.19	0.283	0.399
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	21100	2535	15.21	16.80	1.442	-	-	-0.01	0.229	0.330
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3	21100	2535	15.31	16.80	1.409	-	-	0.06	0.008	0.011
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3	21100	2535	15.21	16.80	1.442	-	-	0.13	0.008	0.012
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3	21100	2535	15.31	16.80	1.409	-	-	-0.07	0.045	0.063
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3	21100	2535	15.21	16.80	1.442	-	-	0.16	0.037	0.053
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	21100	2535	15.31	16.80	1.409	-	-	-0.12	0.605	0.853
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	20850	2510	15.21	16.80	1.442	-	-	0.08	0.560	0.808
37	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	21350	2560	15.28	16.80	1.419	-	-	-0.02	0.664	0.942
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 3	21100	2535	15.21	16.80	1.442	-	-	0.1	0.567	0.818
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	DSI 3	21100	2535	15.15	16.80	1.462	-	-	0.19	0.569	0.832
	LTE Band 7C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	21350+21152	2560+2540.2	15.01	16.80	1.510	-	-	0.03	0.612	0.924
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3	21100	2535	21.79	22.60	1.205	-	-	-0.18	0.600	0.723
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	21100	2535	21.71	22.60	1.227	-	-	0.07	0.676	0.830
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	20850	2510	21.66	22.60	1.242	-	-	0.06	0.647	0.803
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3	21350	2560	21.59	22.60	1.262	-	-	0.16	0.684	0.863
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 2	DSI 3	21100	2535	21.67	22.60	1.239	-	-	0.04	0.509	0.631
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	21.79	22.60	1.205	-	-	0.04	0.640	0.771
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	21.71	22.60	1.227	-	-	0.14	0.611	0.750
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	21.79	22.60	1.205	-	-	0.09	0.612	0.737
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	21.71	22.60	1.227	-	-	-0.15	0.585	0.718
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	20850	2510	21.66	22.60	1.242	-	-	0.06	0.578	0.718
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	21350	2560	21.59	22.60	1.262	-	-	0.04	0.541	0.683
	LTE Band 7	20M	QPSK	100	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	21.67	22.60	1.239	-	-	-0.12	0.585	0.725
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3	21100	2535	21.79	22.60	1.205	-	-	-0.16	0.055	0.066
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3	21100	2535	21.71	22.60	1.227	-	-	0.08	0.056	0.069
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3	21100	2535	21.79	22.60	1.205	-	-	0.04	0.714	0.860
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3	20850	2510	21.71	22.60	1.227	-	-	0.03	0.756	0.928
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3	21350	2560	21.65	22.60	1.245	-	-	-0.14	0.687	0.855
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3	21100	2535	21.71	22.60	1.227	-	-	0.05	0.723	0.887
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3	20850	2510	21.66	22.60	1.242	-	-	0.17	0.740	0.919
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3	21350	2560	21.59	22.60	1.262	-	-	0.05	0.665	0.839
	LTE Band 7	20M	QPSK	100	0	-	Top Side	5mm	Ant 2	DSI 3	21100	2535	21.67	22.60	1.239	-	-	-0.05	0.712	0.882
	LTE Band 7C	20M	QPSK	1	99	-	Top Side	5mm	Ant 2	DSI 3	20850+21048	2510+2529.8	21.55	22.60	1.274	-	-	-0.05	0.713	0.908
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3	40620	2593	18.61	19.60	1.256	62.9	1.006	0.03	0.325	0.411
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3	40620	2593	18.52	19.60	1.282	62.9	1.006	0.09	0.208	0.268
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	40620	2593	18.61	19.60	1.256	62.9	1.006	0.12	0.362	0.457
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	40620	2593	18.52	19.60	1.282	62.9	1.006	0.04	0.302	0.390
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3	40620	2593	18.61	19.60	1.256	62.9	1.006	0.06	0.023	0.029
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3	40620	2593	18.52	19.60	1.282	62.9	1.006	0.02	0.018	0.023
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3	40620	2593	18.61	19.60	1.256	62.9	1.006	-0.12	0.068	0.086
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3	40620	2593	18.52	19.60	1.282	62.9	1.006	-0.17	0.057	0.074
38	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	40620	2593	18.61	19.60	1.256	62.9	1.006	0.06	0.748	0.945
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	39750	2506	18.58	19.60	1.265	62.9	1.006	0.11	0.679	0.864
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	40185	2549.5	18.54	19.60	1.276	62.9	1.006	-0.16	0.625	0.803
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	41055	2636.5	18.38	19.60	1.324	62.9	1.006	0.09	0.556	0.741
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	41490	2680	18.47	19.60	1.297	62.9	1.006	-0.14	0.399	0.521
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 3	40620	2593	18.52	19.60	1.282	62.9	1.006	-0.13	0.607	0.783
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 3	39750	2506	18.38	19.60	1.324	62.9	1.006	0.06	0.579	0.771



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	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 3	40185	2549.5	18.49	19.60	1.291	62.9	1.006	0.05	0.538	0.699
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 3	41055	2636.5	18.41	19.60	1.315	62.9	1.006	0.06	0.591	0.782
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 3	41490	2680	18.44	19.60	1.306	62.9	1.006	0.07	0.581	0.763
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	DSI 3	40620	2593	18.48	19.60	1.294	62.9	1.006	0.07	0.578	0.753
	LTE Band 41-HPUE	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	40620	2593	20.38	21.20	1.208	42.9	1.009	-0.16	0.711	0.866
	LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 3	40620+ 40422	2595+ 2575.2	18.48	19.60	1.294	62.9	1.006	0.03	0.702	0.914
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Front	5mm	Ant 1	DSI 3	507000	2535	16.75	18.00	1.334	-	-	0.07	0.238	0.317
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Front	5mm	Ant 1	DSI 3	507000	2535	16.66	18.00	1.361	-	-	-0.05	0.287	0.391
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Back	5mm	Ant 1	DSI 3	507000	2535	16.75	18.00	1.334	-	-	-0.14	0.302	0.403
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Back	5mm	Ant 1	DSI 3	507000	2535	16.66	18.00	1.361	-	-	-0.03	0.287	0.391
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Left Side	5mm	Ant 1	DSI 3	507000	2535	16.75	18.00	1.334	-	-	0.08	0.011	0.015
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Left Side	5mm	Ant 1	DSI 3	507000	2535	16.66	18.00	1.361	-	-	0.04	0.007	0.010
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Right Side	5mm	Ant 1	DSI 3	507000	2535	16.75	18.00	1.334	-	-	0.16	0.075	0.100
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Right Side	5mm	Ant 1	DSI 3	507000	2535	16.66	18.00	1.361	-	-	-0.02	0.079	0.108
39	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Bottom Side	5mm	Ant 1	DSI 3	507000	2535	16.75	18.00	1.334	-	-	-0.09	0.704	<b>0.939</b>
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Bottom Side	5mm	Ant 1	DSI 3	507000	2535	16.66	18.00	1.361	-	-	0.12	0.605	0.824
	FR1 n7	50M	QPSK	270	0	DFT_SCS 15KHz	Bottom Side	5mm	Ant 1	DSI 3	507000	2535	16.69	18.00	1.352	-	-	0.02	0.603	0.815
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Front	5mm	Ant 2	DSI 3	507000	2535	21.20	22.00	1.202	-	-	0.05	0.460	0.553
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Front	5mm	Ant 2	DSI 3	507000	2535	21.15	22.00	1.216	-	-	0.05	0.457	0.556
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Back	5mm	Ant 2	DSI 3	507000	2535	21.20	22.00	1.202	-	-	0.05	0.688	0.827
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Back	5mm	Ant 2	DSI 3	507000	2535	21.15	22.00	1.216	-	-	0.13	0.601	0.731
	FR1 n7	50M	QPSK	270	0	DFT_SCS 15KHz	Back	5mm	Ant 2	DSI 3	507000	2535	21.03	22.00	1.250	-	-	0.01	0.589	0.736
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Left Side	5mm	Ant 2	DSI 3	507000	2535	21.20	22.00	1.202	-	-	0.16	0.378	0.454
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Left Side	5mm	Ant 2	DSI 3	507000	2535	21.15	22.00	1.216	-	-	0.07	0.511	0.621
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Right Side	5mm	Ant 2	DSI 3	507000	2535	21.20	22.00	1.202	-	-	0.02	0.034	0.041
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Right Side	5mm	Ant 2	DSI 3	507000	2535	21.15	22.00	1.216	-	-	0.13	0.048	0.058
	FR1 n7	50M	QPSK	1	1	DFT_SCS 15KHz	Top Side	5mm	Ant 2	DSI 3	507000	2535	21.20	22.00	1.202	-	-	-0.08	0.746	0.897
	FR1 n7	50M	QPSK	135	68	DFT_SCS 15KHz	Top Side	5mm	Ant 2	DSI 3	507000	2535	21.15	22.00	1.216	-	-	0.18	0.724	0.881
	FR1 n7	50M	QPSK	270	0	DFT_SCS 15KHz	Top Side	5mm	Ant 2	DSI 3	507000	2535	21.03	22.00	1.250	-	-	0.01	0.709	0.886
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 1	DSI 3	519000	2595	16.24	17.60	1.059	-	-	0.04	0.266	0.282
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Front	5mm	Ant 1	DSI 3	519000	2595	16.16	17.60	1.374	-	-	0.13	0.214	0.294
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 1	DSI 3	519000	2595	16.24	17.60	1.059	-	-	0.11	0.490	0.519
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Back	5mm	Ant 1	DSI 3	519000	2595	16.16	17.60	1.374	-	-	0.18	0.390	0.536
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Left Side	5mm	Ant 1	DSI 3	519000	2595	16.24	17.60	1.059	-	-	-0.17	0.043	0.046
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Left Side	5mm	Ant 1	DSI 3	519000	2595	16.16	17.60	1.374	-	-	0.14	0.034	0.047
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Right Side	5mm	Ant 1	DSI 3	519000	2595	16.24	17.60	1.059	-	-	0.04	0.068	0.072
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Right Side	5mm	Ant 1	DSI 3	519000	2595	16.16	17.60	1.374	-	-	-0.03	0.063	0.087
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Bottom Side	5mm	Ant 1	DSI 3	519000	2595	16.24	17.60	1.059	-	-	-0.07	0.681	0.721
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Bottom Side	5mm	Ant 1	DSI 3	519000	2595	16.16	17.60	1.374	-	-	-0.08	0.509	0.699
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 2	DSI 3	519000	2595	20.89	22.00	1.291	-	-	0.07	0.525	0.678
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Front	5mm	Ant 2	DSI 3	519000	2595	20.68	22.00	1.355	-	-	-0.03	0.518	0.702
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 2	DSI 3	519000	2595	20.89	22.00	1.291	-	-	0.04	0.310	0.400
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Back	5mm	Ant 2	DSI 3	519000	2595	20.68	22.00	1.355	-	-	0.03	0.385	0.522
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Left Side	5mm	Ant 2	DSI 3	519000	2595	20.89	22.00	1.291	-	-	0.05	0.448	0.578
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Left Side	5mm	Ant 2	DSI 3	519000	2595	20.68	22.00	1.355	-	-	0.07	0.394	0.534
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Right Side	5mm	Ant 2	DSI 3	519000	2595	20.89	22.00	1.291	-	-	-0.08	0.042	0.054
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Right Side	5mm	Ant 2	DSI 3	519000	2595	20.68	22.00	1.355	-	-	0.04	0.035	0.047
40	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Top Side	5mm	Ant 2	DSI 3	519000	2595	20.89	22.00	1.291	-	-	-0.06	0.726	<b>0.937</b>
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Top Side	5mm	Ant 2	DSI 3	519000	2595	20.68	22.00	1.355	-	-	0.04	0.671	0.909
	FR1 n38	40M	QPSK	100	0	DFT-SCS_30KHz	Top Side	5mm	Ant 2	DSI 3	519000	2595	20.58	22.00	1.387	-	-	-0.11	0.643	0.892
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Bottom Side	5mm	Ant 2	DSI 3	519000	2595	20.89	22.00	1.291	-	-	-0.05	0.057	0.074
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Bottom Side	5mm	Ant 2	DSI 3	519000	2595	20.68	22.00	1.355	-	-	-0.17	0.046	0.062



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>3500MHz~3900MHz</b>																				
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI 3	42590	3500	18.50	19.00	1.122	62.9	1.006	0.07	0.769	0.868
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI 3	42190	3460	18.42	19.00	1.143	62.9	1.006	0.03	0.605	0.696
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI 3	42990	3540	18.35	19.00	1.161	62.9	1.006	0.09	0.671	0.784
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI 3	42590	3500	18.33	19.00	1.167	62.9	1.006	-0.02	0.689	0.809
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI 3	42190	3460	18.28	19.00	1.180	62.9	1.006	0.04	0.611	0.726
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI 3	42990	3540	18.22	19.00	1.197	62.9	1.006	-0.09	0.645	0.777
	LTE Band 42 part 27Q	20M	QPSK	100	0	-	Front	5mm	Ant 4	DSI 3	42590	3500	18.28	19.00	1.180	62.9	1.006	0.12	0.655	0.778
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI 3	42590	3500	18.50	19.00	1.122	62.9	1.006	0.05	0.494	0.558
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 4	DSI 3	42590	3500	18.33	19.00	1.167	62.9	1.006	0.04	0.421	0.494
	LTE Band 42 part 27Q	20M	QPSK	100	0	-	Back	5mm	Ant 4	DSI 3	42590	3500	18.28	19.00	1.180	62.9	1.006	0.06	0.314	0.373
41	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI 3	42590	3500	18.50	19.00	1.122	62.9	1.006	-0.02	0.840	<b>0.948</b>
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI 3	42190	3460	18.42	19.00	1.143	62.9	1.006	0.01	0.811	0.932
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI 3	42990	3540	18.35	19.00	1.161	62.9	1.006	-0.09	0.795	0.929
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI 3	42590	3500	18.33	19.00	1.167	62.9	1.006	0.08	0.730	0.857
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI 3	42190	3460	18.28	19.00	1.180	62.9	1.006	0.02	0.725	0.861
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI 3	42990	3540	18.22	19.00	1.197	62.9	1.006	-0.06	0.694	0.836
	LTE Band 42 part 27Q	20M	QPSK	100	0	-	Left Side	5mm	Ant 4	DSI 3	42590	3500	18.28	19.00	1.180	62.9	1.006	0.01	0.777	0.923
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 3	42590	3500	18.50	19.00	1.122	62.9	1.006	0.08	0.205	0.231
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	DSI 3	42590	3500	18.33	19.00	1.167	62.9	1.006	0.05	0.188	0.221
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 4	DSI 3	42590	3500	18.50	19.00	1.122	62.9	1.006	0.02	0.027	0.030
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 4	DSI 3	42590	3500	18.33	19.00	1.167	62.9	1.006	0.18	0.015	0.018
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 4	DSI 3	656000	3840	15.12	15.90	1.197	-	-	0.01	0.295	0.353
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Front	5mm	Ant 4	DSI 3	656000	3840	15.08	15.90	1.208	-	-	-0.06	0.236	0.285
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 4	DSI 3	656000	3840	15.12	15.90	1.197	-	-	0.07	0.196	0.235
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Back	5mm	Ant 4	DSI 3	656000	3840	15.08	15.90	1.208	-	-	0.06	0.154	0.186
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Left Side	5mm	Ant 4	DSI 3	656000	3840	15.12	15.90	1.197	-	-	0.17	0.692	0.828
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Left Side	5mm	Ant 4	DSI 3	656000	3840	15.08	15.90	1.208	-	-	0.02	0.699	0.844
	FR1 n77 part 27Q	100M	QPSK	270	0	DFT-SCS_30KHz	Left Side	5mm	Ant 4	DSI 3	656000	3840	15.10	15.90	1.202	-	-	0.02	0.554	0.666
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Top Side	5mm	Ant 4	DSI 3	656000	3840	15.12	15.90	1.197	-	-	0.12	0.100	0.120
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Top Side	5mm	Ant 4	DSI 3	656000	3840	15.08	15.90	1.208	-	-	0.07	0.085	0.103
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 4	DSI 3	633334	3500.01	15.06	15.90	1.213	-	-	0.06	0.307	0.373
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Front	5mm	Ant 4	DSI 3	633334	3500.01	15.01	15.90	1.227	-	-	-0.19	0.323	0.396
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 4	DSI 3	633334	3500.01	15.06	15.90	1.213	-	-	0.03	0.208	0.252
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Back	5mm	Ant 4	DSI 3	633334	3500.01	15.01	15.90	1.227	-	-	0.08	0.247	0.303
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Left Side	5mm	Ant 4	DSI 3	633334	3500.01	15.06	15.90	1.213	-	-	0.06	0.700	0.849
42	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Left Side	5mm	Ant 4	DSI 3	633334	3500.01	15.01	15.90	1.227	-	-	0.09	0.752	<b>0.923</b>
	FR1 n77 part 27Q	100M	QPSK	270	0	DFT-SCS_30KHz	Left Side	5mm	Ant 4	DSI 3	633334	3500.01	14.99	15.90	1.233	-	-	-0.06	0.627	0.773
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Top Side	5mm	Ant 4	DSI 3	633334	3500.01	15.06	15.90	1.213	-	-	0.04	0.079	0.096
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Top Side	5mm	Ant 4	DSI 3	633334	3500.01	15.01	15.90	1.227	-	-	-0.04	0.087	0.107



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>WLAN/Bluetooth</b>																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+6	Full Power	6	2437	21.09	23.00	1.552	97.86	1.022	0.02	0.324	0.514
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	Full Power	6	2437	21.09	23.00	1.552	97.86	1.022	0.02	0.308	0.489
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 3+6	Full Power	6	2437	21.09	23.00	1.552	97.86	1.022	-0.12	0.270	0.428
43	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3+6	Standalone DBS WLAN	6	2437	21.09	23.00	1.552	97.86	1.022	0.08	0.461	<b>0.731</b>
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3+6	Simultaneous WLAN+WWAN	6	2437	20.47	22.00	1.422	97.86	1.022	0.09	0.311	0.452
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3+6	Simultaneous WLAN DBS+WWAN	6	2437	18.11	19.50	1.377	97.86	1.022	0.16	0.204	0.287
	Bluetooth	1Mbps	Front	5mm	Ant 3	Full Power	78	2480	15.30	17.00	1.48	76.61	1.305	0.13	0.043	0.083
44	Bluetooth	1Mbps	Back	5mm	Ant 3	Full Power	78	2480	15.30	17.00	1.48	76.61	1.305	0.03	0.066	<b>0.127</b>
	Bluetooth	1Mbps	Right Side	5mm	Ant 3	Full Power	78	2480	15.30	17.00	1.48	76.61	1.305	-0.08	0.035	0.068
	Bluetooth	1Mbps	Top Side	5mm	Ant 3	Full Power	78	2480	15.30	17.00	1.48	76.61	1.305	0.09	0.056	0.108
	Bluetooth	1Mbps	Front	5mm	Ant 6	Full Power	39	2441	14.90	16.50	1.45	76.6	1.305	-0.13	0.006	0.011
	Bluetooth	1Mbps	Back	5mm	Ant 6	Full Power	39	2441	14.90	16.50	1.45	76.6	1.305	0.01	0.062	0.117
	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Full Power	39	2441	14.90	16.50	1.45	76.6	1.305	0.13	0.017	0.032
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Full Power	39	2441	14.90	16.50	1.45	76.6	1.305	-0.1	0.007	0.013
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7	Standalone	42	5210	16.00	17.50	1.41	100	1.000	0.06	0.052	0.073
45	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone	42	5210	16.00	17.50	1.41	100	1.000	0.03	0.753	<b>1.064</b>
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6+7	Standalone	42	5210	16.00	17.50	1.41	100	1.000	0.09	0.089	0.126
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6+7	Standalone	42	5210	16.00	17.50	1.41	100	1.000	0.13	0.144	0.203
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone DBS WLAN	42	5210	14.44	15.50	1.28	100	1.000	0.06	0.507	0.647
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN+WWAN	42	5210	12.93	14.00	1.28	100	1.000	0.03	0.359	0.459
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	42	5210	9.07	10.50	1.39	100	1.000	0.11	0.158	0.220
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7	Standalone	155	5775	14.82	16.50	1.47	100	1.000	0.09	0.032	0.047
46	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone	155	5775	14.82	16.50	1.47	100	1.000	0.06	0.719	<b>1.059</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6+7	Standalone	155	5775	14.82	16.50	1.47	100	1.000	-0.08	0.095	0.140
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6+7	Standalone	155	5775	14.82	16.50	1.47	100	1.000	0.14	0.118	0.174
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone DBS WLAN	155	5775	13.16	15.00	1.53	100	1.000	0.03	0.462	0.706
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN+WWAN	155	5775	12.00	13.50	1.41	100	1.000	0.01	0.352	0.497
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	155	5775	8.58	10.50	1.56	100	1.000	0.03	0.134	0.208



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>750MHz</b>																			
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	23095	707.5	22.99	24.00	1.262	0.03	0.285	0.360
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 4	23095	707.5	22.18	23.00	1.208	0.15	0.160	0.193
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	23095	707.5	22.99	24.00	1.262	0.01	0.394	0.497
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 4	23095	707.5	22.18	23.00	1.208	0.06	0.260	0.314
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 4	23095	707.5	22.69	24.00	1.352	0.02	0.395	0.534
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 2	-	DSI 4	23095	707.5	21.92	23.00	1.282	0.07	0.208	0.267
47	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 4	23095	707.5	22.69	24.00	1.352	-0.03	0.667	<b>0.902</b>
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 2	-	DSI 4	23095	707.5	21.92	23.00	1.282	-0.05	0.342	0.439
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 4	23095	707.5	21.95	23.00	1.274	0.12	0.327	0.416
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	23230	782	22.99	24.00	1.262	0.13	0.486	0.613
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 4	23230	782	21.89	23.00	1.291	-0.06	0.293	0.378
48	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	23230	782	22.99	24.00	1.262	-0.08	0.614	<b>0.775</b>
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 4	23230	782	21.89	23.00	1.291	-0.03	0.427	0.551
<b>835MHz</b>																			
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 1	-	DSI 3	189	836.4	30.12	31.50	1.374	0.05	0.584	0.802
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 1	-	DSI 3	128	824.2	30.07	31.50	1.390	0.01	0.533	0.741
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 1	-	DSI 3	251	848.8	30.04	31.50	1.400	-0.07	0.571	0.799
49	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	-	DSI 3	189	836.4	30.12	31.50	1.374	0.03	0.913	<b>1.255</b>
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	Headset	DSI 3	189	836.4	30.12	31.50	1.374	0.01	0.690	0.948
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	-	DSI 3	128	824.2	30.07	31.50	1.390	0.18	0.855	1.188
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	-	DSI 3	251	848.8	30.04	31.50	1.400	-0.09	0.829	1.160
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	16mm	Ant 1	-	DSI 4	189	836.4	30.69	32.00	1.352	0.01	0.173	0.234
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	17mm	Ant 1	-	DSI 4	189	836.4	30.69	32.00	1.352	0.02	0.177	0.239
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 4	4182	836.4	22.72	24.00	1.343	-0.03	0.605	0.812
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 4	4132	826.4	22.69	24.00	1.352	0.18	0.502	0.679
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 4	4233	846.6	22.57	24.00	1.390	-0.15	0.575	0.799
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 4	4182	836.4	22.72	24.00	1.343	0.07	1.010	1.356
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	DSI 4	4182	836.4	22.72	24.00	1.343	0.01	0.555	0.745
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 4	4132	826.4	22.69	24.00	1.352	0.06	0.832	1.125
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 4	4233	846.6	22.57	24.00	1.390	0.02	0.945	1.314
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 4	4182	836.4	22.69	24.00	1.352	0.05	0.703	0.951
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 4	4132	826.4	22.61	24.00	1.377	0.03	0.655	0.902
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 4	4233	846.6	22.54	24.00	1.400	0.01	0.612	0.857
50	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 4	4182	836.4	22.69	24.00	1.352	0.07	1.030	<b>1.393</b>
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	Headset	DSI 4	4182	836.4	22.69	24.00	1.352	0.07	0.737	0.996
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 4	4132	826.4	22.61	24.00	1.377	0.06	0.808	1.113
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 4	4233	846.6	22.54	24.00	1.400	0.01	0.791	1.107
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	26865	831.5	22.94	24.00	1.276	0.02	0.635	0.811
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	DSI 4	26865	831.5	21.93	23.00	1.279	0.08	0.477	0.610
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 1	-	DSI 4	26865	831.5	21.88	23.00	1.294	-0.07	0.458	0.593
51	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	26865	831.5	22.94	24.00	1.276	0.13	0.966	<b>1.233</b>
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 4	26865	831.5	22.94	24.00	1.276	0.13	0.527	0.673
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	DSI 4	26865	831.5	21.93	23.00	1.279	0.09	0.837	1.071
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 1	-	DSI 4	26865	831.5	21.88	23.00	1.294	0.03	0.811	1.050
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 4	26865	831.5	22.89	24.00	1.291	0.07	0.647	0.835
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 2	-	DSI 4	26865	831.5	21.76	23.00	1.330	0.07	0.454	0.604
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 2	-	DSI 4	26865	831.5	21.65	23.00	1.365	0.12	0.441	0.602
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 4	26865	831.5	22.89	24.00	1.291	0.04	0.924	1.193
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 2	-	DSI 4	26865	831.5	21.76	23.00	1.330	0.05	0.779	1.036
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 2	-	DSI 4	26865	831.5	21.65	23.00	1.365	0.1	0.743	1.014



**FCC SAR Test Report**

**Report No. : FA172703**

	FR1 n5	20M	QPSK	1	1	DFT_SCS 15KHz	Front	5mm	Ant 1	-	DSI 4	167300	836.5	23.42	24.00	1.143	0.07	0.512	0.585
	FR1 n5	20M	QPSK	50	28	DFT_SCS 15KHz	Front	5mm	Ant 1	-	DSI 4	167300	836.5	23.19	24.00	1.205	0.06	0.491	0.592
	FR1 n5	20M	QPSK	1	1	DFT_SCS 15KHz	Back	5mm	Ant 1	-	DSI 4	167300	836.5	23.42	24.00	1.143	0.05	0.870	0.994
	FR1 n5	20M	QPSK	50	28	DFT_SCS 15KHz	Back	5mm	Ant 1	-	DSI 4	167300	836.5	23.19	24.00	1.205	-0.15	0.701	0.845
	FR1 n5	20M	QPSK	100	0	DFT_SCS 15KHz	Back	5mm	Ant 1	-	DSI 4	167300	836.5	22.07	23.00	1.239	0.02	0.654	0.810
	FR1 n5	20M	QPSK	1	1	DFT_SCS 15KHz	Front	5mm	Ant 2	-	DSI 4	167300	836.5	23.10	24.00	1.230	0.18	0.543	0.668
	FR1 n5	20M	QPSK	50	28	DFT_SCS 15KHz	Front	5mm	Ant 2	-	DSI 4	167300	836.5	22.83	24.00	1.309	0.12	0.516	0.676
52	FR1 n5	20M	QPSK	1	1	DFT_SCS 15KHz	Back	5mm	Ant 2	-	DSI 4	167300	836.5	23.10	24.00	1.230	-0.03	0.852	<b>1.048</b>
	FR1 n5	20M	QPSK	50	28	DFT_SCS 15KHz	Back	5mm	Ant 2	-	DSI 4	167300	836.5	22.83	24.00	1.309	0.04	0.737	0.965
	FR1 n5	20M	QPSK	100	0	DFT_SCS 15KHz	Back	5mm	Ant 2	-	DSI 4	167300	836.5	21.50	23.00	1.413	0.09	0.571	0.807





Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>1750MHz</b>																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1413	1732.6	17.77	18.10	1.079	0.08	0.976	1.053
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1312	1712.4	17.61	18.10	1.119	0.02	0.914	1.023
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1513	1752.6	17.75	18.10	1.084	-0.16	0.982	1.064
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1413	1732.6	17.77	18.10	1.079	-0.16	1.080	1.165
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1312	1712.4	17.61	18.10	1.119	0.02	1.020	1.142
53	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1513	1752.6	17.75	18.10	1.084	0.01	1.140	1.236
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	DSI 3	1513	1752.6	17.75	18.10	1.084	0.03	0.779	0.844
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	1513	1752.6	22.75	24.00	1.334	0.05	0.713	0.951
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	1312	1712.4	22.81	24.00	1.315	0.07	0.605	0.796
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	1413	1732.6	22.87	24.00	1.297	-0.12	0.677	0.878
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 1	-	DSI 4	1513	1752.6	22.75	24.00	1.334	0.04	0.669	0.892
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 1	-	DSI 4	1312	1712.4	22.81	24.00	1.315	0.01	0.588	0.773
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 1	-	DSI 4	1413	1732.6	22.87	24.00	1.297	-0.05	0.633	0.821
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.76	18.30	1.426	-0.09	0.615	0.877
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132072	1720	16.55	18.30	1.496	0.14	0.601	0.899
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132572	1770	16.51	18.30	1.510	0.02	0.592	0.894
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.72	18.30	1.439	0.03	0.558	0.803
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132072	1720	16.49	18.30	1.517	-0.15	0.578	0.877
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132572	1770	16.41	18.30	1.545	0.13	0.581	0.898
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	16.55	18.30	1.496	0.15	0.551	0.824
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.76	18.30	1.426	-0.03	0.863	1.230
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	132322	1745	16.76	18.30	1.426	0.01	0.512	0.730
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	16.55	18.30	1.496	0.14	0.801	1.198
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	16.51	18.30	1.510	0.02	0.791	1.194
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.72	18.30	1.439	0.02	0.781	1.124
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	16.49	18.30	1.517	-0.15	0.748	1.135
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	16.41	18.30	1.545	0.13	0.729	1.126
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	16.55	18.30	1.496	0.15	0.755	1.130
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	132072	1720	22.85	24.00	1.303	0.01	0.703	0.916
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	132322	1745	22.92	24.00	1.282	0.03	0.689	0.884
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	132572	1770	22.76	24.00	1.330	0.05	0.659	0.877
	LTE Band 66	20M	QPSK	100	0	-	Front	16mm	Ant 1	-	DSI 4	132322	1745	22.03	23.00	1.250	-0.07	0.571	0.714
	LTE Band 66	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	132322	1745	22.92	24.00	1.282	0.02	0.716	0.918
	LTE Band 66	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	132072	1720	22.85	24.00	1.303	0.01	0.658	0.857
	LTE Band 66	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	132572	1770	22.76	24.00	1.330	0.09	0.671	0.893
	LTE Band 66	20M	QPSK	100	0	-	Back	17mm	Ant 1	-	DSI 4	132322	1745	22.03	23.00	1.250	-0.04	0.598	0.748
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	18.09	19.40	1.352	0.04	0.534	0.722
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	17.91	19.40	1.409	-0.03	0.504	0.710
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	18.09	19.40	1.352	0.12	0.818	1.106
54	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132072	1720	17.97	19.40	1.390	0.02	0.904	1.257
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	132072	1720	17.97	19.40	1.390	0.02	0.609	0.846
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132572	1770	17.91	19.40	1.409	0.07	0.710	1.001
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	17.91	19.40	1.409	0.04	0.812	1.144
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132072	1720	17.81	19.40	1.442	0.12	0.819	1.181
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132572	1770	17.88	19.40	1.419	-0.19	0.715	1.015
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	17.76	19.40	1.459	0.05	0.810	1.182
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 2	-	DSI 4	132322	1745	22.85	24.00	1.303	0.04	0.406	0.529
	LTE Band 66	20M	QPSK	1	0	-	Back	17mm	Ant 2	-	DSI 4	132072	1720	22.67	24.00	1.358	0.08	0.587	0.797
	FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.65	18.30	1.161	0.1	0.703	0.816
	FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.52	18.30	1.197	0.09	0.622	0.744
	FR1 n66	40M	QPSK	216	0	DFT_SCS 15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.45	18.30	1.216	0.03	0.612	0.744
55	FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.65	18.30	1.161	-0.06	1.080	1.254



**FCC SAR Test Report**

**Report No. : FA172703**

FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	5mm	Ant 1	Headset	DSI 3	349000	1745	17.65	18.30	1.161	0.07	0.794	0.922
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.52	18.30	1.197	0.09	0.806	0.965
FR1 n66	40M	QPSK	216	0	DFT_SCS 15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.45	18.30	1.216	0.06	0.756	0.919
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Front	16mm	Ant 1	-	DSI 4	349000	1745	23.30	24.00	1.175	0.03	0.549	0.645
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	17mm	Ant 1	-	DSI 4	349000	1745	23.30	24.00	1.175	0.08	0.768	0.902
FR1 n66	40M	QPSK	216	0	DFT_SCS 15KHz	Back	17mm	Ant 1	-	DSI 4	349000	1745	22.10	23.00	1.230	0.09	0.544	0.669
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Front	5mm	Ant 2	-	DSI 3	349000	1745	19.61	20.50	1.227	-0.09	0.472	0.579
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Front	5mm	Ant 2	-	DSI 3	349000	1745	19.49	20.50	1.262	0.07	0.421	0.531
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	5mm	Ant 2	-	DSI 3	349000	1745	19.61	20.50	1.227	-0.08	0.958	1.176
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Back	5mm	Ant 2	-	DSI 3	349000	1745	19.49	20.50	1.262	0.07	0.712	0.898
FR1 n66	40M	QPSK	216	0	DFT_SCS 15KHz	Back	5mm	Ant 2	-	DSI 3	349000	1745	19.39	20.50	1.291	-0.08	0.691	0.892
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Front	16mm	Ant 2	-	DSI 4	349000	1745	22.28	23.00	1.180	0.06	0.382	0.451
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	17mm	Ant 2	-	DSI 4	349000	1745	22.28	23.00	1.180	0.01	0.536	0.633





**FCC SAR Test Report**

**Report No. : FA172703**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>1900MHz</b>																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	-	DSI 3	661	1880	19.83	20.30	1.114	-0.15	0.433	0.482
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	661	1880	19.83	20.30	1.114	0.06	0.803	0.895
56	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	512	1850.2	19.79	20.30	1.125	0.01	1.000	<b>1.125</b>
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	810	1909.8	19.76	20.30	1.132	-0.09	0.729	0.826
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	16mm	Ant 1	-	DSI 4	661	1880	27.79	28.00	1.050	0.07	0.389	0.408
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	17mm	Ant 1	-	DSI 4	512	1850.2	27.71	28.00	1.069	0.09	0.636	0.680
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	9400	1880	16.29	17.50	1.321	0.04	0.766	1.012
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	9262	1852.4	16.11	17.50	1.377	0.04	0.691	0.952
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	9538	1907.6	16.15	17.50	1.365	0.07	0.766	1.045
57	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9400	1880	16.29	17.50	1.321	-0.17	0.935	<b>1.235</b>
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	DSI 3	9400	1880	16.29	17.50	1.321	0.01	0.611	0.807
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9262	1852.4	16.11	17.50	1.377	0.08	0.870	1.198
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9538	1907.6	16.15	17.50	1.365	0.09	0.860	1.174
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	9400	1880	22.93	24.00	1.279	0.03	0.644	0.824
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	9262	1852.4	22.91	24.00	1.285	0.02	0.631	0.811
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	9538	1907.6	22.84	24.00	1.306	0.05	0.628	0.820
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 1	-	DSI 4	9400	1880	22.93	24.00	1.279	0.01	0.731	0.935
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 1	-	DSI 4	9262	1852.4	22.91	24.00	1.285	0.03	0.659	0.847
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 1	-	DSI 4	9538	1907.6	22.84	24.00	1.306	0.09	0.698	0.912
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	18900	1880	16.11	16.70	1.146	0.11	0.834	0.955
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	18700	1860	16.01	16.70	1.172	0.16	0.853	1.000
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	19100	1900	15.94	16.70	1.191	0.06	0.842	1.003
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	18900	1880	16.07	16.70	1.156	0.03	0.812	0.939
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	18700	1860	16.05	16.70	1.161	0.03	0.809	0.940
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	19100	1900	16.03	16.70	1.167	0.05	0.811	0.946
	LTE Band 2	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	18900	1880	16.03	16.70	1.167	0.03	0.807	0.942
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	16.11	16.70	1.146	-0.17	0.900	1.031
58	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	16.01	16.70	1.172	0.03	1.050	<b>1.231</b>
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	18700	1860	16.01	16.70	1.172	0.01	0.665	0.780
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	19100	1900	15.94	16.70	1.191	0.02	0.918	1.094
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	16.07	16.70	1.156	0.04	0.884	1.022
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	16.05	16.70	1.161	0.03	0.811	0.942
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	19100	1900	16.03	16.70	1.167	0.05	0.801	0.935
	LTE Band 2	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	16.03	16.70	1.167	0.06	0.813	0.949
	LTE Band 2	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	19100	1900	22.95	24.00	1.274	0.05	0.667	0.849
	LTE Band 2	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	18700	1860	23.17	24.00	1.211	0.01	0.544	0.659
	LTE Band 2	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	18900	1880	23.19	24.00	1.205	0.06	0.571	0.688
	LTE Band 2	20M	QPSK	100	0	-	Front	16mm	Ant 1	-	DSI 4	18900	1880	22.18	23.00	1.208	-0.02	0.541	0.653
	LTE Band 2	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	18700	1860	23.17	24.00	1.211	0.01	0.801	0.970
	LTE Band 2	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	18900	1880	23.19	24.00	1.205	0.07	0.765	0.922
	LTE Band 2	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	19100	1900	22.95	24.00	1.274	-0.08	0.741	0.944
	LTE Band 2	20M	QPSK	100	0	-	Back	17mm	Ant 1	-	DSI 4	18900	1880	22.18	23.00	1.208	0.02	0.736	0.889



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>2600MHz</b>																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	19.77	21.00	1.327	-	-	-0.06	0.525	0.697
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	19.75	21.00	1.334	-	-	0.05	0.514	0.685
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	19.77	21.00	1.327	-	-	0.01	0.781	1.037
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	19.71	21.00	1.346	-	-	0.14	0.781	1.051
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	19.67	21.00	1.358	-	-	0.01	0.919	1.248
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	21350	2560	19.67	21.00	1.358	-	-	0.01	0.512	0.695
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	19.75	21.00	1.334	-	-	0.05	0.733	0.977
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	19.66	21.00	1.361	-	-	-0.06	0.721	0.982
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	19.63	21.00	1.371	-	-	0.09	0.811	1.112
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	19.73	21.00	1.340	-	-	0.06	0.755	1.011
	LTE Band 7	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	21100	2535	23.31	24.00	1.172	-	-	0.02	0.581	0.681
	LTE Band 7	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	21350	2560	23.19	24.00	1.205	-	-	0.01	0.571	0.688
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350+21152	2560+2540.2	19.67	21.00	1.358	-	-	0.01	0.812	1.103
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 4	21100	2535	22.44	24.00	1.432	-	-	0.07	0.691	0.990
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 4	20850	2510	22.38	24.00	1.452	-	-	0.05	0.662	0.961
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 4	21350	2560	22.36	24.00	1.459	-	-	0.05	0.731	1.066
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 4	21100	2535	21.43	23.00	1.435	-	-	0.07	0.521	0.748
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI 4	21100	2535	21.42	23.00	1.439	-	-	0.04	0.511	0.735
59	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 4	21100	2535	22.44	24.00	1.432	-	-	0.02	0.899	1.288
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 4	21100	2535	22.44	24.00	1.432	-	-	0.02	0.620	0.888
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 4	20850	2510	22.38	24.00	1.452	-	-	0.01	0.809	1.175
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 4	21350	2560	22.36	24.00	1.459	-	-	0.04	0.819	1.195
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 4	21100	2535	21.43	23.00	1.435	-	-	0.03	0.711	1.021
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 4	20850	2510	21.30	23.00	1.479	-	-	0.08	0.701	1.037
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 4	21350	2560	21.27	23.00	1.489	-	-	0.05	0.698	1.040
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 4	21100	2535	21.42	23.00	1.439	-	-	0.07	0.677	0.974
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 4	21100+20902	2535+2515.2	22.29	24.00	1.483	-	-	0.01	0.759	1.125
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	23.07	23.40	1.079	62.9	1.006	0.04	0.948	1.029
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	23.01	23.40	1.094	62.9	1.006	0.03	0.992	1.092
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	23.02	23.40	1.091	62.9	1.006	0.05	0.999	1.097
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	22.85	23.40	1.135	62.9	1.006	0.01	0.851	0.972
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	22.96	23.40	1.107	62.9	1.006	0.01	0.831	0.925
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	22.18	23.00	1.208	62.9	1.006	0.05	0.621	0.755
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	22.12	23.00	1.225	62.9	1.006	0.02	0.651	0.802
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	22.12	23.00	1.225	62.9	1.006	0.01	0.609	0.750
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	21.87	23.00	1.297	62.9	1.006	0.03	0.591	0.771
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	22.10	23.00	1.230	62.9	1.006	0.01	0.603	0.746
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	22.17	23.00	1.211	62.9	1.006	0.05	0.606	0.738
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	23.07	23.40	1.079	62.9	1.006	0.01	0.912	0.990
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	23.01	23.40	1.094	62.9	1.006	0.07	1.036	1.140
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	23.02	23.40	1.091	62.9	1.006	0.02	0.896	0.984
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	22.85	23.40	1.135	62.9	1.006	0.07	1.080	1.233
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	41055	2636.5	22.85	23.40	1.135	62.9	1.006	0.01	0.713	0.814
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	22.96	23.40	1.107	62.9	1.006	0.05	0.896	0.997
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	22.18	23.00	1.208	62.9	1.006	0.02	0.628	0.763
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	22.12	23.00	1.225	62.9	1.006	0.03	0.601	0.740
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	22.12	23.00	1.225	62.9	1.006	0.05	0.633	0.780
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	21.87	23.00	1.297	62.9	1.006	0.04	0.621	0.810
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	22.10	23.00	1.230	62.9	1.006	0.01	0.589	0.729
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	22.17	23.00	1.211	62.9	1.006	0.02	0.608	0.740
	LTE Band 41	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	40185	2549.5	23.30	24.00	1.175	62.9	1.006	0.01	0.293	0.346



**FCC SAR Test Report**

**Report No. : FA172703**

	LTE Band 41	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	41055	2636.5	23.28	24.00	1.180	62.9	1.006	0.05	0.290	0.344
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055+41253	2636.5+2616.7	22.79	23.40	1.151	62.9	1.006	0.03	0.890	1.030
60	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	24.36	25.00	1.159	42.9	1.009	-0.04	1.080	<b>1.263</b>
	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	41055	2636.5	24.36	25.00	1.159	42.9	1.009	0.05	0.731	0.855
	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	41055	2636.5	26.34	27.00	1.164	42.9	1.009	0.05	0.339	0.398
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	21.28	22.70	1.387	-	-	0.01	0.782	1.084
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	21.20	22.70	1.413	-	-	0.08	0.649	0.917
	FR1 n7	50M	QPSK	270	0	DFT_SCS_15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	21.23	22.00	1.194	-	-	0.08	0.622	0.743
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	21.28	22.70	1.387	-	-	0.05	0.824	1.143
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	21.20	22.70	1.413	-	-	0.05	0.781	1.103
	FR1 n7	50M	QPSK	270	0	DFT_SCS_15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	21.23	22.00	1.194	-	-	0.11	0.691	0.825
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Front	16mm	Ant 1	-	DSI 4	507000	2535	23.72	24.00	1.067	-	-	0.03	0.325	0.347
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Back	17mm	Ant 1	-	DSI 4	507000	2535	23.72	24.00	1.067	-	-	0.08	0.304	0.324
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Front	5mm	Ant 2	-	DSI 4	507000	2535	22.98	24.00	1.265	-	-	0.06	0.763	0.965
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Front	5mm	Ant 2	-	DSI 4	507000	2535	22.95	24.00	1.274	-	-	0.05	0.723	0.921
61	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Back	5mm	Ant 2	-	DSI 4	507000	2535	22.98	24.00	1.265	-	-	0.03	0.932	<b>1.179</b>
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Back	5mm	Ant 2	-	DSI 4	507000	2535	22.95	24.00	1.274	-	-	0.07	0.909	1.158
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 1	-	DSI 3	519000	2595	20.39	21.40	1.059	-	-	0.07	0.571	0.605
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Front	5mm	Ant 1	-	DSI 3	519000	2595	20.34	21.40	1.374	-	-	0.05	0.426	0.585
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 1	-	DSI 3	519000	2595	20.39	21.40	1.059	-	-	0.01	0.974	1.031
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Back	5mm	Ant 1	-	DSI 3	519000	2595	20.34	21.40	1.374	-	-	0.04	0.715	0.982
	FR1 n38	40M	QPSK	100	0	DFT-SCS_30KHz	Back	5mm	Ant 1	-	DSI 3	519000	2595	20.25	21.40	1.374	-	-	0.09	0.712	0.978
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	16mm	Ant 1	-	DSI 4	519000	2595	23.75	24.00	1.059	-	-	0.01	0.323	0.342
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	17mm	Ant 1	-	DSI 4	519000	2595	23.75	24.00	1.059	-	-	0.01	0.340	0.360
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 2	-	DSI 3	519000	2595	21.51	22.80	1.374	-	-	0.01	0.792	1.088
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Front	5mm	Ant 2	-	DSI 3	519000	2595	21.22	22.80	1.374	-	-	0.02	0.771	1.059
62	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 2	-	DSI 3	519000	2595	21.51	22.80	1.374	-	-	0.01	0.919	<b>1.263</b>
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 2	Headset	DSI 3	519000	2595	21.51	22.80	1.374	-	-	0.06	0.673	0.925
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Back	5mm	Ant 2	-	DSI 3	519000	2595	21.22	22.80	1.374	-	-	0.04	0.821	1.128
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	16mm	Ant 2	-	DSI 4	519000	2595	22.69	24.00	1.374	-	-	0.06	0.108	0.148
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	17mm	Ant 2	-	DSI 4	519000	2595	22.69	24.00	1.374	-	-	0.01	0.113	0.155



**FCC SAR Test Report**

**Report No. : FA172703**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>3500MHz~3900MHz</b>																					
63	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	42590	3500	22.98	23.60	1.153	62.9	1.006	-0.02	1.090	<b>1.265</b>
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	Headset	DSI 3	42590	3500	22.98	23.60	1.153	62.9	1.006	-0.05	0.818	0.949
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	42190	3460	22.82	23.60	1.197	62.9	1.006	0.09	0.960	1.156
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	42990	3540	22.91	23.60	1.172	62.9	1.006	0.04	0.966	1.139
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI 3	42590	3500	22.79	23.60	1.205	62.9	1.006	0.17	0.773	0.937
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI 3	42190	3460	22.69	23.60	1.233	62.9	1.006	-0.13	0.852	1.057
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI 3	42990	3540	22.71	23.60	1.227	62.9	1.006	0.02	0.798	0.985
	LTE Band 42 part 27Q	20M	QPSK	100	0	-	Front	5mm	Ant 4	-	DSI 3	42590	3500	22.76	23.60	1.213	62.9	1.006	0.04	0.707	0.863
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	42590	3500	22.98	23.60	1.153	62.9	1.006	0.06	0.601	0.697
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	42590	3500	22.79	23.60	1.205	62.9	1.006	0.04	0.404	0.490
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	16mm	Ant 4	-	DSI 4	42590	3500	23.82	25.00	1.312	62.9	1.006	0.09	0.276	0.364
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Back	17mm	Ant 4	-	DSI 4	42590	3500	23.82	25.00	1.312	62.9	1.006	-0.13	0.226	0.298
	FR1 n77 part 27O	100M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 4	-	DSI 3	656000	3840	18.95	20.20	1.334	-	-	-0.07	0.805	1.073
	FR1 n77 part 27O	100M	QPSK	135	69	DFT-SCS_30KHz	Front	5mm	Ant 4	-	DSI 3	656000	3840	18.84	20.20	1.368	-	-	0.01	0.755	1.033
	FR1 n77 part 27O	100M	QPSK	270	0	DFT-SCS_30KHz	Front	5mm	Ant 4	-	DSI 3	656000	3840	18.81	20.20	1.377	-	-	0.06	0.733	1.009
	FR1 n77 part 27O	100M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 4	-	DSI 3	656000	3840	18.95	20.20	1.334	-	-	0.09	0.761	1.015
	FR1 n77 part 27O	100M	QPSK	135	69	DFT-SCS_30KHz	Back	5mm	Ant 4	-	DSI 3	656000	3840	18.84	20.20	1.368	-	-	0.01	0.702	0.960
	FR1 n77 part 27O	100M	QPSK	270	0	DFT-SCS_30KHz	Back	5mm	Ant 4	-	DSI 3	656000	3840	18.81	20.20	1.377	-	-	0.13	0.712	0.981
	FR1 n77 part 27O	100M	QPSK	1	1	DFT-SCS_30KHz	Front	16mm	Ant 4	-	DSI 4	656000	3840	22.69	24.00	1.352	-	-	0.08	0.196	0.265
	FR1 n77 part 27O	100M	QPSK	1	1	DFT-SCS_30KHz	Back	17mm	Ant 4	-	DSI 4	656000	3840	22.69	24.00	1.352	-	-	0.07	0.200	0.270
64	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 4	-	DSI 3	633334	3500.01	18.98	20.20	1.324	-	-	-0.04	0.931	<b>1.233</b>
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	5mm	Ant 4	Headset	DSI 3	633334	3500.01	18.98	20.20	1.324	-	-	-0.19	0.679	0.899
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Front	5mm	Ant 4	-	DSI 3	633334	3500.01	18.88	20.20	1.355	-	-	0.01	0.812	1.100
	FR1 n77 part 27Q	100M	QPSK	270	0	DFT-SCS_30KHz	Front	5mm	Ant 4	-	DSI 3	633334	3500.01	18.85	20.20	1.365	-	-	0.05	0.809	1.104
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Back	5mm	Ant 4	-	DSI 3	633334	3500.01	18.98	20.20	1.324	-	-	0.05	0.689	0.912
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Back	5mm	Ant 4	-	DSI 3	633334	3500.01	18.88	20.20	1.355	-	-	0.04	0.659	0.893
	FR1 n77 part 27Q	100M	QPSK	270	0	DFT-SCS_30KHz	Back	5mm	Ant 4	-	DSI 3	633334	3500.01	18.85	20.20	1.365	-	-	0.14	0.613	0.836
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	16mm	Ant 4	-	DSI 4	633334	3500.01	22.79	24.00	1.321	-	-	0.09	0.199	0.263
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Back	17mm	Ant 4	-	DSI 4	633334	3500.01	22.79	24.00	1.321	-	-	0.01	0.233	0.308



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>WLAN/Bluetooth</b>																
65	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+6	Full Power	6	2437	21.09	23.00	1.55	97.86	1.022	0.02	0.324	<b>0.514</b>
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	Full Power	6	2437	21.09	23.00	1.55	97.86	1.022	0.01	0.308	0.489
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+6	Simultaneous WLAN DBS+WWAN	6	2437	19.05	21.00	1.57	97.86	1.022	0.06	0.172	0.275
	WLAN2.4GHz	802.11b 1Mbps	Front	16mm	Ant 3+6	Full Power	6	2437	21.09	23.00	1.55	97.86	1.022	0.09	0.080	0.127
	WLAN2.4GHz	802.11b 1Mbps	Back	17mm	Ant 3+6	Full Power	6	2437	21.09	23.00	1.55	97.86	1.022	0.03	0.074	0.117
	Bluetooth	1Mbps	Front	5mm	Ant 3	Full Power	78	2480	15.30	17.00	1.48	76.61	1.305	0.13	0.043	0.083
66	Bluetooth	1Mbps	Back	5mm	Ant 3	Full Power	78	2480	15.30	17.00	1.48	76.61	1.305	0.03	0.066	<b>0.127</b>
	Bluetooth	1Mbps	Front	5mm	Ant 6	Full Power	39	2441	14.90	16.50	1.45	76.6	1.305	-0.13	0.006	0.011
	Bluetooth	1Mbps	Back	5mm	Ant 6	Full Power	39	2441	14.90	16.50	1.45	76.6	1.305	0.01	0.062	0.117
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7	Standalone	42	5210	16.00	17.50	1.41	100	1.000	0.06	0.052	0.073
67	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone	42	5210	16.00	17.50	1.41	100	1.000	0.03	0.753	<b>1.064</b>
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	DBS WLAN	42	5210	14.44	15.50	1.28	100	1.000	0.06	0.507	0.647
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN+WWAN	42	5210	12.93	14.00	1.28	100	1.000	0.03	0.359	0.459
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	42	5210	9.07	10.50	1.39	100	1.000	0.11	0.158	0.220
	WLAN5.2GHz	802.11a 6Mbps	Front	16mm	Ant 6+7	Full Power	44	5220	20.31	22.00	1.47	99.27	1.007	0.07	0.272	0.404
	WLAN5.2GHz	802.11a 6Mbps	Back	17mm	Ant 6+7	Full Power	44	5220	20.31	22.00	1.47	99.27	1.007	0.01	0.616	0.915
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7	Standalone	58	5290	16.40	17.50	1.29	100	1.000	0.06	0.044	0.057
68	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone	58	5290	16.40	17.50	1.29	100	1.000	0.01	0.860	<b>1.108</b>
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	DBS WLAN	58	5290	13.95	15.50	1.43	100	1.000	0.06	0.504	0.720
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN+WWAN	58	5290	12.19	14.00	1.52	100	1.000	0.03	0.327	0.496
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	58	5290	8.55	10.50	1.57	100	1.000	0.02	0.172	0.269
	WLAN5.3GHz	802.11a 6Mbps	Front	16mm	Ant 6+7	Full Power	56	5280	20.08	22.00	1.56	99.27	1.007	0.09	0.267	0.419
	WLAN5.3GHz	802.11a 6Mbps	Back	17mm	Ant 6+7	Full Power	56	5280	20.08	22.00	1.56	99.27	1.007	0.01	0.521	0.817
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7	Standalone	106	5530	13.38	15.00	1.45	100	1.000	0.03	0.034	0.049
69	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone	106	5530	13.38	15.00	1.45	100	1.000	0.01	0.809	<b>1.175</b>
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	DBS WLAN	106	5530	10.89	12.50	1.45	100	1.000	0.05	0.484	0.701
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN+WWAN	106	5530	9.95	11.50	1.43	100	1.000	0.03	0.342	0.489
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	106	5530	7.40	9.00	1.45	100	1.000	0.08	0.203	0.293
	WLAN5.5GHz	802.11a 6Mbps	Front	16mm	Ant 6+7	Full Power	140	5700	20.33	22.00	1.47	99.27	1.007	0.08	0.328	0.485
	WLAN5.5GHz	802.11a 6Mbps	Back	17mm	Ant 6+7	Full Power	140	5700	20.33	22.00	1.47	99.27	1.007	0.01	0.601	0.888
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7	Standalone	155	5775	14.82	16.50	1.47	100	1.000	0.09	0.032	0.047
70	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Standalone	155	5775	14.82	16.50	1.47	100	1.000	0.06	0.719	<b>1.059</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	DBS WLAN	155	5775	13.16	15.00	1.53	100	1.000	0.03	0.462	0.706
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN+WWAN	155	5775	12.00	13.50	1.41	100	1.000	0.01	0.352	0.497
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	155	5775	8.58	10.50	1.56	100	1.000	0.03	0.134	0.208
	WLAN5.8GHz	802.11a 6Mbps	Front	16mm	Ant 6+7	Full Power	157	5785	20.37	22.00	1.45	99.27	1.007	0.03	0.354	0.518
	WLAN5.8GHz	802.11a 6Mbps	Back	17mm	Ant 6+7	Full Power	157	5785	20.37	22.00	1.45	99.27	1.007	0.02	0.503	0.737

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m <sup>2</sup> )
71	WLAN6GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	-0.03	0.156	<b>0.228</b>	1.21
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	0.01	0.149	0.217	1.02
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7	Full Power	15	6025	16.75	18.50	1.50	100	1.00	-0.02	0.033	0.049	0.343
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7	Full Power	47	6185	16.09	18.50	1.74	100	1.00	0.01	0.017	0.030	0.163
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7	Full Power	175	6825	15.61	18.50	1.95	100	1.00	0.07	0.046	0.089	0.186
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7	Full Power	207	6985	15.40	18.50	2.04	100	1.00	-0.03	0.093	0.190	0.291





16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
<b>850MHz</b>																			
72	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 1	DSI 4	189	836.4	30.69	32.00	1.352	0.04	2.010	<b>2.718</b>	
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 1	DSI 4	128	824.2	30.45	32.00	1.429	0.05	1.880	2.686	
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 1	DSI 4	251	848.8	30.43	32.00	1.435	0.08	1.790	2.570	
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 1	DSI 6 Simultaneous	189	836.4	29.52	31.10	1.439	0.06	1.590	2.288	
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	0mm	Ant 1	DSI 4	128	824.2	30.45	32.00	1.429	0.03	1.150	1.643	
73	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 4	4182	836.4	22.72	24.00	1.343	-0.04	2.230	<b>2.994</b>	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 4	4132	826.4	22.69	24.00	1.352	0.09	2.050	2.772	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 4	4233	846.6	22.57	24.00	1.390	0.08	2.070	2.877	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6 Simultaneous	4182	836.4	22.42	22.70	1.067	-0.04	1.760	1.877	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1413	1732.6	19.99	20.70	1.178	-0.17	2.080	2.449	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1312	1712.4	19.91	20.70	1.199	-0.04	2.090	2.507	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1513	1752.6	19.94	20.70	1.191	0.13	2.000	2.382	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1413	1732.6	19.99	20.70	1.178	0.13	2.210	2.603	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1312	1712.4	19.91	20.70	1.199	0.1	2.150	2.579	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1513	1752.6	19.94	20.70	1.191	0.08	2.160	2.573	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1413	1732.6	19.99	20.70	1.178	0.06	2.470	2.909	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1312	1712.4	19.91	20.70	1.199	0.04	2.530	3.035	
74	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1513	1752.6	19.94	20.70	1.191	0.09	2.630	<b>3.133</b>	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6 Simultaneous	1513	1752.6	18.47	19.20	1.183	0.07	1.880	2.224	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	6mm	Ant 1	DSI 4	1312	1712.4	22.81	24.00	1.315	0.03	1.500	1.973	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	8mm	Ant 1	DSI 4	1413	1732.6	22.87	24.00	1.297	0.01	1.540	1.998	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 4	1513	1752.6	22.75	24.00	1.334	0.05	1.600	2.134	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 4	1312	1712.4	22.81	24.00	1.315	0.03	1.540	2.025	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 4	1413	1732.6	22.87	24.00	1.297	0.01	1.490	1.933	
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	20.19	21.10	1.233	0.05	1.930	2.380	
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132072	1720	20.09	21.10	1.262	-0.12	2.060	2.599	
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132572	1770	20.16	21.10	1.242	-0.08	1.980	2.458	
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	20.12	21.10	1.253	0.09	1.950	2.444	
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132072	1720	20.05	21.10	1.274	0.01	1.880	2.394	
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132572	1770	20.11	21.10	1.256	0.08	1.810	2.273	
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	20.11	21.10	1.256	0.08	1.890	2.374	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	20.19	21.10	1.233	0.13	2.010	2.479	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132072	1720	20.09	21.10	1.262	0.03	1.980	2.498	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132572	1770	20.16	21.10	1.242	0.06	1.980	2.458	
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	20.12	21.10	1.253	-0.15	2.030	2.544	
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132072	1720	20.05	21.10	1.274	-0.06	1.970	2.509	
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132572	1770	20.11	21.10	1.256	-0.05	2.010	2.525	
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	20.11	21.10	1.256	0.01	1.980	2.487	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	132322	1745	20.19	21.10	1.233	0.16	2.290	2.824	
75	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	132072	1720	20.09	21.10	1.262	-0.09	2.410	<b>3.041</b>	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	132572	1770	20.16	21.10	1.242	0.05	2.300	2.856	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	132322	1745	20.12	21.10	1.253	-0.07	2.110	2.644	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	132072	1720	20.05	21.10	1.274	-0.19	2.210	2.814	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	132572	1770	20.11	21.10	1.256	0.06	2.090	2.625	
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	DSI 6	132322	1745	20.11	21.10	1.256	-0.1	1.990	2.499	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6 Simultaneous	132072	1720	18.52	19.60	1.282	0.01	1.820	2.334	
	LTE Band 66	20M	QPSK	1	0	-	Front	6mm	Ant 1	DSI 4	132072	1720	22.85	24.00	1.303	0.04	1.520	1.981	
	LTE Band 66	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	132322	1745	22.92	24.00	1.282	0.08	1.590	2.039	
	LTE Band 66	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	132072	1720	22.85	24.00	1.303	0.03	1.490	1.942	
	LTE Band 66	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	132572	1770	22.76	24.00	1.330	0.01	1.550	2.062	
	LTE Band 66	20M	QPSK	50	0	-	Back	8mm	Ant 1	DSI 4	132322	1745	22.04	23.00	1.247	-0.04	1.280	1.597	





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LTE Band 66	20M	QPSK	50	0	-	Back	8mm	Ant 1	DSI 4	132072	1720	21.86	23.00	1.300	0.07	1.350	1.755	
LTE Band 66	20M	QPSK	50	0	-	Back	8mm	Ant 1	DSI 4	132572	1770	21.72	23.00	1.343	0.09	1.290	1.732	
LTE Band 66	20M	QPSK	100	0	-	Back	8mm	Ant 1	DSI 4	132322	1745	22.03	23.00	1.250	0.02	1.330	1.663	
LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 4	132072	1720	22.85	24.00	1.303	0.01	1.630	2.124	
LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 4	132322	1745	22.92	24.00	1.282	0.01	1.630	2.090	
LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 4	132572	1770	22.76	24.00	1.330	0.07	1.530	2.036	
LTE Band 66	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 1	DSI 4	132322	1745	22.03	23.00	1.250	-0.08	1.370	1.713	
LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	132322	1745	21.59	22.50	1.233	-0.18	1.410	1.739	
LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	132322	1745	21.45	22.50	1.274	0.01	1.330	1.694	
LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	132322	1745	21.59	22.50	1.233	-0.02	1.850	2.281	
LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	132072	1720	21.41	22.50	1.285	0.07	2.020	2.596	
LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	132572	1770	21.48	22.50	1.265	0.13	1.610	2.036	
LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	132322	1745	21.45	22.50	1.274	0.04	1.670	2.127	
LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	132072	1720	21.37	22.50	1.297	0.03	1.510	1.959	
LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	132572	1770	21.31	22.50	1.315	-0.02	1.450	1.907	
LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	132322	1745	21.44	22.50	1.276	0.06	1.590	2.030	
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	132322	1745	21.59	22.50	1.233	0.04	2.320	2.861	
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	132072	1720	21.41	22.50	1.285	0.15	2.150	2.763	
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	132572	1770	21.48	22.50	1.265	-0.02	2.170	2.744	
LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 6	132322	1745	21.45	22.50	1.274	0.06	2.080	2.649	
LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 6	132072	1720	21.37	22.50	1.297	0.11	1.910	2.478	
LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 6	132572	1770	21.31	22.50	1.315	0.06	1.880	2.473	
LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 2	DSI 6	132322	1745	21.44	22.50	1.276	0.09	1.900	2.425	
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6 Simultaneous	132322	1745	19.99	21.00	1.262	-0.03	1.400	1.767	
LTE Band 66	20M	QPSK	1	0	-	Front	6mm	Ant 2	DSI 4	132322	1745	22.85	24.00	1.303	0.06	0.750	0.977	
LTE Band 66	20M	QPSK	1	0	-	Back	11mm	Ant 2	DSI 4	132072	1720	22.67	24.00	1.358	0.01	0.579	0.786	
LTE Band 66	20M	QPSK	1	0	-	Top Side	9mm	Ant 2	DSI 4	132322	1745	22.85	24.00	1.303	0.08	1.240	1.616	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	20.17	21.00	1.211	-0.11	0.896	1.085	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	20.03	21.00	1.250	0.08	0.767	0.959	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	20.17	21.00	1.211	0.08	1.110	1.344	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	20.03	21.00	1.250	0.02	0.998	1.248	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6	349000	1745	20.17	21.00	1.211	0.04	2.080	2.518	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6	346000	1730	20.04	21.00	1.247	-0.09	2.410	3.006	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6	352000	1760	20.08	21.00	1.236	0.07	1.890	2.336	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6	349000	1745	20.03	21.00	1.250	0.06	1.990	2.488	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6	346000	1730	20.01	21.00	1.256	0.06	1.870	2.349	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6	352000	1760	19.99	21.00	1.262	0.06	1.790	2.259	
FR1 n66	40M	QPSK	216	0	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6	349000	1745	20.05	21.00	1.245	-0.14	1.910	2.377	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Bottom Side	0mm	Ant 1	DSI 6 Simultaneous	346000	1730	18.57	19.50	1.239	-0.04	1.590	1.970	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Front	6mm	Ant 1	DSI 4	349000	1745	23.30	24.00	1.175	0.07	0.890	1.046	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	8mm	Ant 1	DSI 4	349000	1745	23.30	24.00	1.175	0.09	0.712	0.837	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Bottom Side	10mm	Ant 1	DSI 4	346000	1730	23.08	24.00	1.236	0.01	0.974	1.204	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	21.47	22.40	1.239	0.03	1.350	1.672	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	21.25	22.40	1.303	0.08	1.220	1.590	
76	FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6	349000	1745	21.47	22.40	1.239	-0.08	2.560	3.171
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6	346000	1730	21.44	22.40	1.247	0.03	1.830	2.283	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6	352000	1760	21.42	22.40	1.253	0.06	2.180	2.732	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6	349000	1745	21.25	22.40	1.303	0.18	2.000	2.606	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6	346000	1730	21.11	22.40	1.346	0.01	1.820	2.449	
FR1 n66	40M	QPSK	108	54	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6	352000	1760	21.06	22.40	1.361	-0.02	1.690	2.301	
FR1 n66	40M	QPSK	216	0	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6	349000	1745	21.11	22.40	1.346	-0.01	1.620	2.180	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Top Side	0mm	Ant 2	DSI 6 Simultaneous	349000	1745	19.91	20.90	1.256	-0.08	1.730	2.173	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Back	11mm	Ant 2	DSI 4	349000	1745	22.28	23.00	1.180	0.03	0.385	0.454	
FR1 n66	40M	QPSK	1	1	DFT_SCS 15KHz	Top Side	9mm	Ant 2	DSI 4	349000	1745	22.28	23.00	1.180	0.01	0.866	1.022	



**FCC SAR Test Report**

**Report No. : FA172703**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
<b>1900MHz</b>																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	DSI 6	661	1880	23.67	24.00	1.079	0.07	1.390	1.500	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	661	1880	23.67	24.00	1.079	-0.01	1.990	2.147	
77	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	512	1850.2	23.55	24.00	1.109	0.08	2.420	<b>2.684</b>	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	810	1909.8	23.63	24.00	1.089	-0.05	1.680	1.829	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	DSI 6	661	1880	23.67	24.00	1.079	-0.06	1.930	2.082	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	DSI 6	512	1850.2	23.55	24.00	1.109	0.05	2.150	2.385	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	DSI 6	810	1909.8	23.63	24.00	1.089	0.04	1.840	2.004	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6 Simultaneous	512	1850.2	22.21	22.50	1.069	-0.08	1.710	1.828	
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	6mm	Ant 1	DSI 4	661	1880	27.79	28.00	1.050	0.02	0.273	0.287	
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	8mm	Ant 1	DSI 4	512	1850.2	27.71	28.00	1.069	0.07	0.299	0.320	
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	10mm	Ant 1	DSI 4	512	1850.2	27.71	28.00	1.069	-0.11	0.568	0.607	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9400	1880	19.79	21.00	1.321	-0.07	1.790	2.365	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9262	1852.4	19.71	21.00	1.346	0.02	1.850	2.490	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9538	1907.6	19.67	21.00	1.358	0.09	1.670	2.268	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9400	1880	19.79	21.00	1.321	0.16	2.050	2.709	
78	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9262	1852.4	19.71	21.00	1.346	-0.07	2.300	<b>3.095</b>	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9538	1907.6	19.67	21.00	1.358	-0.08	2.020	2.744	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9400	1880	19.79	21.00	1.321	-0.12	1.630	2.154	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9262	1852.4	19.71	21.00	1.346	0.13	1.850	2.490	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9538	1907.6	19.67	21.00	1.358	0.03	1.650	2.241	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6 Simultaneous	9262	1852.4	18.24	19.50	1.337	-0.09	1.740	2.326	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	6mm	Ant 1	DSI 4	9262	1852.4	22.91	24.00	1.285	0.06	1.790	2.301	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	6mm	Ant 1	DSI 4	9400	1880	22.93	24.00	1.279	0.12	1.650	2.111	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	6mm	Ant 1	DSI 4	9538	1907.6	22.84	24.00	1.306	0.08	1.680	2.194	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	8mm	Ant 1	DSI 4	9262	1852.4	22.91	24.00	1.285	0.18	1.930	2.481	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	8mm	Ant 1	DSI 4	9400	1880	22.93	24.00	1.279	-0.09	1.870	2.392	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	8mm	Ant 1	DSI 4	9538	1907.6	22.84	24.00	1.306	0.06	1.910	2.495	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 4	9262	1852.4	22.91	24.00	1.285	0.01	2.050	2.635	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 4	9400	1880	22.93	24.00	1.279	0.06	1.910	2.444	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 4	9538	1907.6	22.84	24.00	1.306	0.04	1.950	2.547	
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	19.59	20.50	1.233	0.08	1.840	2.269	
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	18700	1860	19.51	20.50	1.256	0.09	2.030	2.550	
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	19100	1900	19.49	20.50	1.262	0.05	1.730	2.183	
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	19.56	20.50	1.242	0.03	1.770	2.198	
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	18700	1860	19.48	20.50	1.265	0.05	1.740	2.201	
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	19100	1900	19.44	20.50	1.276	-0.07	1.760	2.247	
	LTE Band 2	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	19.51	20.50	1.256	-0.1	1.750	2.198	
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	18900	1880	19.59	20.50	1.233	-0.16	2.070	2.553	
79	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	18700	1860	19.51	20.50	1.256	-0.18	2.370	<b>2.977</b>	
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	19100	1900	19.49	20.50	1.262	0.17	1.980	2.498	
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	18900	1880	19.56	20.50	1.242	0.05	1.880	2.334	
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	18700	1860	19.48	20.50	1.265	0.03	1.790	2.264	
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	19100	1900	19.44	20.50	1.276	0.09	1.840	2.349	
	LTE Band 2	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	18900	1880	19.51	20.50	1.256	0.08	1.910	2.399	
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	18900	1880	19.59	20.50	1.233	0.11	1.640	2.022	
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	18700	1860	19.51	20.50	1.256	0.02	1.670	2.098	
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	19100	1900	19.49	20.50	1.262	-0.09	1.510	1.905	
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	18900	1880	19.56	20.50	1.242	0.18	1.590	1.974	
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	DSI 6	18900	1880	19.51	20.50	1.256	0.08	1.910	2.399	
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6 Simultaneous	18700	1860	18.33	20.00	1.469	0.08	1.680	2.468	
	LTE Band 2	20M	QPSK	1	0	-	Front	6mm	Ant 1	DSI 4	18700	1860	23.17	24.00	1.211	-0.08	1.880	2.276	
	LTE Band 2	20M	QPSK	1	0	-	Front	6mm	Ant 1	DSI 4	18900	1880	23.19	24.00	1.205	0.03	1.770	2.133	
	LTE Band 2	20M	QPSK	1	0	-	Front	6mm	Ant 1	DSI 4	19100	1900	22.95	24.00	1.274	0.08	1.710	2.178	

**Sporton International (Kunshan) Inc.**

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FCC ID : IHDT56AC1

Issued Date : Nov. 03, 2021

Form version. : 200414



**FCC SAR Test Report**

**Report No. : FA172703**

LTE Band 2	20M	QPSK	100	0	-	Front	6mm	Ant 1	DSI 4	18900	1880	22.18	23.00	1.208	-0.02	1.630	1.969
LTE Band 2	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	18700	1860	23.17	24.00	1.211	-0.12	2.010	2.433
LTE Band 2	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	18900	1880	23.19	24.00	1.205	0.02	1.980	2.386
LTE Band 2	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	19100	1900	22.95	24.00	1.274	-0.05	1.920	2.445
LTE Band 2	20M	QPSK	100	0	-	Back	8mm	Ant 1	DSI 4	18900	1880	22.18	23.00	1.208	0.03	1.850	2.234
LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 4	18700	1860	23.17	24.00	1.211	0.13	2.030	2.458
LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 4	18900	1880	23.19	24.00	1.205	0.07	1.960	2.362
LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 4	19100	1900	22.95	24.00	1.274	-0.09	1.930	2.458
LTE Band 2	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 1	DSI 4	18900	1880	22.18	23.00	1.208	0.07	1.790	2.162



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
<b>2600MHz</b>																				
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	22.39	23.30	1.233	-	-	-0.06	1.890	2.331
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	20850	2510	22.29	23.30	1.262	-	-	0.18	1.780	2.246
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21350	2560	22.31	23.30	1.256	-	-	0.05	1.920	2.412
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	22.08	23.00	1.236	-	-	-0.07	1.910	2.361
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	20850	2510	21.98	23.00	1.265	-	-	-0.03	1.820	2.302
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	21350	2560	22.01	23.00	1.256	-	-	-0.11	1.890	2.374
	LTE Band 7	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	22.08	23.00	1.236	-	-	0.06	1.920	2.373
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	22.39	23.30	1.233	-	-	-0.09	2.060	2.540
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	22.29	23.30	1.262	-	-	-0.08	1.950	2.461
80	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	22.31	23.30	1.256	-	-	-0.08	2.320	<b>2.914</b>
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	22.08	23.00	1.236	-	-	0.03	2.080	2.571
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	21.98	23.00	1.265	-	-	0.02	2.030	2.567
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	22.01	23.00	1.256	-	-	0.02	2.200	2.763
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	22.08	23.00	1.236	-	-	0.14	2.080	2.571
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	21100	2535	22.39	23.30	1.233	-	-	0.02	1.610	1.985
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	21100	2535	22.08	23.00	1.236	-	-	-0.02	1.690	2.089
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	20850	2510	21.98	23.00	1.265	-	-	0.1	1.740	2.201
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	21350	2560	22.01	23.00	1.256	-	-	0.05	1.790	2.248
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	DSI 6	21100	2535	22.08	23.00	1.236	-	-	0.07	1.720	2.126
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6 Simultaneous	21350	2560	20.71	21.80	1.285	-	-	0.01	1.650	2.121
	LTE Band 7	20M	QPSK	1	0	-	Front	6mm	Ant 1	DSI 4	21350	2560	23.19	24.00	1.205	-	-	0.06	0.984	1.186
	LTE Band 7	20M	QPSK	1	0	-	Back	8mm	Ant 1	DSI 4	21350	2560	23.19	24.00	1.205	-	-	0.01	0.957	1.153
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 4	21350	2560	23.19	24.00	1.205	-	-	0.08	1.370	1.651
	LTE Band 7C	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21350+21152	2560+2540.2	22.14	23.30	1.306	-	-	0.01	2.020	2.638
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 4	21100	2535	22.44	24.00	1.432	-	-	0.030	1.210	1.733
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 4	21100	2535	21.43	23.00	1.435	-	-	0.020	1.160	1.665
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 4	21100+20902	2535+2515.2	22.29	24.00	1.483	-	-	0.01	1.050	1.557
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	23.39	24.00	1.151	62.9	1.006	-0.14	1.490	1.725
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	23.33	24.00	1.167	62.9	1.006	-0.09	1.790	2.101
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40185	2549.5	23.30	24.00	1.175	62.9	1.006	-0.1	1.690	1.997
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	41055	2636.5	23.28	24.00	1.180	62.9	1.006	0.07	1.760	2.090
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	41490	2680	23.27	24.00	1.183	62.9	1.006	0.17	1.070	1.273
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	22.34	23.00	1.164	62.9	1.006	0.07	1.070	1.253
	LTE Band 41	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	22.28	23.00	1.180	62.9	1.006	0.12	1.560	1.852
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	23.39	24.00	1.151	62.9	1.006	-0.09	1.940	2.246
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	39750	2506	23.33	24.00	1.167	62.9	1.006	0.07	1.850	2.172
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40185	2549.5	23.30	24.00	1.175	62.9	1.006	0.06	1.750	2.068
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41055	2636.5	23.28	24.00	1.180	62.9	1.006	0.08	1.820	2.161
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41490	2680	23.27	24.00	1.183	62.9	1.006	0.02	1.160	1.381
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	22.34	23.00	1.164	62.9	1.006	0.05	1.070	1.253
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	22.28	23.00	1.180	62.9	1.006	0.05	1.510	1.793
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	40620	2593	23.39	24.00	1.151	62.9	1.006	-0.09	1.710	1.980
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	39750	2506	23.33	24.00	1.167	62.9	1.006	0.17	1.680	1.972
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	40185	2549.5	23.30	24.00	1.175	62.9	1.006	0.12	1.270	1.501
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	41055	2636.5	23.28	24.00	1.180	62.9	1.006	0.05	0.824	0.978
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 6	41490	2680	23.27	24.00	1.183	62.9	1.006	-0.13	0.821	0.977
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 6	40620	2593	22.34	23.00	1.164	62.9	1.006	0.03	0.938	1.099
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	DSI 6	40620	2593	22.28	23.00	1.180	62.9	1.006	0.06	0.751	0.892
81	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	26.43	27.00	1.140	42.9	1.009	-0.03	2.600	<b>2.991</b>
	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	39750	2506	26.38	27.00	1.153	42.9	1.009	0.01	2.430	2.828
	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40185	2549.5	26.34	27.00	1.164	42.9	1.009	0.09	2.410	2.831



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	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41055	2636.5	26.34	27.00	1.164	42.9	1.009	-0.08	2.450	2.878
	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41490	2680	26.34	27.00	1.164	42.9	1.009	0.04	2.490	2.925
	LTE Band 41-HPUE	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	25.49	26.00	1.125	42.9	1.009	0.06	2.310	2.621
	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6 Simultaneous	40620	2593	24.83	25.70	1.222	42.9	1.009	0.01	1.630	2.009
	LTE Band 41C	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620+40422	2595+2575.2	23.37	24.00	1.156	62.9	1.006	0.07	2.030	2.361
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	23.72	24.00	1.067	-	-	-0.18	1.730	1.845
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	23.41	24.00	1.146	-	-	0.12	1.670	1.913
82	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	23.72	24.00	1.067	-	-	0.04	2.100	<b>2.240</b>
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	23.41	24.00	1.146	-	-	-0.09	1.680	1.924
	FR1 n7	50M	QPSK	270	0	DFT_SCS_15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	22.43	23.00	1.140	-	-	0.06	1.360	1.551
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Bottom Side	0mm	Ant 1	DSI 6	507000	2535	23.72	24.00	1.067	-	-	0.09	2.000	2.133
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Bottom Side	0mm	Ant 1	DSI 6	507000	2535	23.41	24.00	1.146	-	-	0.11	1.800	2.062
	FR1 n7	50M	QPSK	270	0	DFT_SCS_15KHz	Bottom Side	0mm	Ant 1	DSI 6	507000	2535	22.43	23.00	1.140	-	-	-0.03	1.590	1.813
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Back	0mm	Ant 1	DSI 6 Simultaneous	507000	2535	21.84	23.30	1.400	-	-	-0.09	1.540	2.155
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Back	0mm	Ant 2	DSI 4	507000	2535	22.98	24.00	1.265	-	-	0.05	0.823	1.041
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Back	0mm	Ant 2	DSI 4	507000	2535	22.95	24.00	1.274	-	-	0.03	0.698	0.889
	FR1 n7	50M	QPSK	1	1	DFT_SCS_15KHz	Top Side	0mm	Ant 2	DSI 4	507000	2535	22.98	24.00	1.265	-	-	0.03	0.927	1.172
	FR1 n7	50M	QPSK	135	68	DFT_SCS_15KHz	Top Side	0mm	Ant 2	DSI 4	507000	2535	22.95	24.00	1.274	-	-	-0.02	0.871	1.109
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	0mm	Ant 1	DSI 6	519000	2595	22.66	23.50	1.213	-	-	-0.16	1.990	2.415
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Front	0mm	Ant 1	DSI 6	519000	2595	22.54	23.50	1.247	-	-	0.08	1.710	2.133
	FR1 n38	40M	QPSK	100	0	DFT-SCS_30KHz	Front	0mm	Ant 1	DSI 6	519000	2595	21.91	23.00	1.285	-	-	0.04	1.800	2.314
83	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	0mm	Ant 1	DSI 6	519000	2595	22.66	23.50	1.213	-	-	0.03	2.140	<b>2.597</b>
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Back	0mm	Ant 1	DSI 6	519000	2595	22.54	23.50	1.247	-	-	-0.1	1.800	2.245
	FR1 n38	40M	QPSK	100	0	DFT-SCS_30KHz	Back	0mm	Ant 1	DSI 6	519000	2595	21.91	23.00	1.285	-	-	0.02	1.680	2.159
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Bottom Side	0mm	Ant 1	DSI 6	519000	2595	22.66	23.50	1.213	-	-	0.03	1.120	1.359
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Bottom Side	0mm	Ant 1	DSI 6	519000	2595	22.54	23.50	1.247	-	-	0.07	0.917	1.144
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	0mm	Ant 1	DSI 6 Simultaneous	519000	2595	21.35	22.00	1.161	-	-	0.01	1.600	1.858
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Front	6mm	Ant 1	DSI 4	519000	2595	23.75	24.00	1.059	-	-	0.04	0.531	0.562
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Back	8mm	Ant 1	DSI 4	519000	2595	23.75	24.00	1.059	-	-	0.07	0.467	0.495
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Bottom Side	10mm	Ant 1	DSI 4	519000	2595	23.75	24.00	1.059	-	-	0.08	0.704	0.746
	FR1 n38	40M	QPSK	1	1	DFT-SCS_30KHz	Top Side	0mm	Ant 2	DSI 4	519000	2595	22.69	24.00	1.352	-	-	0.01	1.050	1.420
	FR1 n38	40M	QPSK	50	28	DFT-SCS_30KHz	Top Side	0mm	Ant 2	DSI 4	519000	2595	22.50	24.00	1.413	-	-	0.07	0.930	1.314



**FCC SAR Test Report**

**Report No. : FA172703**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
<b>3500MHz~3900MHz</b>																				
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	0mm	Ant 4	DSI 6	42590	3500	21.10	22.70	1.445	62.9	1.006	-0.19	1.310	1.905
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Front	0mm	Ant 4	DSI 6	42590	3500	21.02	22.70	1.472	62.9	1.006	0.09	1.280	1.896
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 6	42590	3500	21.10	22.70	1.445	62.9	1.006	0.17	1.060	1.541
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 6	42590	3500	21.02	22.70	1.472	62.9	1.006	0.02	0.927	1.373
84	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 4	DSI 6	42590	3500	21.10	22.70	1.445	62.9	1.006	-0.09	2.140	<b>3.112</b>
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 4	DSI 6	42190	3460	20.93	22.70	1.503	62.9	1.006	0.01	2.010	3.039
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 4	DSI 6	42990	3540	21.06	22.70	1.459	62.9	1.006	-0.03	1.990	2.920
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 4	DSI 6	42590	3500	21.02	22.70	1.472	62.9	1.006	0.04	1.970	2.918
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 4	DSI 6	42190	3460	20.95	22.70	1.496	62.9	1.006	-0.11	1.830	2.755
	LTE Band 42 part 27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 4	DSI 6	42990	3540	20.99	22.70	1.483	62.9	1.006	0.07	1.950	2.908
	LTE Band 42 part 27Q	20M	QPSK	100	0	-	Left Side	0mm	Ant 4	DSI 6	42590	3500	21.16	22.70	1.426	62.9	1.006	-0.12	1.850	2.653
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 4	DSI 6 Simultaneous	42590	3500	19.72	21.20	1.406	62.9	1.006	-0.01	1.540	2.178
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	2mm	Ant 4	DSI 4	42590	3500	23.82	25.00	1.312	62.9	1.006	-0.06	0.377	0.498
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Back	6mm	Ant 4	DSI 4	42590	3500	23.82	25.00	1.312	62.9	1.006	-0.11	0.599	0.791
	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Left Side	9mm	Ant 4	DSI 4	42590	3500	23.82	25.00	1.312	62.9	1.006	-0.05	0.779	1.028
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	0mm	Ant 4	DSI 6	656000	3840	18.70	19.50	1.202	-	-	0.14	0.897	1.078
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Front	0mm	Ant 4	DSI 6	656000	3840	18.65	19.50	1.216	-	-	0.09	0.795	0.967
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Back	0mm	Ant 4	DSI 6	656000	3840	18.70	19.50	1.202	-	-	0.04	0.668	0.803
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Back	0mm	Ant 4	DSI 6	656000	3840	18.65	19.50	1.216	-	-	-0.15	0.609	0.741
85	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6	656000	3840	18.70	19.50	1.202	-	-	0.03	2.410	<b>2.897</b>
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6	656000	3840	18.65	19.50	1.216	-	-	0.06	2.110	2.566
	FR1 n77 part 27Q	100M	QPSK	270	0	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6	656000	3840	18.45	19.50	1.274	-	-	0.05	1.930	2.458
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6 Simultaneous	656000	3840	17.22	18.00	1.197	-	-	0.07	1.590	1.903
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	2mm	Ant 4	DSI 4	656000	3840	22.69	24.00	1.352	-	-	0.12	0.374	0.506
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Back	6mm	Ant 4	DSI 4	656000	3840	22.69	24.00	1.352	-	-	0.07	0.122	0.165
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Left Side	9mm	Ant 4	DSI 4	656000	3840	22.69	24.00	1.352	-	-	0.06	0.205	0.277
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	0mm	Ant 4	DSI 6	633334	3500.01	18.55	19.50	1.245	-	-	0.05	1.140	1.419
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Front	0mm	Ant 4	DSI 6	633334	3500.01	18.47	19.50	1.268	-	-	-0.04	1.020	1.293
	FR1 n77 part 27Q	100M	QPSK	270	0	DFT-SCS_30KHz	Front	0mm	Ant 4	DSI 6	633334	3500.01	18.34	19.50	1.306	-	-	0.09	0.820	1.071
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6	633334	3500.01	18.55	19.50	1.245	-	-	-0.02	2.220	2.763
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6	633334	3500.01	18.47	19.50	1.268	-	-	0.08	2.260	2.865
	FR1 n77 part 27Q	100M	QPSK	270	0	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6	633334	3500.01	18.34	19.50	1.306	-	-	-0.02	2.000	2.612
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Left Side	0mm	Ant 4	DSI 6 Simultaneous	633334	3500.01	17.16	18.00	1.213	-	-	0.08	1.560	1.893
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Front	2mm	Ant 4	DSI 4	633334	3500.01	22.79	24.00	1.321	-	-	0.12	0.412	0.544
	FR1 n77 part 27Q	100M	QPSK	1	1	DFT-SCS_30KHz	Left Side	9mm	Ant 4	DSI 4	633334	3500.01	22.79	24.00	1.321	-	-	0.01	0.605	0.799
	FR1 n77 part 27Q	100M	QPSK	135	69	DFT-SCS_30KHz	Left Side	9mm	Ant 4	DSI 4	633334	3500.01	22.75	24.00	1.334	-	-	0.06	0.612	0.816





Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
<b>WLAN/Bluetooth</b>																
86	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 6+7	Full Power	44	5220	20.31	22.00	1.47	99.27	1.007	0.09	1.520	<b>2.258</b>
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 6+7	Full Power	48	5240	20.29	22.00	1.48	99.27	1.007	0.03	1.320	1.971
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+7	Standalone DBS WLAN	46	5230	18.96	20.50	1.42	100	1.000	0.01	1.140	1.624
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7	Simultaneous WLAN+WWAN	42	5210	17.80	19.50	1.48	100	1.000	0.03	0.812	1.201
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	42	5210	16.00	17.50	1.41	100	1.000	0.06	0.479	0.677
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 6+7	Full Power	56	5280	20.08	22.00	1.56	99.27	1.007	0.01	0.092	0.144
87	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6+7	Full Power	56	5280	20.08	22.00	1.56	99.27	1.007	0.01	1.170	<b>1.834</b>
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 6+7	Full Power	56	5280	20.08	22.00	1.56	99.27	1.007	0.01	0.170	0.267
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6+7	Full Power	56	5280	20.08	22.00	1.56	99.27	1.007	0.02	0.299	0.469
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6+7	Standalone DBS WLAN	56	5280	19.44	21.00	1.43	99.27	1.007	0.02	1.050	1.514
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+7	Simultaneous WLAN+WWAN	54	5270	18.87	20.50	1.46	100	1.000	0.05	0.828	1.206
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	58	5290	16.40	17.50	1.29	100	1.000	0.05	0.469	0.604
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 6+7	Full Power	140	5700	20.33	22.00	1.47	99.27	1.007	0.16	0.098	0.145
88	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6+7	Full Power	140	5700	20.33	22.00	1.47	99.27	1.007	0.07	1.190	<b>1.759</b>
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6+7	Full Power	140	5700	20.33	22.00	1.47	99.27	1.007	0.07	0.340	0.503
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6+7	Full Power	140	5700	20.33	22.00	1.47	99.27	1.007	-0.18	0.466	0.689
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+7	Simultaneous WLAN+WWAN	134	5670	18.92	20.50	1.44	100	1.000	-0.19	0.887	1.276
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	106	5530	15.16	17.00	1.53	100	1.000	0.03	0.458	0.700
89	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 6+7	Full Power	157	5785	20.37	22.00	1.45	99.27	1.007	0.06	0.890	<b>1.303</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7	Simultaneous WLAN DBS+WWAN	155	5775	17.20	19.00	1.51	100	1.000	0.01	0.493	0.746

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m <sup>2</sup> )
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	-0.02	0.019	0.028	0.48
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	-0.02	0.074	0.108	1.85
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	0.07	0.007	0.010	0.173
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	0.03	0.014	0.020	0.344
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	0.08	0.032	0.047	0.805
	WLAN6GHz	802.11ac-VHT160 MCS0	Bottom Side	0mm	Ant 6+7	Full Power	111	6505	16.86	18.50	1.46	100	1.00	0.02	0.004	0.006	0.102
90	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7	Full Power	15	6025	16.75	18.50	1.50	100	1.00	-0.08	0.130	<b>0.195</b>	3.25
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7	Full Power	47	6185	16.09	18.50	1.74	100	1.00	0.09	0.060	0.105	1.49
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7	Full Power	175	6825	15.61	18.50	1.95	100	1.00	0.01	0.042	0.082	1.05
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7	Full Power	207	6985	15.40	18.50	2.04	100	1.00	-0.03	0.095	0.194	2.56



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1513	1752.6	17.75	18.10	1.084	-	-	0.01	1.140	1	1.236
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1513	1752.6	17.75	18.10	1.084	-	-	0.01	1.073	1.062	1.163
1st	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	16.01	16.70	1.172	-	-	0.03	1.050	1	1.231
2nd	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	16.01	16.70	1.172	-	-	0.01	0.891	1.178	1.044
1st	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	22.85	23.40	1.135	62.9	1.006	0.07	1.080	1	1.233
2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	22.85	23.40	1.135	62.9	1.006	-0.05	1.010	1.069	1.153
1st	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	42590	3500	22.98	23.60	1.153	62.9	1.006	-0.02	1.090	1	1.265
2nd	LTE Band 42 part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	42590	3500	22.98	23.60	1.153	62.9	1.006	0.01	0.845	1.290	0.981
1st	WLAN5.3GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	-	Standalone	58	5290	16.40	17.50	1.29	100	1.000	0.01	0.860	1	1.108
2nd	WLAN5.3GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	-	Standalone	58	5290	16.40	17.50	1.29	100	1.000	0.05	0.833	1.032	1.073
1st	WLAN5.5GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	-	Standalone	106	5530	13.38	15.00	1.45	100	1.000	0.01	0.809	1	1.175
2nd	WLAN5.5GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7	-	Standalone	106	5530	13.38	15.00	1.45	100	1.000	0.07	0.801	1.010	1.163

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 4	4182	836.4	22.72	24.00	1.343	-	-	-0.04	2.230	1	2.994
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 4	4182	836.4	22.72	24.00	1.343	-	-	-0.14	2.090	1.067	2.806
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1513	1752.6	19.94	20.70	1.191	-	-	0.09	2.630	1	3.133
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1513	1752.6	19.94	20.70	1.191	-	-	0.01	2.410	1.091	2.871
1st	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	512	1850.2	23.55	24.00	1.109	-	-	0.08	2.420	1	2.684
2nd	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	512	1850.2	23.55	24.00	1.109	-	-	0.01	2.210	1.095	2.451
1st	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	26.43	27.00	1.140	42.9	1.009	-0.03	2.600	1	2.991
2nd	LTE Band 41-HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	26.43	27.00	1.140	42.9	1.009	0.01	2.510	1.036	2.888
1st	FR1 n77 part 27O	100M	QPSK	1	1	DFT_SCS 30KHz	Left Side	0mm	Ant 4	DSI 6	656000	3840	18.70	19.50	1.202	-	-	0.03	2.410	1	2.897
2nd	FR1 n77 part 27O	100M	QPSK	1	1	DFT_SCS 30KHz	Left Side	0mm	Ant 4	DSI 6	656000	3840	18.70	19.50	1.202	-	-	0.05	2.130	1.131	2.561

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8W/kg$ .
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45W/kg$ , only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



**16.6 TDD B41 Linearity Data Analysis**

**General Note:**

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

LTE Band 41(HPUE)-Linearity Data for Head		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.112	0.158
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.153	
% deviation from expected linearity		3.36%
LTE Band 41(HPUE)-Linearity Data for Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	19.60	21.20
Reported 1g SAR (W/kg)	0.945	0.866
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	57.73	57.08
Linearity SAR (W/kg)	0.934	
% deviation from expected linearity		-7.32%
LTE Band 41(HPUE)-Linearity Data for Body-worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.40	25.00
Reported 1g SAR (W/kg)	1.233	1.263
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	138.49	136.93
Linearity SAR (W/kg)	1.219	
% deviation from expected linearity		3.60%
LTE Band 41(HPUE)-Linearity Data for Extremity SAR		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	2.246	2.991
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	3.065	
% deviation from expected linearity		-2.43%

### 17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN6E	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	Bluetooth + WLAN5GHz	Yes	Yes	Yes	Yes
6.	Bluetooth + WLAN6E	Yes	Yes		Yes
7.	WWAN + Bluetooth + WLAN5GHz	Yes	Yes	Yes	Yes
8.	WWAN + Bluetooth + WLAN6E	Yes	Yes		Yes
9.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
10.	WWAN + WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
11.	WLAN2.4GHz + WLAN6E	Yes	Yes		Yes
12.	WWAN + WLAN 2.4GHz + WLAN6E	Yes	Yes	Yes	Yes

**General Note:**

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- WIFI 6E has no hotspot function.
- The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
- The maximum SAR summation is calculated based on the same configuration and test position.
- SAR Power density test report for WLAN6E U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth, always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and U-NII-5/6/7/8.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

### 17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values. Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and  $A \leq 1.0$ ; B is normalized reported time-averaged exposure ratio from 5G NR (i.e. SAR exposure for 5G FR1), and  $B \leq 1.0$ .

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if  $A + C \leq 1.0$  and  $B + C \leq 1.0$  can be proven, then “ $x\% * A + (100-x)\% * B + C \leq 1.0$ ”. Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Above analysis is also apply to LTE inter band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, So inter band CA uplink no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.



17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	7	8	9	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+8+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN DBS	2.4GHz WLAN WWAN + WLAN	2.4GHz WLAN WWAN + DBS	5GHz WLAN	Bluetooth Ant 3	Bluetooth Ant 6	WIFI 6E							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM850Ant 1	Right Cheek	0.319	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.76	0.67	0.54	0.77	0.51	0.37
	Right Tilted	0.149	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.59	0.50	0.36	0.58	0.36	0.22
	Left Cheek	0.306	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.74	0.87	0.64	0.83	0.62	0.39
	Left Tilted	0.185	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.62	0.67	0.41	0.63	0.48	0.22
GSM1900Ant 1	Right Cheek	0.043	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.48	0.40	0.27	0.49	0.23	0.10
	Right Tilted	0.034	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.47	0.39	0.25	0.47	0.25	0.11
	Left Cheek	0.058	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.50	0.63	0.39	0.58	0.37	0.14
	Left Tilted	0.047	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.48	0.53	0.27	0.49	0.34	0.08
WCDMA IIAnt 1	Right Cheek	0.119	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.56	0.47	0.34	0.57	0.31	0.17
	Right Tilted	0.100	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.54	0.45	0.31	0.53	0.31	0.17
	Left Cheek	0.192	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.63	0.76	0.53	0.71	0.51	0.27
	Left Tilted	0.102	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.54	0.59	0.32	0.55	0.40	0.13
WCDMA IVAnt 1	Right Cheek	0.118	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.56	0.47	0.34	0.57	0.30	0.17
	Right Tilted	0.110	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.55	0.46	0.32	0.54	0.32	0.18
	Left Cheek	0.179	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.62	0.75	0.51	0.70	0.49	0.26
	Left Tilted	0.119	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.56	0.60	0.34	0.57	0.41	0.15
WCDMA VAnt 1	Right Cheek	0.412	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.85	0.77	0.64	0.86	0.60	0.47
	Right Tilted	0.184	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.62	0.54	0.40	0.62	0.40	0.26
	Left Cheek	0.371	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.81	0.94	0.71	0.89	0.68	0.45
	Left Tilted	0.222	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.66	0.71	0.44	0.67	0.52	0.25
LTE Band 2Ant 1	Right Cheek	0.111	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.55	0.47	0.33	0.56	0.30	0.17
	Right Tilted	0.086	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.52	0.44	0.30	0.52	0.30	0.16
	Left Cheek	0.167	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.60	0.73	0.50	0.69	0.48	0.25
	Left Tilted	0.089	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.53	0.57	0.31	0.54	0.38	0.12
LTE Band 7Ant 1	Right Cheek	0.163	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.60	0.52	0.39	0.61	0.35	0.22
	Right Tilted	0.079	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.52	0.43	0.29	0.51	0.29	0.15
	Left Cheek	0.118	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.56	0.69	0.45	0.64	0.43	0.20
	Left Tilted	0.085	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.52	0.57	0.31	0.53	0.38	0.12
LTE Band 12Ant 1	Right Cheek	0.103	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.54	0.46	0.33	0.55	0.29	0.16
	Right Tilted	0.037	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.47	0.39	0.25	0.47	0.25	0.11
	Left Cheek	0.091	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.53	0.66	0.43	0.61	0.40	0.17
	Left Tilted	0.044	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.48	0.53	0.27	0.49	0.34	0.07
LTE Band 13Ant 1	Right Cheek	0.185	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.62	0.54	0.41	0.63	0.37	0.24
	Right Tilted	0.107	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.54	0.46	0.32	0.54	0.32	0.18
	Left Cheek	0.168	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.61	0.74	0.50	0.69	0.48	0.25
	Left Tilted	0.114	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.55	0.60	0.34	0.56	0.41	0.14
LTE Band 26Ant 1	Right Cheek	0.278	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.72	0.63	0.50	0.73	0.46	0.33
	Right Tilted	0.151	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.59	0.51	0.36	0.58	0.37	0.22
	Left Cheek	0.269	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.71	0.84	0.60	0.79	0.58	0.35
	Left Tilted	0.157	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.59	0.64	0.38	0.60	0.45	0.19
LTE Band 66Ant 1	Right Cheek	0.120	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.56	0.47	0.34	0.57	0.31	0.18
	Right Tilted	0.105	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.54	0.46	0.32	0.54	0.32	0.18
	Left Cheek	0.190	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.63	0.76	0.53	0.71	0.50	0.27
	Left Tilted	0.114	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.55	0.60	0.34	0.56	0.41	0.14
LTE Band 41Ant 1	Right Cheek	0.112	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.55	0.47	0.34	0.56	0.30	0.17
	Right Tilted	0.042	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.48	0.40	0.25	0.48	0.26	0.11





	Left Cheek	0.071	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.51	0.64	0.41	0.59	0.38	0.15
	Left Tilted	0.058	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.50	0.54	0.28	0.50	0.35	0.09
LTE Band 12Ant 2	Right Cheek	0.757	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.19	1.11	0.98	1.20	0.94	0.81
	Right Tilted	0.757	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.19	1.11	0.97	1.19	0.97	0.83
	Left Cheek	0.757	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.19	1.32	1.09	1.28	1.07	0.84
	Left Tilted	0.757	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.19	1.24	0.98	1.20	1.05	0.79
WCDMA VAnt 2	Right Cheek	0.942	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.38	1.30	1.17	1.39	1.13	1.00
	Right Tilted	0.942	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.38	1.30	1.15	1.38	1.16	1.01
	Left Cheek	0.942	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.38	1.51	1.28	1.46	1.26	1.02
	Left Tilted	0.942	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.38	1.43	1.16	1.39	1.24	0.97
LTE Band 26Ant 2	Right Cheek	0.953	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.39	1.31	1.18	1.40	1.14	1.01
	Right Tilted	0.953	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.39	1.31	1.16	1.39	1.17	1.02
	Left Cheek	0.953	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.39	1.52	1.29	1.47	1.27	1.03
	Left Tilted	0.953	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.39	1.44	1.18	1.40	1.25	0.98
LTE Band 66Ant 2	Right Cheek	0.866	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.30	1.22	1.09	1.31	1.05	0.92
	Right Tilted	0.866	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.30	1.22	1.08	1.30	1.08	0.94
	Left Cheek	0.866	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.30	1.43	1.20	1.39	1.18	0.95
	Left Tilted	0.866	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.30	1.35	1.09	1.31	1.16	0.90
LTE Band 7Ant 2	Right Cheek	0.975	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.41	1.33	1.20	1.42	1.16	1.03
	Right Tilted	0.975	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.41	1.33	1.19	1.41	1.19	1.05
	Left Cheek	0.975	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.41	1.54	1.31	1.50	1.29	1.06
	Left Tilted	0.975	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.41	1.46	1.20	1.42	1.27	1.01
LTE Band 42	Right Cheek	0.942	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.38	1.30	1.17	1.39	1.13	1.00
	Right Tilted	0.942	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.38	1.30	1.15	1.38	1.16	1.01
	Left Cheek	0.942	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.38	1.51	1.28	1.46	1.26	1.02
	Left Tilted	0.942	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.38	1.43	1.16	1.39	1.24	0.97
FR1 n5Ant 1	Right Cheek	0.249	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.69	0.60	0.47	0.70	0.44	0.30
	Right Tilted	0.200	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.64	0.55	0.41	0.63	0.41	0.27
	Left Cheek	0.229	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.67	0.80	0.56	0.75	0.54	0.31
	Left Tilted	0.190	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.63	0.68	0.41	0.64	0.48	0.22
FR1 n5Ant 2	Right Cheek	0.962	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.40	1.32	1.19	1.41	1.15	1.02
	Right Tilted	0.962	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.40	1.32	1.17	1.40	1.18	1.03
	Left Cheek	0.962	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.40	1.53	1.30	1.48	1.28	1.04
	Left Tilted	0.962	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.40	1.45	1.18	1.41	1.26	0.99
FR1 n66Ant 1	Right Cheek	0.076	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.51	0.43	0.30	0.52	0.26	0.13
	Right Tilted	0.061	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.50	0.42	0.27	0.49	0.28	0.13
	Left Cheek	0.120	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.56	0.69	0.46	0.64	0.43	0.20
	Left Tilted	0.059	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.50	0.54	0.28	0.51	0.35	0.09
FR1 n66Ant 2	Right Cheek	0.835	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.27	1.19	1.06	1.28	1.02	0.89
	Right Tilted	0.835	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.27	1.19	1.05	1.27	1.05	0.91
	Left Cheek	0.835	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.27	1.40	1.17	1.36	1.15	0.92
	Left Tilted	0.835	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.27	1.32	1.06	1.28	1.13	0.87
FR1 n7Ant 1	Right Cheek	0.096	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.53	0.45	0.32	0.54	0.28	0.15
	Right Tilted	0.053	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.49	0.41	0.26	0.49	0.27	0.12
	Left Cheek	0.068	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.51	0.64	0.40	0.59	0.38	0.15
	Left Tilted	0.065	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.50	0.55	0.29	0.51	0.36	0.10
FR1 n38Ant 1	Right Cheek	0.074	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	0.51	0.43	0.30	0.52	0.26	0.13
	Right Tilted	0.042	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	0.48	0.40	0.25	0.48	0.26	0.11
	Left Cheek	0.056	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	0.49	0.62	0.39	0.58	0.37	0.14
	Left Tilted	0.057	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	0.49	0.54	0.28	0.50	0.35	0.09
FR1 n7Ant 2	Right Cheek	0.935	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.37	1.29	1.16	1.38	1.12	0.99
	Right Tilted	0.935	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.37	1.29	1.15	1.37	1.15	1.01
	Left Cheek	0.935	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.37	1.50	1.27	1.46	1.25	1.02
	Left Tilted	0.935	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.37	1.42	1.16	1.38	1.23	0.97
FR1 n38Ant 2	Right Cheek	0.933	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.37	1.29	1.16	1.38	1.12	0.99
	Right Tilted	0.933	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.37	1.29	1.14	1.37	1.15	1.00



# FCC SAR Test Report

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FR1 n77 part27OAnt 4	Left Cheek	0.933	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.37	1.50	1.27	1.45	1.25	1.01
	Left Tilted	0.933	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.37	1.42	1.16	1.38	1.23	0.96
	Right Cheek	0.868	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.31	1.22	1.09	1.32	1.05	0.92
	Right Tilted	0.868	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.31	1.22	1.08	1.30	1.08	0.94
	Left Cheek	0.868	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.31	1.44	1.20	1.39	1.18	0.95
FR1 n77 Part 27QAnt 4	Left Tilted	0.868	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.31	1.35	1.09	1.31	1.16	0.90
	Right Cheek	0.936	0.683	0.437	0.226	0.221	0.133	0.002	0.053	0.90	1.37	1.29	1.16	1.38	1.12	0.99
	Right Tilted	0.936	0.683	0.437	0.226	0.207	0.147	0.004	0.067	0.89	1.37	1.29	1.15	1.37	1.15	1.01
	Left Cheek	0.936	0.683	0.437	0.226	0.295	0.272	0.040	0.041	0.98	1.37	1.50	1.27	1.46	1.25	1.02
	Left Tilted	0.936	0.683	0.437	0.226	0.220	0.265	0.002	0.028	0.90	1.37	1.42	1.16	1.38	1.23	0.97

WWAN Band	Exposure Position	1	2	4	9	2+9 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN DBS WLAN	2.4GHz WLAN WWAN + DBS	WIFI 6E		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850Ant 1	Right Cheek	0.319	0.683	0.226	0.053	0.74	0.60
	Right Tilted	0.149	0.683	0.226	0.067	0.75	0.44
	Left Cheek	0.306	0.683	0.226	0.041	0.72	0.57
	Left Tilted	0.185	0.683	0.226	0.028	0.71	0.44
GSM1900Ant 1	Right Cheek	0.043	0.683	0.226	0.053	0.74	0.32
	Right Tilted	0.034	0.683	0.226	0.067	0.75	0.33
	Left Cheek	0.058	0.683	0.226	0.041	0.72	0.33
	Left Tilted	0.047	0.683	0.226	0.028	0.71	0.30
WCDMA IIAnt 1	Right Cheek	0.119	0.683	0.226	0.053	0.74	0.40
	Right Tilted	0.100	0.683	0.226	0.067	0.75	0.39
	Left Cheek	0.192	0.683	0.226	0.041	0.72	0.46
	Left Tilted	0.102	0.683	0.226	0.028	0.71	0.36
WCDMA IVAnt 1	Right Cheek	0.118	0.683	0.226	0.053	0.74	0.40
	Right Tilted	0.110	0.683	0.226	0.067	0.75	0.40
	Left Cheek	0.179	0.683	0.226	0.041	0.72	0.45
	Left Tilted	0.119	0.683	0.226	0.028	0.71	0.37
WCDMA VAnt 1	Right Cheek	0.412	0.683	0.226	0.053	0.74	0.69
	Right Tilted	0.184	0.683	0.226	0.067	0.75	0.48
	Left Cheek	0.371	0.683	0.226	0.041	0.72	0.64
	Left Tilted	0.222	0.683	0.226	0.028	0.71	0.48
LTE Band 2Ant 1	Right Cheek	0.111	0.683	0.226	0.053	0.74	0.39
	Right Tilted	0.086	0.683	0.226	0.067	0.75	0.38
	Left Cheek	0.167	0.683	0.226	0.041	0.72	0.43
	Left Tilted	0.089	0.683	0.226	0.028	0.71	0.34
LTE Band 7Ant 1	Right Cheek	0.163	0.683	0.226	0.053	0.74	0.44
	Right Tilted	0.079	0.683	0.226	0.067	0.75	0.37
	Left Cheek	0.118	0.683	0.226	0.041	0.72	0.39
	Left Tilted	0.085	0.683	0.226	0.028	0.71	0.34
LTE Band 12Ant 1	Right Cheek	0.103	0.683	0.226	0.053	0.74	0.38
	Right Tilted	0.037	0.683	0.226	0.067	0.75	0.33
	Left Cheek	0.091	0.683	0.226	0.041	0.72	0.36
	Left Tilted	0.044	0.683	0.226	0.028	0.71	0.30
LTE Band 13Ant 1	Right Cheek	0.185	0.683	0.226	0.053	0.74	0.46
	Right Tilted	0.107	0.683	0.226	0.067	0.75	0.40
	Left Cheek	0.168	0.683	0.226	0.041	0.72	0.44
	Left Tilted	0.114	0.683	0.226	0.028	0.71	0.37
LTE Band 26Ant 1	Right Cheek	0.278	0.683	0.226	0.053	0.74	0.56
	Right Tilted	0.151	0.683	0.226	0.067	0.75	0.44
	Left Cheek	0.269	0.683	0.226	0.041	0.72	0.54
	Left Tilted	0.157	0.683	0.226	0.028	0.71	0.41
LTE Band 66Ant 1	Right Cheek	0.120	0.683	0.226	0.053	0.74	0.40



	Right Tilted	0.105	0.683	0.226	0.067	0.75	0.40
	Left Cheek	0.190	0.683	0.226	0.041	0.72	0.46
	Left Tilted	0.114	0.683	0.226	0.028	0.71	0.37
LTE Band 41Ant 1	Right Cheek	0.112	0.683	0.226	0.053	0.74	0.39
	Right Tilted	0.042	0.683	0.226	0.067	0.75	0.34
	Left Cheek	0.071	0.683	0.226	0.041	0.72	0.34
LTE Band 12Ant 2	Left Tilted	0.058	0.683	0.226	0.028	0.71	0.31
	Right Cheek	0.757	0.683	0.226	0.053	0.74	1.04
	Right Tilted	0.757	0.683	0.226	0.067	0.75	1.05
WCDMA VAnt 2	Left Cheek	0.757	0.683	0.226	0.041	0.72	1.02
	Left Tilted	0.757	0.683	0.226	0.028	0.71	1.01
	Right Cheek	0.942	0.683	0.226	0.053	0.74	1.22
LTE Band 26Ant 2	Right Tilted	0.942	0.683	0.226	0.067	0.75	1.24
	Left Cheek	0.942	0.683	0.226	0.041	0.72	1.21
	Left Tilted	0.942	0.683	0.226	0.028	0.71	1.20
LTE Band 66Ant 2	Right Cheek	0.953	0.683	0.226	0.053	0.74	1.23
	Right Tilted	0.953	0.683	0.226	0.067	0.75	1.25
	Left Cheek	0.953	0.683	0.226	0.041	0.72	1.22
LTE Band 7Ant 2	Left Tilted	0.953	0.683	0.226	0.028	0.71	1.21
	Right Cheek	0.866	0.683	0.226	0.053	0.74	1.15
	Right Tilted	0.866	0.683	0.226	0.067	0.75	1.16
LTE Band 42	Left Cheek	0.866	0.683	0.226	0.041	0.72	1.13
	Left Tilted	0.866	0.683	0.226	0.028	0.71	1.12
	Right Cheek	0.975	0.683	0.226	0.053	0.74	1.25
FR1 n5Ant 1	Right Tilted	0.975	0.683	0.226	0.067	0.75	1.27
	Left Cheek	0.975	0.683	0.226	0.041	0.72	1.24
	Left Tilted	0.975	0.683	0.226	0.028	0.71	1.23
FR1 n5Ant 2	Right Cheek	0.942	0.683	0.226	0.053	0.74	1.22
	Right Tilted	0.942	0.683	0.226	0.067	0.75	1.24
	Left Cheek	0.942	0.683	0.226	0.041	0.72	1.21
FR1 n66Ant 1	Left Tilted	0.942	0.683	0.226	0.028	0.71	1.20
	Right Cheek	0.249	0.683	0.226	0.053	0.74	0.53
	Right Tilted	0.200	0.683	0.226	0.067	0.75	0.49
FR1 n66Ant 2	Left Cheek	0.229	0.683	0.226	0.041	0.72	0.50
	Left Tilted	0.190	0.683	0.226	0.028	0.71	0.44
	Right Cheek	0.962	0.683	0.226	0.053	0.74	1.24
FR1 n7Ant 1	Right Tilted	0.962	0.683	0.226	0.067	0.75	1.26
	Left Cheek	0.962	0.683	0.226	0.041	0.72	1.23
	Left Tilted	0.962	0.683	0.226	0.028	0.71	1.22
FR1 n38Ant 1	Right Cheek	0.076	0.683	0.226	0.053	0.74	0.36
	Right Tilted	0.061	0.683	0.226	0.067	0.75	0.35
	Left Cheek	0.120	0.683	0.226	0.041	0.72	0.39
FR1 n7Ant 2	Left Tilted	0.059	0.683	0.226	0.028	0.71	0.31
	Right Cheek	0.835	0.683	0.226	0.053	0.74	1.11
	Right Tilted	0.835	0.683	0.226	0.067	0.75	1.13
FR1 n38Ant 1	Left Cheek	0.835	0.683	0.226	0.041	0.72	1.10
	Left Tilted	0.835	0.683	0.226	0.028	0.71	1.09
	Right Cheek	0.096	0.683	0.226	0.053	0.74	0.38
FR1 n7Ant 2	Right Tilted	0.053	0.683	0.226	0.067	0.75	0.35
	Left Cheek	0.068	0.683	0.226	0.041	0.72	0.34
	Left Tilted	0.065	0.683	0.226	0.028	0.71	0.32
FR1 n38Ant 1	Right Cheek	0.074	0.683	0.226	0.053	0.74	0.35
	Right Tilted	0.042	0.683	0.226	0.067	0.75	0.34
	Left Cheek	0.056	0.683	0.226	0.041	0.72	0.32
FR1 n7Ant 2	Left Tilted	0.057	0.683	0.226	0.028	0.71	0.31
FR1 n7Ant 2	Right Cheek	0.935	0.683	0.226	0.053	0.74	1.21



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	Right Tilted	0.935	0.683	0.226	0.067	0.75	1.23
	Left Cheek	0.935	0.683	0.226	0.041	0.72	1.20
	Left Tilted	0.935	0.683	0.226	0.028	0.71	1.19
FR1 n38Ant 2	Right Cheek	0.933	0.683	0.226	0.053	0.74	1.21
	Right Tilted	0.933	0.683	0.226	0.067	0.75	1.23
	Left Cheek	0.933	0.683	0.226	0.041	0.72	1.20
	Left Tilted	0.933	0.683	0.226	0.028	0.71	1.19
FR1 n77 part27OAnt 4	Right Cheek	0.868	0.683	0.226	0.053	0.74	1.15
	Right Tilted	0.868	0.683	0.226	0.067	0.75	1.16
	Left Cheek	0.868	0.683	0.226	0.041	0.72	1.14
	Left Tilted	0.868	0.683	0.226	0.028	0.71	1.12
FR1 n77 Part 27QAnt 4	Right Cheek	0.936	0.683	0.226	0.053	0.74	1.22
	Right Tilted	0.936	0.683	0.226	0.067	0.75	1.23
	Left Cheek	0.936	0.683	0.226	0.041	0.72	1.20
	Left Tilted	0.936	0.683	0.226	0.028	0.71	1.19



17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN DBS WLAN	2.4GHz WLAN WWAN + WLAN	2.4GHz WLAN WWAN + DBS	5GHz WLAN DBS WLAN	5GHz WLAN WWAN + WLAN	5GHz WLAN WWAN + DBS	Bluetooth Ant 3	Bluetooth Ant 6					
GSM850Ant 1	Front	0.514	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.97	1.09	1.02	1.02
	Back	0.807	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.26	1.43	1.42	1.31
	Left side	0.124	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.58	0.62	0.62	0.63
	Right side	0.152	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.60	0.72	0.68	0.66
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.463	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.92	0.96	0.96	0.97
GSM1900Ant 1	Front	0.212	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.66	0.79	0.72	0.72
	Back	0.393	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.85	1.02	1.01	0.90
	Left side	0.011	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.46	0.51	0.51	0.52
	Right side	0.025	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.48	0.59	0.55	0.53
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.716	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.17	1.21	1.21	1.22
WCDMA IIAnt 1	Front	0.469	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.92	1.05	0.98	0.98
	Back	0.572	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.02	1.20	1.19	1.08
	Left side	0.025	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.48	0.52	0.52	0.53
	Right side	0.045	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.50	0.61	0.57	0.55
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.934	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.39	1.43	1.43	1.44
WCDMA IVAnt 1	Front	0.502	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.95	1.08	1.01	1.01
	Back	0.579	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.03	1.20	1.19	1.09
	Left side	0.035	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.49	0.53	0.53	0.54
	Right side	0.061	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.51	0.63	0.59	0.57
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.942	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.39	1.44	1.44	1.45
WCDMA VAnt 1	Front	0.557	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.01	1.14	1.07	1.06
	Back	0.929	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.38	1.55	1.54	1.44
	Left side	0.124	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.58	0.62	0.62	0.63
	Right side	0.161	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.61	0.73	0.69	0.67
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.533	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.99	1.03	1.03	1.04
LTE Band 2Ant 1	Front	0.409	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.86	0.99	0.92	0.92
	Back	0.442	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.89	1.07	1.06	0.95
	Left side	0.025	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.48	0.52	0.52	0.53
	Right side	0.045	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.50	0.61	0.57	0.55
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.925	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.38	1.42	1.42	1.43
LTE Band 7Ant 1	Front	0.320	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.77	0.90	0.83	0.83
	Back	0.399	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.85	1.02	1.01	0.91
	Left side	0.012	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.46	0.51	0.51	0.52
	Right side	0.063	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.52	0.63	0.59	0.57
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.942	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.39	1.44	1.44	1.45
LTE Band 12Ant 1	Front	0.360	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.81	0.94	0.87	0.87
	Back	0.497	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.95	1.12	1.11	1.00
	Left side	0.159	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.61	0.66	0.66	0.67
	Right side	0.198	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.65	0.76	0.73	0.71
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.61	0.51	0.51



	Bottom side	0.424	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.88	0.92	0.92	0.93
LTE Band 13Ant 1	Front	0.613	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.07	1.19	1.12	1.12
	Back	0.775	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.23	1.40	1.39	1.28
	Left side	0.257	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.71	0.75	0.75	0.76
	Right side	0.353	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.81	0.92	0.88	0.86
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.637	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.09	1.13	1.13	1.14
LTE Band 26Ant 1	Front	0.614	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.07	1.19	1.12	1.12
	Back	0.934	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.39	1.56	1.55	1.44
	Left side	0.177	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.63	0.67	0.67	0.68
	Right side	0.245	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.70	0.81	0.77	0.75
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.575	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.03	1.07	1.07	1.08
LTE Band 66Ant 1	Front	0.406	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.86	0.99	0.91	0.91
	Back	0.626	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.08	1.25	1.24	1.13
	Left side	0.041	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.49	0.54	0.54	0.55
	Right side	0.065	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.52	0.63	0.59	0.57
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.941	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.39	1.44	1.44	1.45
LTE Band 41Ant 1	Front	0.411	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.86	0.99	0.92	0.92
	Back	0.457	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.91	1.08	1.07	0.96
	Left side	0.029	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.48	0.53	0.53	0.54
	Right side	0.086	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.54	0.65	0.62	0.59
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.945	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.40	1.44	1.44	1.45
LTE Band 12Ant 2	Front	0.534	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.99	1.11	1.04	1.04
	Back	0.902	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.35	1.53	1.52	1.41
	Left side	0.269	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.72	0.77	0.77	0.78
	Right side	0.247	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.70	0.81	0.78	0.75
	Top side	0.287	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.74	0.89	0.80	0.79
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
WCDMA VAnt 2	Front	0.611	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.06	1.19	1.12	1.12
	Back	0.895	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.35	1.52	1.51	1.40
	Left side	0.134	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.59	0.63	0.63	0.64
	Right side	0.178	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.63	0.74	0.71	0.69
	Top side	0.601	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	1.05	1.21	1.11	1.11
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
LTE Band 26Ant 2	Front	0.659	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.11	1.24	1.17	1.17
	Back	0.934	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.39	1.56	1.55	1.44
	Left side	0.151	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.60	0.65	0.65	0.66
	Right side	0.177	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.63	0.74	0.71	0.68
	Top side	0.532	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.98	1.14	1.04	1.04
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
LTE Band 66Ant 2	Front	0.362	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.81	0.94	0.87	0.87
	Back	0.564	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.02	1.19	1.18	1.07
	Left side	0.073	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.53	0.57	0.57	0.58
	Right side	0.030	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.48	0.60	0.56	0.54
	Top side	0.934	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	1.39	1.54	1.44	1.44
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
LTE Band 7Ant 2	Front	0.863	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.32	1.44	1.37	1.37
	Back	0.771	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.22	1.40	1.39	1.28
	Left side	0.737	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.19	1.23	1.23	1.24
	Right side	0.069	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.52	0.63	0.60	0.58
	Top side	0.928	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	1.38	1.53	1.44	1.44
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
LTE Band 42	Front	0.868	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.32	1.45	1.38	1.38





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part 27QAnt 4	Back	0.558	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.01	1.18	1.17	1.07
	Left side	0.948	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.40	1.45	1.45	1.46
	Right side		0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.45	0.57	0.53	0.51
	Top side	0.231	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.68	0.84	0.74	0.74
	Bottom side	0.030	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.48	0.53	0.53	0.54
FR1 n5Ant 1	Front	0.680	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.13	1.26	1.19	1.19
	Back	0.933	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.39	1.56	1.55	1.44
	Left side	0.214	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.67	0.71	0.71	0.72
	Right side	0.341	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.79	0.91	0.87	0.85
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
FR1 n5Ant 2	Bottom side	0.625	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.08	1.12	1.12	1.13
	Front	0.508	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.96	1.09	1.02	1.02
	Back	0.807	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.26	1.43	1.42	1.31
	Left side	0.101	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.55	0.60	0.60	0.61
	Right side	0.120	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.57	0.69	0.65	0.63
FR1 n66Ant 1	Top side	0.399	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.85	1.00	0.91	0.91
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
	Front	0.460	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.91	1.04	0.97	0.97
	Back	0.707	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.16	1.33	1.32	1.21
	Left side	0.110	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.56	0.61	0.61	0.62
FR1 n66Ant 2	Right side	0.175	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.63	0.74	0.70	0.68
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.937	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.39	1.43	1.43	1.44
	Front	0.262	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.71	0.84	0.77	0.77
	Back	0.506	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.96	1.13	1.12	1.01
FR1 n7Ant 1	Left side	0.043	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.50	0.54	0.54	0.55
	Right side	0.025	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.48	0.59	0.55	0.53
	Top side	0.936	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	1.39	1.54	1.45	1.44
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
	Front	0.391	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.84	0.97	0.90	0.90
FR1 n7Ant 2	Back	0.403	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.86	1.03	1.02	0.91
	Left side	0.015	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.47	0.51	0.51	0.52
	Right side	0.108	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.56	0.67	0.64	0.62
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
	Bottom side	0.939	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.39	1.44	1.44	1.45
FR1 n38Ant 1	Front	0.364	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.82	0.94	0.87	0.87
	Back	0.670	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.12	1.29	1.28	1.18
	Left side	0.059	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.51	0.56	0.56	0.57
	Right side	0.093	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.55	0.66	0.62	0.60
	Top side		0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.45	0.61	0.51	0.51
FR1 n7Ant 2	Bottom side	0.931	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.38	1.43	1.43	1.44
	Front	0.556	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.01	1.14	1.06	1.06
	Back	0.827	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	1.28	1.45	1.44	1.33
	Left side	0.621	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.07	1.12	1.12	1.13
	Right side	0.058	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.51	0.62	0.59	0.57
FR1 n38Ant 2	Top side	0.897	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	1.35	1.50	1.41	1.40
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
	Front	0.702	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	1.15	1.28	1.21	1.21
	Back	0.522	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.97	1.15	1.14	1.03
	Left side	0.578	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.03	1.08	1.08	1.09
FR1 n77 part 27OAnt 4	Right side	0.054	0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.51	0.62	0.58	0.56
	Top side	0.937	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	1.39	1.54	1.45	1.44
	Bottom side	0.074	0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.53	0.57	0.57	0.58
FR1 n77 part 27OAnt 4	Front	0.353	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.81	0.93	0.86	0.86
	Back	0.235	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.69	0.86	0.85	0.74
	Left side	0.844	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.30	1.34	1.34	1.35



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	Right side		0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.45	0.57	0.53	0.51
	Top side	0.120	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.57	0.73	0.63	0.63
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51
FR1 n77 part 27QAnt 4	Front	0.396	0.731	0.452	0.287	0.706	0.497	0.220	0.083	0.011	1.44	0.85	0.98	0.90	0.90
	Back	0.303	0.731	0.452	0.287	0.706	0.497	0.220	0.127	0.117	1.44	0.76	0.93	0.92	0.81
	Left side	0.923	0.731	0.452	0.287	0.706	0.497	0.220			1.44	1.38	1.42	1.42	1.43
	Right side		0.731	0.452	0.287	0.706	0.497	0.220	0.068	0.032	1.44	0.45	0.57	0.53	0.51
	Top side	0.107	0.731	0.452	0.287	0.706	0.497	0.220	0.108	0.013	1.44	0.56	0.71	0.62	0.61
	Bottom side		0.731	0.452	0.287	0.706	0.497	0.220			1.44	0.45	0.50	0.50	0.51



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Standalone & DBS 1g SAR (W/kg)	2.4GHz WLAN WWAN + DBS 1g SAR (W/kg)	5GHz WLAN Standalone 1g SAR (W/kg)	5GHz WLAN DBS only 1g SAR (W/kg)	5GHz WLAN WWAN + WLAN 1g SAR (W/kg)	5GHz WLAN WWAN + DBS 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WiFi 6E 1g SAR (W/kg)							
GSM850Ant 1	Front	0.514	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.03	1.09	1.02	1.08	0.83	0.75
	Back	0.807	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.30	1.43	1.42	1.38	1.15	1.14
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.807		0.275		0.720	0.497	0.293				0.72	0.81	1.30	1.30	1.38	0.81	0.81
GSM1900Ant 1	Front	0.212	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.73	0.79	0.72	0.78	0.52	0.45
	Back	0.393	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.88	1.02	1.01	0.96	0.74	0.73
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
WCDMA II Ant 1	Front	0.469	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.98	1.05	0.98	1.04	0.78	0.71
	Back	0.572	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.06	1.20	1.19	1.14	0.92	0.91
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.572		0.275		0.720	0.497	0.293				0.72	0.57	1.07	1.07	1.14	0.57	0.57
WCDMA IV Ant 1	Front	0.502	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.02	1.08	1.01	1.07	0.81	0.74
	Back	0.579	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.07	1.20	1.19	1.15	0.92	0.91
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.579		0.275		0.720	0.497	0.293				0.72	0.58	1.08	1.08	1.15	0.58	0.58
WCDMA V Ant 1	Front	0.557	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.07	1.14	1.07	1.13	0.87	0.80
	Back	0.929	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.42	1.55	1.54	1.50	1.27	1.26
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.929		0.275		0.720	0.497	0.293				0.72	0.93	1.43	1.43	1.50	0.93	0.93
LTE Band 2 Ant 1	Front	0.409	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.92	0.99	0.92	0.98	0.72	0.65
	Back	0.442	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.93	1.07	1.06	1.01	0.79	0.78
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.447		0.275		0.720	0.497	0.293				0.72	0.45	0.94	0.94	1.02	0.45	0.45
LTE Band 7 Ant 1	Front	0.320	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.83	0.90	0.83	0.89	0.63	0.56
	Back	0.399	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.89	1.02	1.01	0.97	0.74	0.73
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.399		0.275		0.720	0.497	0.293				0.72	0.40	0.90	0.90	0.97	0.40	0.40
LTE Band 12 Ant 1	Front	0.360	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.87	0.94	0.87	0.93	0.67	0.60
	Back	0.497	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.99	1.12	1.11	1.07	0.84	0.83
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
LTE Band 13 Ant 1	Front	0.613	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.13	1.19	1.12	1.18	0.92	0.85
	Back	0.775	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.26	1.40	1.39	1.34	1.12	1.11
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
LTE Band 26 Ant 1	Front	0.614	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.13	1.19	1.12	1.18	0.93	0.85
	Back	0.934	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.42	1.56	1.55	1.50	1.28	1.27
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.934		0.275		0.720	0.497	0.293				0.72	0.93	1.43	1.43	1.50	0.93	0.93
LTE Band 66 Ant 1	Front	0.406	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.92	0.99	0.91	0.97	0.72	0.65
	Back	0.626	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.12	1.25	1.24	1.19	0.97	0.96
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.626		0.275		0.720	0.497	0.293				0.72	0.63	1.12	1.12	1.19	0.63	0.63
LTE Band 41_HPUE Ant 1	Front	0.411	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.93	0.99	0.92	0.98	0.72	0.65
	Back	0.457	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.95	1.08	1.07	1.03	0.80	0.79



**FCC SAR Test Report**

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	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.878		0.275		0.720	0.497	0.293				0.72	0.88	1.38	1.38	1.45	0.88	0.88
LTE Band 12Ant 2	Front	0.534	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.05	1.11	1.04	1.10	0.85	0.77
	Back	0.902	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.39	1.53	1.52	1.47	1.25	1.24
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
WCDMA VAnt 2	Front	0.611	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.13	1.19	1.12	1.18	0.92	0.85
	Back	0.895	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.38	1.52	1.51	1.46	1.24	1.23
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.895		0.275		0.720	0.497	0.293				0.72	0.90	1.39	1.39	1.46	0.90	0.90
LTE Band 26Ant 2	Front	0.659	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.17	1.24	1.17	1.23	0.97	0.90
	Back	0.934	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.42	1.56	1.55	1.50	1.28	1.27
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
LTE Band 66Ant 2	Front	0.362	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.88	0.94	0.87	0.93	0.67	0.60
	Back	0.564	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.05	1.19	1.18	1.13	0.91	0.90
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.564		0.275		0.720	0.497	0.293				0.72	0.56	1.06	1.06	1.13	0.56	0.56
LTE Band 7Ant 2	Front	0.863	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.38	1.44	1.37	1.43	1.17	1.10
	Back	0.771	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.26	1.40	1.39	1.34	1.12	1.11
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.851		0.275		0.720	0.497	0.293				0.72	0.85	1.35	1.35	1.42	0.85	0.85
LTE Band 42 part 27QAnt 4	Front	0.868	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.38	1.45	1.38	1.44	1.18	1.11
	Back	0.558	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.05	1.18	1.17	1.13	0.90	0.89
	Front Headset	0.868		0.275		0.720	0.497	0.293				0.72	0.87	1.37	1.37	1.44	0.87	0.87
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n5Ant 1	Front	0.680	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.19	1.26	1.19	1.25	0.99	0.92
	Back	0.933	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.42	1.56	1.55	1.50	1.28	1.27
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n5Ant 2	Front	0.508	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.02	1.09	1.02	1.08	0.82	0.75
	Back	0.807	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.30	1.43	1.42	1.38	1.15	1.14
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n66Ant 1	Front	0.460	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.97	1.04	0.97	1.03	0.77	0.70
	Back	0.707	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.20	1.33	1.32	1.28	1.05	1.04
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.707		0.275		0.720	0.497	0.293				0.72	0.71	1.20	1.20	1.28	0.71	0.71
FR1 n66Ant 2	Front	0.262	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.78	0.84	0.77	0.83	0.57	0.50
	Back	0.506	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.00	1.13	1.12	1.07	0.85	0.84
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n7Ant 1	Front	0.391	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.91	0.97	0.90	0.96	0.70	0.63
	Back	0.403	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.89	1.03	1.02	0.97	0.75	0.74
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n7Ant 2	Front	0.556	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.07	1.14	1.06	1.12	0.87	0.80
	Back	0.827	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.32	1.45	1.44	1.40	1.17	1.16
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n38Ant 1	Front	0.364	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.88	0.94	0.87	0.93	0.68	0.60
	Back	0.670	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.16	1.29	1.28	1.24	1.01	1.00
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n38Ant 2	Front	0.702	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.22	1.28	1.21	1.27	1.01	0.94
	Back	0.522	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.01	1.15	1.14	1.09	0.87	0.86



**FCC SAR Test Report**

**Report No. : FA172703**

	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset	0.669		0.275		0.720	0.497	0.293				0.72	0.67	1.17	1.17	1.24	0.67	0.67
FR1 n77 part 27OAnt 4	Front	0.353	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.87	0.93	0.86	0.92	0.66	0.59
	Back	0.235	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.72	0.86	0.85	0.80	0.58	0.57
	Front Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
	Back Headset			0.275		0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.57	0.00	0.00
FR1 n77 Part 27QAnt 4	Front	0.396	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.91	0.98	0.90	0.96	0.71	0.64
	Back	0.303	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.79	0.93	0.92	0.87	0.65	0.64
	Front Headset	0.396				0.720	0.497	0.293				0.72	0.40	0.89	0.89	0.69	0.40	0.40
	Back Headset					0.720	0.497	0.293				0.72	0.00	0.50	0.50	0.29	0.00	0.00

WWAN Band	Exposure Position	1	2	3	10	2+10 Summed 1g SAR (W/kg)	1+3+10 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Standalone &DBS	2.4GHz WLAN WWAN + DBS	WIFI 6E		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850Ant 1	Front	0.514	0.514	0.275	0.228	0.74	1.02
	Back	0.807	0.489	0.275	0.217	0.71	1.30
	Front Headset			0.275		0.00	0.28
	Back Headset	0.807		0.275		0.00	1.08
GSM1900Ant 1	Front	0.212	0.514	0.275	0.228	0.74	0.72
	Back	0.393	0.489	0.275	0.217	0.71	0.89
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
WCDMA IIAnt 1	Front	0.469	0.514	0.275	0.228	0.74	0.97
	Back	0.572	0.489	0.275	0.217	0.71	1.06
	Front Headset			0.275		0.00	0.28
	Back Headset	0.572		0.275		0.00	0.85
WCDMA IVAnt 1	Front	0.502	0.514	0.275	0.228	0.74	1.01
	Back	0.579	0.489	0.275	0.217	0.71	1.07
	Front Headset			0.275		0.00	0.28
	Back Headset	0.579		0.275		0.00	0.85
WCDMA VAnt 1	Front	0.557	0.514	0.275	0.228	0.74	1.06
	Back	0.929	0.489	0.275	0.217	0.71	1.42
	Front Headset			0.275		0.00	0.28
	Back Headset	0.929		0.275		0.00	1.20
LTE Band 2Ant 1	Front	0.409	0.514	0.275	0.228	0.74	0.91
	Back	0.442	0.489	0.275	0.217	0.71	0.93
	Front Headset			0.275		0.00	0.28
	Back Headset	0.447		0.275		0.00	0.72
LTE Band 7Ant 1	Front	0.320	0.514	0.275	0.228	0.74	0.82
	Back	0.399	0.489	0.275	0.217	0.71	0.89
	Front Headset			0.275		0.00	0.28
	Back Headset	0.399		0.275		0.00	0.67
LTE Band 12Ant 1	Front	0.360	0.514	0.275	0.228	0.74	0.86
	Back	0.497	0.489	0.275	0.217	0.71	0.99
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
LTE Band 13Ant 1	Front	0.613	0.514	0.275	0.228	0.74	1.12
	Back	0.775	0.489	0.275	0.217	0.71	1.27
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
LTE Band 26Ant 1	Front	0.614	0.514	0.275	0.228	0.74	1.12
	Back	0.934	0.489	0.275	0.217	0.71	1.43
	Front Headset			0.275		0.00	0.28
	Back Headset	0.934		0.275		0.00	1.21

**Sporton International (Kunshan) Inc.**

TEL : 86-512-57900158 / FAX : 86-512-57900958

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Issued Date : Nov. 03, 2021

Form version. : 200414



LTE Band 66Ant 1	Front	0.406	0.514	0.275	0.228	0.74	0.91
	Back	0.626	0.489	0.275	0.217	0.71	1.12
	Front Headset			0.275		0.00	0.28
	Back Headset	0.626		0.275		0.00	0.90
LTE Band 41_HPUEAnt 1	Front	0.411	0.514	0.275	0.228	0.74	0.91
	Back	0.457	0.489	0.275	0.217	0.71	0.95
	Front Headset			0.275		0.00	0.28
	Back Headset	0.878		0.275		0.00	1.15
LTE Band 12Ant 2	Front	0.534	0.514	0.275	0.228	0.74	1.04
	Back	0.902	0.489	0.275	0.217	0.71	1.39
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
WCDMA VAnt 2	Front	0.611	0.514	0.275	0.228	0.74	1.11
	Back	0.895	0.489	0.275	0.217	0.71	1.39
	Front Headset			0.275		0.00	0.28
	Back Headset	0.895		0.275		0.00	1.17
LTE Band 26Ant 2	Front	0.659	0.514	0.275	0.228	0.74	1.16
	Back	0.934	0.489	0.275	0.217	0.71	1.43
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
LTE Band 66Ant 2	Front	0.362	0.514	0.275	0.228	0.74	0.87
	Back	0.564	0.489	0.275	0.217	0.71	1.06
	Front Headset			0.275		0.00	0.28
	Back Headset	0.564		0.275		0.00	0.84
LTE Band 7Ant 2	Front	0.863	0.514	0.275	0.228	0.74	1.37
	Back	0.771	0.489	0.275	0.217	0.71	1.26
	Front Headset			0.275		0.00	0.28
	Back Headset	0.851		0.275		0.00	1.13
LTE Band 42 part 27QAnt 4	Front	0.868	0.514	0.275	0.228	0.74	1.37
	Back	0.558	0.489	0.275	0.217	0.71	1.05
	Front Headset	0.868		0.275		0.00	1.14
	Back Headset			0.275		0.00	0.28
FR1 n5Ant 1	Front	0.680	0.514	0.275	0.228	0.74	1.18
	Back	0.933	0.489	0.275	0.217	0.71	1.43
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
FR1 n5Ant 2	Front	0.508	0.514	0.275	0.228	0.74	1.01
	Back	0.807	0.489	0.275	0.217	0.71	1.30
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
FR1 n66Ant 1	Front	0.460	0.514	0.275	0.228	0.74	0.96
	Back	0.707	0.489	0.275	0.217	0.71	1.20
	Front Headset			0.275		0.00	0.28
	Back Headset	0.707		0.275		0.00	0.98
FR1 n66Ant 2	Front	0.262	0.514	0.275	0.228	0.74	0.77
	Back	0.506	0.489	0.275	0.217	0.71	1.00
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
FR1 n7Ant 1	Front	0.391	0.514	0.275	0.228	0.74	0.89
	Back	0.403	0.489	0.275	0.217	0.71	0.90
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
FR1 n7Ant 2	Front	0.556	0.514	0.275	0.228	0.74	1.06
	Back	0.827	0.489	0.275	0.217	0.71	1.32
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28





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FR1 n38Ant 1	Front	0.364	0.514	0.275	0.228	0.74	0.87
	Back	0.670	0.489	0.275	0.217	0.71	1.16
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
FR1 n38Ant 2	Front	0.702	0.514	0.275	0.228	0.74	1.21
	Back	0.522	0.489	0.275	0.217	0.71	1.01
	Front Headset			0.275		0.00	0.28
	Back Headset	0.669		0.275		0.00	0.94
FR1 n77 part 27OAnt 4	Front	0.353	0.514	0.275	0.228	0.74	0.86
	Back	0.235	0.489	0.275	0.217	0.71	0.73
	Front Headset			0.275		0.00	0.28
	Back Headset			0.275		0.00	0.28
FR1 n77 Part 27QAnt 4	Front	0.396	0.514	0.275	0.228	0.74	0.90
	Back	0.303	0.489	0.275	0.217	0.71	0.80
	Front Headset	0.396				0.00	0.40
	Back Headset					0.00	0.00



<Sensor Off>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Standalone & DBS 1g SAR (W/kg)	2.4GHz WLAN WWAN + DBS 1g SAR (W/kg)	5GHz WLAN Standalone 1g SAR (W/kg)	5GHz WLAN DBS only 1g SAR (W/kg)	5GHz WLAN WWAN + WLAN 1g SAR (W/kg)	5GHz WLAN WWAN + DBS 1g SAR (W/kg)	Bluetooth Ant 3 10g SAR (W/kg)	Bluetooth Ant 6 10g SAR (W/kg)	WIFI 6E 1g SAR (W/kg)							
GSM850Ant 1	Front at 16mm	0.234	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.75	0.81	0.74	0.80	0.55	0.47
	Back at 17mm	0.239	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.73	0.86	0.85	0.81	0.58	0.57
GSM1900Ant 1	Front at 16mm	0.408	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.92	0.99	0.92	0.98	0.72	0.65
	Back at 17mm	0.680	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.17	1.30	1.29	1.25	1.02	1.01
WCDMA II Ant 1	Front at 16mm	0.824	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.34	1.40	1.33	1.39	1.14	1.06
	Back at 17mm	0.935	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.42	1.56	1.55	1.50	1.28	1.27
WCDMA IV Ant 1	Front at 16mm	0.951	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.47	1.53	1.46	1.52	1.26	1.19
	Back at 17mm	0.892	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.38	1.52	1.51	1.46	1.24	1.23
LTE Band 2 Ant 1	Front at 16mm	0.849	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.36	1.43	1.36	1.42	1.16	1.09
	Back at 17mm	0.970	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.46	1.59	1.58	1.54	1.31	1.30
LTE Band 7 Ant 1	Front at 16mm	0.681	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.20	1.26	1.19	1.25	0.99	0.92
	Back at 17mm	0.688	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.18	1.31	1.30	1.26	1.03	1.02
LTE Band 66 Ant 1	Front at 16mm	0.916	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.43	1.50	1.42	1.48	1.23	1.16
	Back at 17mm	0.918	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.41	1.54	1.53	1.49	1.26	1.25
LTE Band 41_HPUE Ant 1	Front at 16mm		0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.51	0.58	0.51	0.57	0.31	0.24
	Back at 17mm	0.398	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.89	1.02	1.01	0.97	0.74	0.73
LTE Band 66 Ant 2	Front at 16mm	0.529	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.04	1.11	1.04	1.10	0.84	0.77
	Back at 17mm	0.797	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.29	1.42	1.41	1.37	1.14	1.13
LTE Band 42 part 27Q Ant 4	Front at 16mm	0.364	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.88	0.94	0.87	0.93	0.68	0.60
	Back at 17mm	0.298	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.79	0.92	0.91	0.87	0.64	0.63
FR1 n66 Ant 1	Front at 16mm	0.645	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	1.16	1.23	1.15	1.21	0.96	0.88
	Back at 17mm	0.902	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.39	1.53	1.52	1.47	1.25	1.24
FR1 n66 Ant 2	Front at 16mm	0.451	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.97	1.03	0.96	1.02	0.76	0.69
	Back at 17mm	0.633	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	1.12	1.26	1.25	1.20	0.98	0.97
FR1 n7 Ant 1	Front at 16mm	0.347	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.86	0.93	0.86	0.92	0.66	0.59
	Back at 17mm	0.324	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.81	0.95	0.94	0.89	0.67	0.66
FR1 n38 Ant 1	Front at 16mm	0.342	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.86	0.92	0.85	0.91	0.65	0.58
	Back at 17mm	0.360	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.85	0.98	0.97	0.93	0.70	0.69
FR1 n38 Ant 2	Front at 16mm	0.148	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.66	0.73	0.66	0.72	0.46	0.39
	Back at 17mm	0.155	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.64	0.78	0.77	0.72	0.50	0.49
FR1 n77 part 27Q Ant 4	Front at 16mm	0.265	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.78	0.85	0.77	0.83	0.58	0.50
	Back at 17mm	0.270	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.76	0.89	0.88	0.84	0.61	0.60
FR1 n77 Part 27Q Ant 4	Front at 16mm	0.263	0.514	0.275	0.073	0.720	0.497	0.293	0.083	0.011	0.228	1.23	0.78	0.84	0.77	0.83	0.57	0.50
	Back at 17mm	0.308	0.489	0.275	1.175	0.720	0.497	0.293	0.127	0.117	0.217	1.21	0.80	0.93	0.92	0.88	0.65	0.64



WWAN Band	Exposure Position	1	2	3	10	2+10 Summed 1g SAR (W/kg)	1+3+10 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Standalone& DBS	2.4GHz WLAN WWAN + DBS	WIFI 6E		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850Ant 1	Front at 16mm	0.234	0.514	0.275	0.228	0.74	0.74
	Back at 17mm	0.239	0.489	0.275	0.217	0.71	0.73
GSM1900Ant 1	Front at 16mm	0.408	0.514	0.275	0.228	0.74	0.91
	Back at 17mm	0.680	0.489	0.275	0.217	0.71	1.17
WCDMA IIAnt 1	Front at 16mm	0.824	0.514	0.275	0.228	0.74	1.33
	Back at 17mm	0.935	0.489	0.275	0.217	0.71	1.43
WCDMA IVAnt 1	Front at 16mm	0.951	0.514	0.275	0.228	0.74	1.45
	Back at 17mm	0.892	0.489	0.275	0.217	0.71	1.38
LTE Band 2Ant 1	Front at 16mm	0.849	0.514	0.275	0.228	0.74	1.35
	Back at 17mm	0.970	0.489	0.275	0.217	0.71	1.46
LTE Band 7Ant 1	Front at 16mm	0.681	0.514	0.275	0.228	0.74	1.18
	Back at 17mm	0.688	0.489	0.275	0.217	0.71	1.18
LTE Band 66Ant 1	Front at 16mm	0.916	0.514	0.275	0.228	0.74	1.42
	Back at 17mm	0.918	0.489	0.275	0.217	0.71	1.41
LTE Band 41_HPUEAnt 1	Front at 16mm	0.398	0.514	0.275	0.228	0.74	0.90
	Back at 17mm	0.398	0.489	0.275	0.217	0.71	0.89
LTE Band 66Ant 2	Front at 16mm	0.529	0.514	0.275	0.228	0.74	1.03
	Back at 17mm	0.797	0.489	0.275	0.217	0.71	1.29
LTE Band 42 part 27QAnt 4	Front at 16mm	0.364	0.514	0.275	0.228	0.74	0.87
	Back at 17mm	0.298	0.489	0.275	0.217	0.71	0.79
FR1 n66Ant 1	Front at 16mm	0.645	0.514	0.275	0.228	0.74	1.15
	Back at 17mm	0.902	0.489	0.275	0.217	0.71	1.39
FR1 n66Ant 2	Front at 16mm	0.451	0.514	0.275	0.228	0.74	0.95
	Back at 17mm	0.633	0.489	0.275	0.217	0.71	1.13
FR1 n7Ant 1	Front at 16mm	0.347	0.514	0.275	0.228	0.74	0.85
	Back at 17mm	0.324	0.489	0.275	0.217	0.71	0.82
FR1 n38Ant 1	Front at 16mm	0.342	0.514	0.275	0.228	0.74	0.85
	Back at 17mm	0.360	0.489	0.275	0.217	0.71	0.85
FR1 n38Ant 2	Front at 16mm	0.148	0.514	0.275	0.228	0.74	0.65
	Back at 17mm	0.155	0.489	0.275	0.217	0.71	0.65
FR1 n77 part 27OAnt 4	Front at 16mm	0.265	0.514	0.275	0.228	0.74	0.77
	Back at 17mm	0.270	0.489	0.275	0.217	0.71	0.76
FR1 n77 Part 27QAnt 4	Front at 16mm	0.263	0.514	0.275	0.228	0.74	0.77
	Back at 17mm	0.308	0.489	0.275	0.217	0.71	0.80



17.5 Product specific 10g SAR Exposure Conditions

Remark:

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	2	3	1+2 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)
		WWAN	5GHz WLAN Ant 6+7	WIFI 6E		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
GSM850Ant 1	Front		0.145	0.028	0.15	0.03
	Back	2.288	1.276	0.195	3.56	2.48
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side			0.006	0.00	0.01
GSM1900Ant 1	Front	1.500	0.145	0.028	1.65	1.53
	Back	1.828	1.276	0.195	3.10	2.02
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	2.385		0.006	2.39	2.39
WCDMA IIAnt 1	Front	2.490	0.145	0.028	2.64	2.52
	Back	2.326	1.276	0.195	3.60	2.52
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	2.490		0.006	2.49	2.50
WCDMA IVAnt 1	Front	2.507	0.145	0.028	2.65	2.54
	Back	2.603	1.276	0.195	3.88	2.80
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	2.224		0.006	2.22	2.23
WCDMA VAnt 1	Front		0.145	0.028	0.15	0.03
	Back	1.877	1.276	0.195	3.15	2.07
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side			0.006	0.00	0.01
LTE Band 2Ant 1	Front	2.550	0.145	0.028	2.70	2.58
	Back	2.468	1.276	0.195	3.74	2.66
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	2.399		0.006	2.40	2.41
LTE Band 7Ant 1	Front	2.412	0.145	0.028	2.56	2.44
	Back	2.638	1.276	0.195	3.91	2.83
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	2.248		0.006	2.25	2.25
LTE Band 66Ant 1	Front	2.599	0.145	0.028	2.74	2.63
	Back	2.544	1.276	0.195	3.82	2.74
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	2.334		0.006	2.33	2.34



LTE Band 41Ant 1	Front	2.101	0.145	0.028	2.25	2.13
	Back	2.361	1.276	0.195	3.64	2.56
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	1.980		0.006	1.98	1.99
LTE Band 66Ant 2	Front	1.739	0.145	0.028	1.88	1.77
	Back	2.596	1.276	0.195	3.87	2.79
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side	1.767	0.689	0.047	2.46	1.81
	Bottom side			0.006	0.00	0.01
LTE Band 7Ant 2	Front		0.145	0.028	0.15	0.03
	Back		1.276	0.195	1.28	0.20
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side	1.733	0.689	0.047	2.42	1.78
	Bottom side			0.006	0.00	0.01
LTE Band 42 part 27QAnt 4	Front	1.905	0.145	0.028	2.05	1.93
	Back	1.541	1.276	0.195	2.82	1.74
	Left side	2.178		0.010	2.18	2.19
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side			0.006	0.00	0.01
FR1 n66Ant 1	Front	1.085	0.145	0.028	1.23	1.11
	Back	1.344	1.276	0.195	2.62	1.54
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	1.970		0.006	1.97	1.98
FR1 n66Ant 2	Front		0.145	0.028	0.15	0.03
	Back	1.672	1.276	0.195	2.95	1.87
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side	2.173	0.689	0.047	2.86	2.22
	Bottom side			0.006	0.00	0.01
FR1 n7Ant 1	Front	1.913	0.145	0.028	2.06	1.94
	Back	2.240	1.276	0.195	3.52	2.44
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	2.133		0.006	2.13	2.14
FR1 n38Ant 1	Front	2.415	0.145	0.028	2.56	2.44
	Back	2.597	1.276	0.195	3.87	2.79
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side	1.359		0.006	1.36	1.37
FR1 n7Ant 2	Front		0.145	0.028	0.15	0.03
	Back	1.041	1.276	0.195	2.32	1.24
	Left side			0.010	0.00	0.01
	Right side		0.503	0.020	0.50	0.02
	Top side	1.172	0.689	0.047	1.86	1.22
	Bottom side			0.006	0.00	0.01
FR1 n77 part 27OAnt 4	Front	0.967	0.145	0.028	1.11	1.00
	Back	0.803	1.276	0.195	2.08	1.00



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	Left side	2.897		0.010	2.90	<b>2.91</b>
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side			0.006	0.00	0.01
FR1 n77 part 27QAnt 4	Front	1.419	0.145	0.028	1.56	1.45
	Back		1.276	0.195	1.28	0.20
	Left side	2.865		0.010	2.87	2.88
	Right side		0.503	0.020	0.50	0.02
	Top side		0.689	0.047	0.69	0.05
	Bottom side			0.006	0.00	0.01



## **18. Supplemental tuner tests results**

### **General Note:**

1. This device impedance tuner (216 status) antenna tuning techniques in the GSM850/GSM1900,WCDMA II/IV/V, LTE Band 2/4/5/7/12/13/17/26/38/41/66, 5GNR n5/n7/38/n66 for ANT1.
2. LTE B4 / B5 / B17 / B38 SAR test was covered by LTE B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
4. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
5. To evaluate all of the tuner states, the 216 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
6. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
7. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).

### **18.1 Supplemental Tuner Head & Body SAR Results**

Please refer to Appendix F.

**Test Engineer** : Nick Hu, Seven Xu, Bruce Li

## **19. Uncertainty Assessment**

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

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture’s specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

<b>Uncertainty Distributions</b>	<b>Normal</b>	<b>Rectangular</b>	<b>Triangular</b>	<b>U-Shape</b>
Multi-plying Factor <sup>(a)</sup>	1/k <sup>(b)</sup>	1/√3	1/√6	1/√2

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b)  $\kappa$  is the coverage factor

### **Standard Uncertainty for Assumed Distribution**

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual “root-sum-squares” (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

DASY6 Uncertainty Budget (Frequency band: 4 MHz 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
<b>Measurement System</b>							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Probe Calibration Drift	1.00	N	1	1	1	1.0	1.0
Probe Linearity	4.70	R	1.732	1	1	2.7	2.7
Broadband Signal	3.00	N	1	1	1	3.0	3.0
Probe Isotropy	7.60	R	2	1	1	3.8	3.8
Data Acquisition	0.30	N	1.732	1	1	0.2	0.2
RF Ambient	1.80	N	1	1	1	1.8	1.8
Probe Positioning	0.20	N	1	0.33	0.33	0.1	0.1
Data Processing	3.50	N	1	1	1	3.5	3.5
<b>Phantom and Device Errors</b>							
Conductivity (meas.) DAK	2.50	N	1	0.78	0.71	2.0	1.8
Conductivity (temp.) BB	5.40	R	1.732	0.78	0.71	2.4	2.2
Phantom Permittivity	14.00	R	1.732	0.5	0.5	4.0	4.0
Distance DUT TSL	2.00	N	1	2	2	4.0	4.0
Device Holder	3.60	N	1	1	1	3.6	3.6
DUT Modulationm	2.40	R	1.732	1	1	1.4	1.4
Time-average SAR	2.60	R	1.732	1	1	1.5	1.5
DUT drift	5.00	N	1	1	1	5.0	5.0
<b>Correction to the SAR results</b>							
Deviation to Target	1.90	N	1	1	0.84	1.9	1.6
SAR scalingp	0.00	R	1.732	1	1	0.0	0.0
<b>Combined Std. Uncertainty</b>						14.9%	14.8%
<b>Coverage Factor for 95 %</b>						K=2	K=2
<b>Expanded STD Uncertainty</b>						29.8%	29.6%

SAR Uncertainty Budget for frequency range 4MHz to 10GHz

## **20. References**

- [1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
- [7] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015
- [8] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015
- [11] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015
- [12] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015
- [13] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015
- [14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [15] IEC/IEEE 62209-1528:2020, “Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)”, Oct. 2020

-----THE END-----



## **Appendix A. Plots of System Performance Check**

The plots are shown as follows.

### System Check\_Head\_750MHz

**DUT: D750V3 - SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.907 \text{ S/m}$ ;  $\epsilon_r = 42.764$ ;  $\rho = 1000 \text{ kg/m}^3$

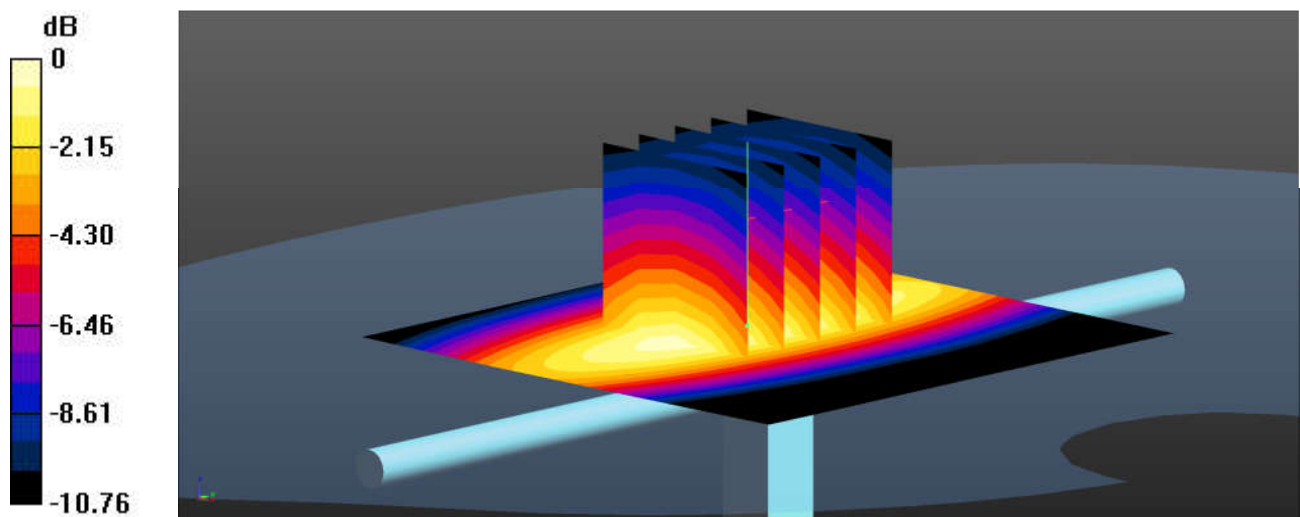
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.549 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 23.71 V/m; Power Drift = 0.13 dB  
Peak SAR (extrapolated) = 0.636 W/kg  
**SAR(1 g) = 0.415 W/kg; SAR(10 g) = 0.272 W/kg**  
Maximum value of SAR (measured) = 0.559 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg



### System Check\_Head\_835MHz

**DUT: D835V2 - SN:4d258**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: HSL\_835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.935 \text{ S/m}$ ;  $\epsilon_r = 42.541$ ;  $\rho = 1000 \text{ kg/m}^3$

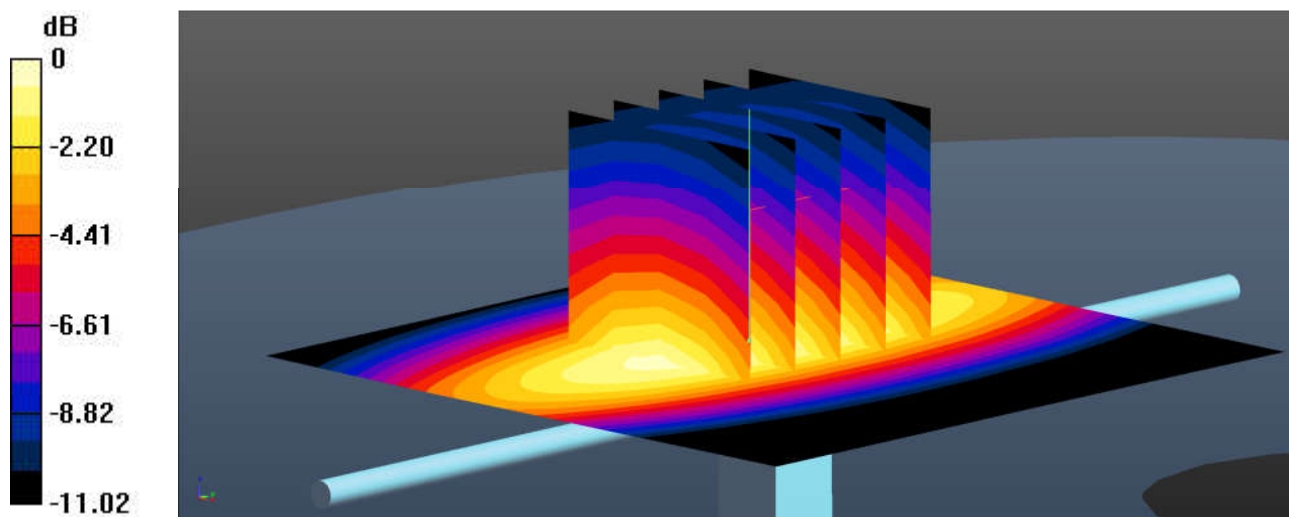
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.706 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 26.28 V/m; Power Drift = 0.16 dB  
Peak SAR (extrapolated) = 0.812 W/kg  
**SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.322 W/kg**  
Maximum value of SAR (measured) = 0.716 W/kg



0 dB = 0.716 W/kg = -1.45 dBW/kg

### System Check\_Head\_1750MHz

**DUT: D1750V2 - SN:1090**

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

Medium: HSL\_1750 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.359$  S/m;  $\epsilon_r = 40.936$ ;  $\rho = 1000$  kg/m<sup>3</sup>

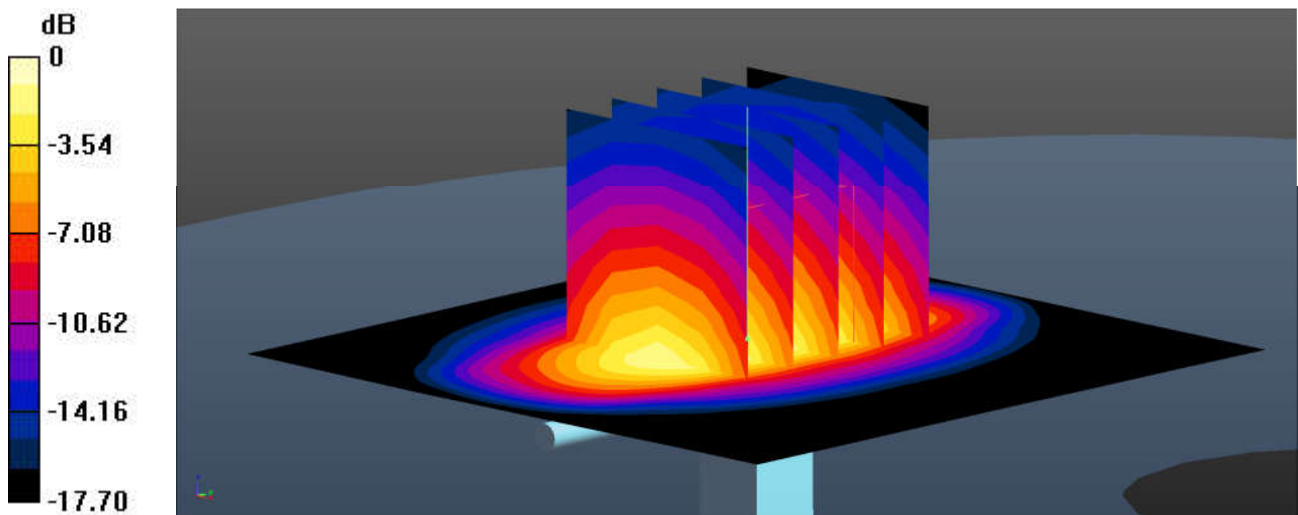
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.93 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 42.10 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 3.58 W/kg  
**SAR(1 g) = 1.91 W/kg; SAR(10 g) = 1.01 W/kg**  
Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.73 dBW/kg

### System Check\_Head\_1900MHz

**DUT: D1900V2 - SN:5d170**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.456$  S/m;  $\epsilon_r = 40.683$ ;  $\rho = 1000$  kg/m<sup>3</sup>

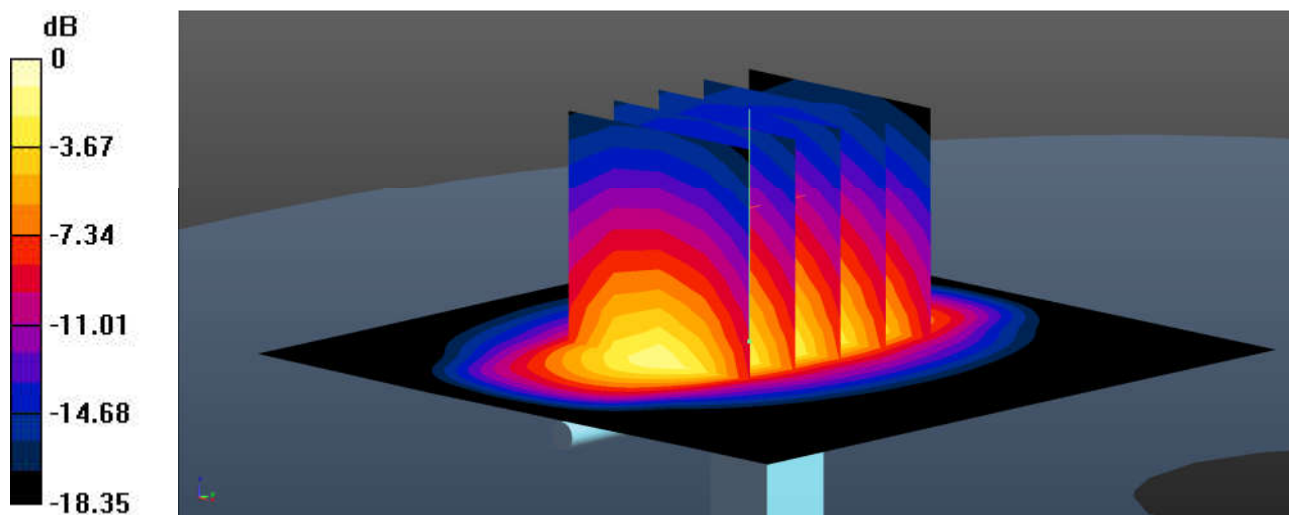
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 3.24 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 42.05 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 3.95 W/kg  
**SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.09 W/kg**  
Maximum value of SAR (measured) = 3.31 W/kg



0 dB = 3.31 W/kg = 5.20 dBW/kg

### System Check\_Head\_2450MHz

**DUT: D2450V2 - SN:908**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: HSL\_2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.871$  S/m;  $\epsilon_r = 40.83$ ;  $\rho = 1000$  kg/m<sup>3</sup>

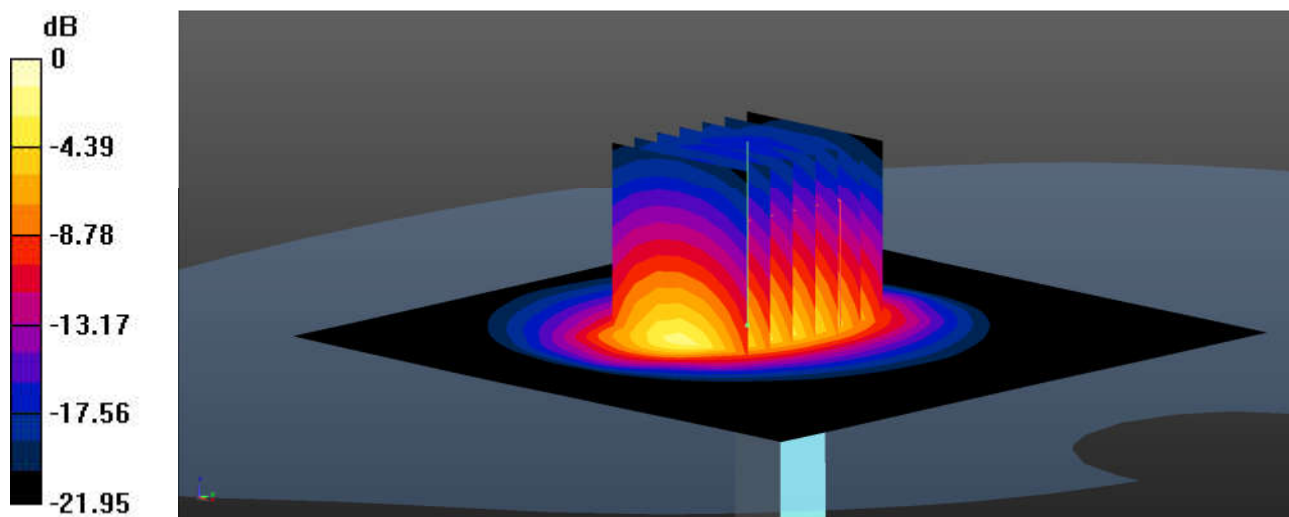
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.14, 8.14, 8.14); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 4.61 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 37.77 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 5.60 W/kg  
**SAR(1 g) = 2.71 W/kg; SAR(10 g) = 1.27 W/kg**  
Maximum value of SAR (measured) = 4.55 W/kg



0 dB = 4.55 W/kg = 6.58 dBW/kg

### System Check\_Head\_2600MHz

**DUT: D2600V2 - SN:1061**

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

Medium: HSL\_2600 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.979$  S/m;  $\epsilon_r = 40.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

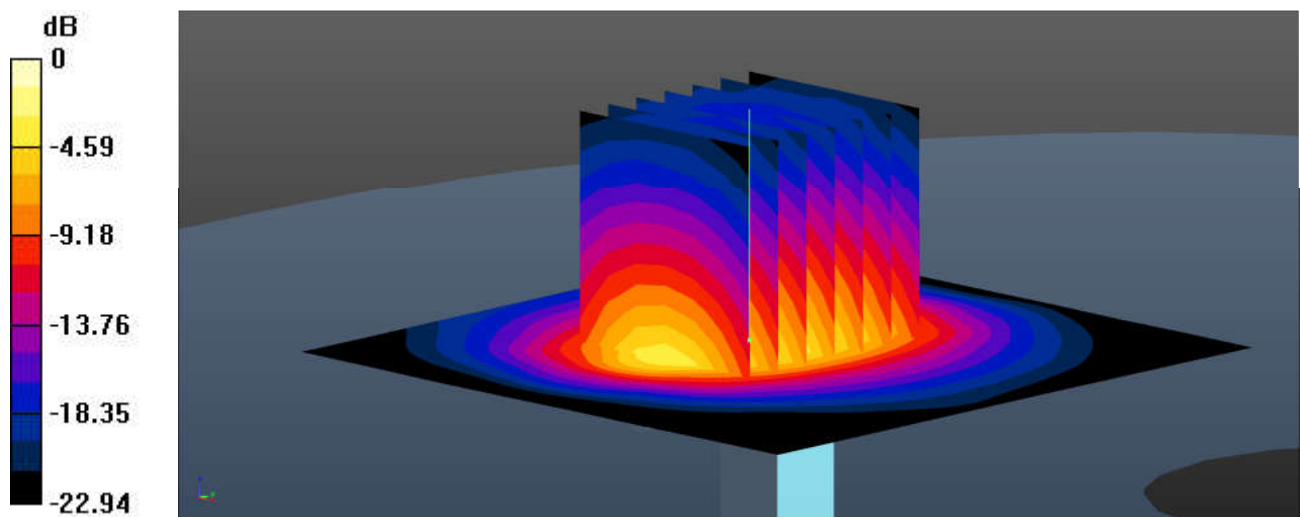
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 4.98 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 42.13 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 6.06 W/kg  
**SAR(1 g) = 2.93 W/kg; SAR(10 g) = 1.27 W/kg**  
Maximum value of SAR (measured) = 4.85 W/kg



0 dB = 4.85 W/kg = 6.86 dBW/kg

### System Check\_Head\_3500MHz

**DUT: D3500V2 - SN:1037**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: HSL\_3500 Medium parameters used:  $f = 3500$  MHz;  $\sigma = 2.796$  S/m;  $\epsilon_r = 38.957$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.19, 7.19, 7.19); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 6.71 W/kg

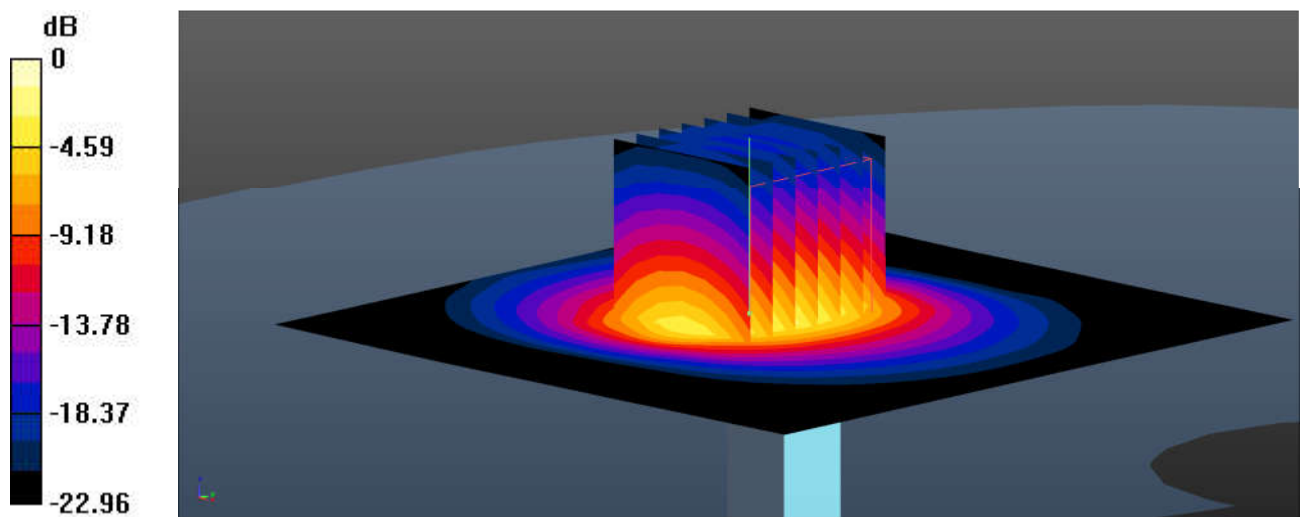
**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 40.95 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 8.70 W/kg

**SAR(1 g) = 3.42 W/kg; SAR(10 g) = 1.31 W/kg**

Maximum value of SAR (measured) = 6.58 W/kg



0 dB = 6.58 W/kg = 8.18 dBW/kg

### System Check\_Head\_3700MHz

**DUT: D3700V2 - SN:1008**

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: HSL\_3700 Medium parameters used:  $f = 3700$  MHz;  $\sigma = 2.982$  S/m;  $\epsilon_r = 38.644$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.13, 7.13, 7.13); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 7.34 W/kg

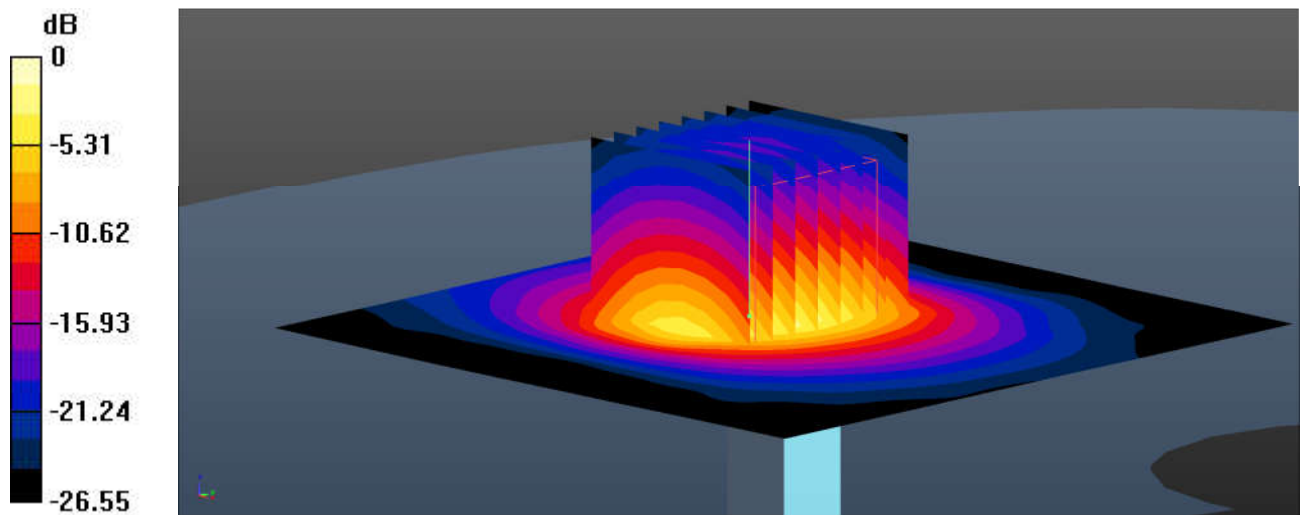
**Pin=50mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 40.74 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 9.67 W/kg

**SAR(1 g) = 3.63 W/kg; SAR(10 g) = 1.15 W/kg**

Maximum value of SAR (measured) = 7.19 W/kg



0 dB = 7.19 W/kg = 8.57 dBW/kg



### System Check\_Head\_3900MHz

**DUT: D3900V2 - SN:1048**

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1  
Medium: HSL\_3900 Medium parameters used:  $f = 3900$  MHz;  $\sigma = 3.18$  S/m;  $\epsilon_r = 38.356$ ;  $\rho = 1000$  kg/m<sup>3</sup>

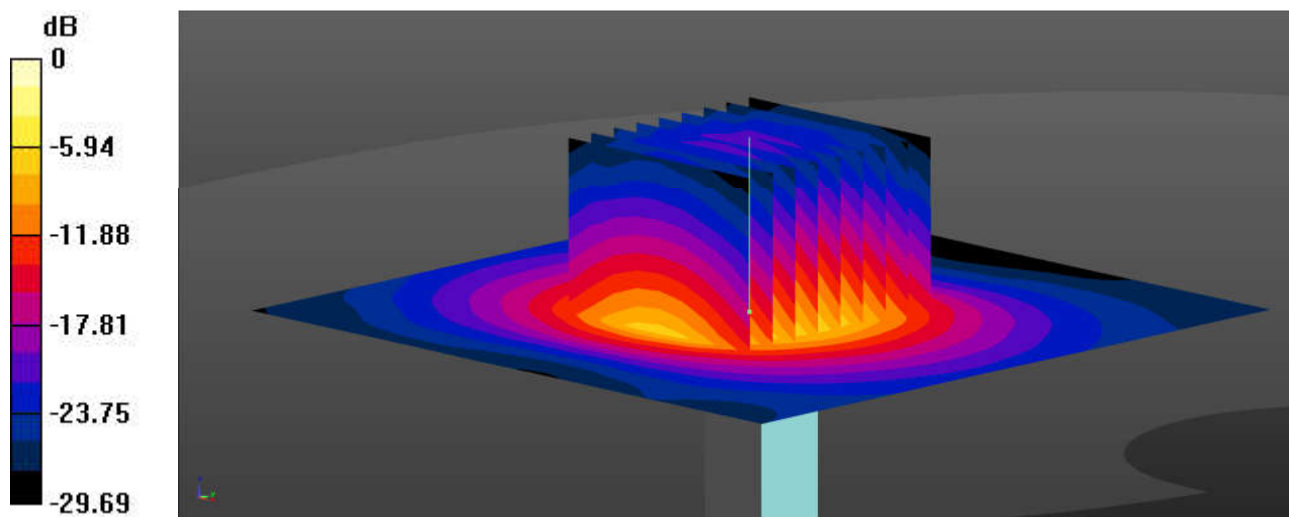
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(6.99, 6.99, 6.99); Calibrated: 2021.4.29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2021.4.26
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 7.21 W/kg

**Pin=50mW/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 47.86 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 10.7 W/kg  
**SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.21 W/kg**  
Maximum value of SAR (measured) = 7.32 W/kg



0 dB = 7.32 W/kg = 8.65 dBW/kg

### System Check\_Head\_5250MHz

#### DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1  
Medium: HSL\_5250 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.601$  S/m;  $\epsilon_r = 36.253$ ;  $\rho = 1000$  kg/m<sup>3</sup>

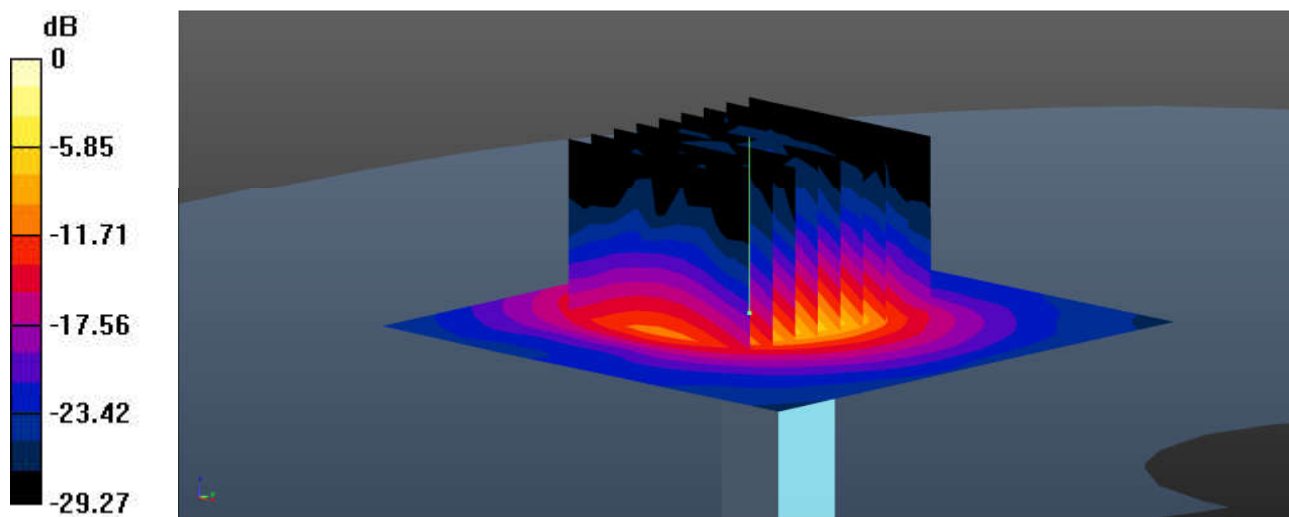
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.55, 5.55, 5.55); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 10.5 W/kg

**Pin=50mW/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 38.78 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 16.5 W/kg  
**SAR(1 g) = 4.25 W/kg; SAR(10 g) = 1.23 W/kg**  
Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 10.6 W/kg = 10.25 dBW/kg

### System Check\_Head\_5600MHz

#### DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.704$ ;  $\rho = 1000$  kg/m<sup>3</sup>

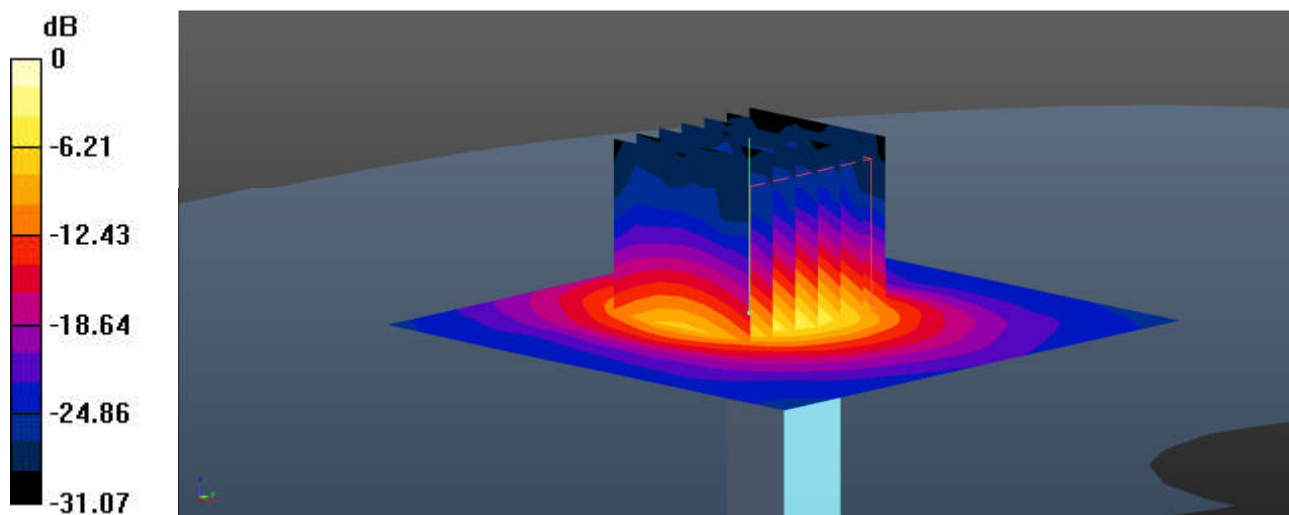
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(4.85, 4.85, 4.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 11.7 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 38.81 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 19.6 W/kg  
**SAR(1 g) = 4.25 W/kg; SAR(10 g) = 1.21 W/kg**  
Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

### System Check\_Head\_5750MHz

#### DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.146$  S/m;  $\epsilon_r = 35.523$ ;  $\rho = 1000$  kg/m<sup>3</sup>

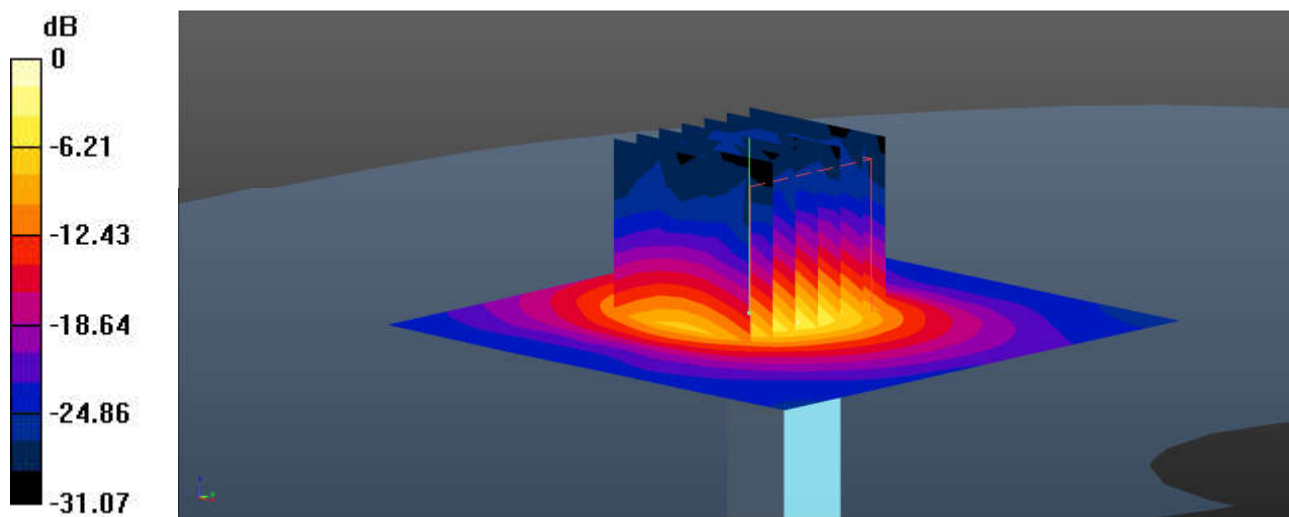
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.07, 5.07, 5.07); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 10.4 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 36.43 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 17.7 W/kg  
**SAR(1 g) = 4 W/kg; SAR(10 g) = 1.15 W/kg**  
Maximum value of SAR (measured) = 10.5 W/kg



0 dB = 10.5 W/kg = 10.21 dBW/kg

### System Check\_Head\_750MHz

**DUT: D750V3 - SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.906 \text{ S/m}$ ;  $\epsilon_r = 42.756$ ;  $\rho = 1000 \text{ kg/m}^3$

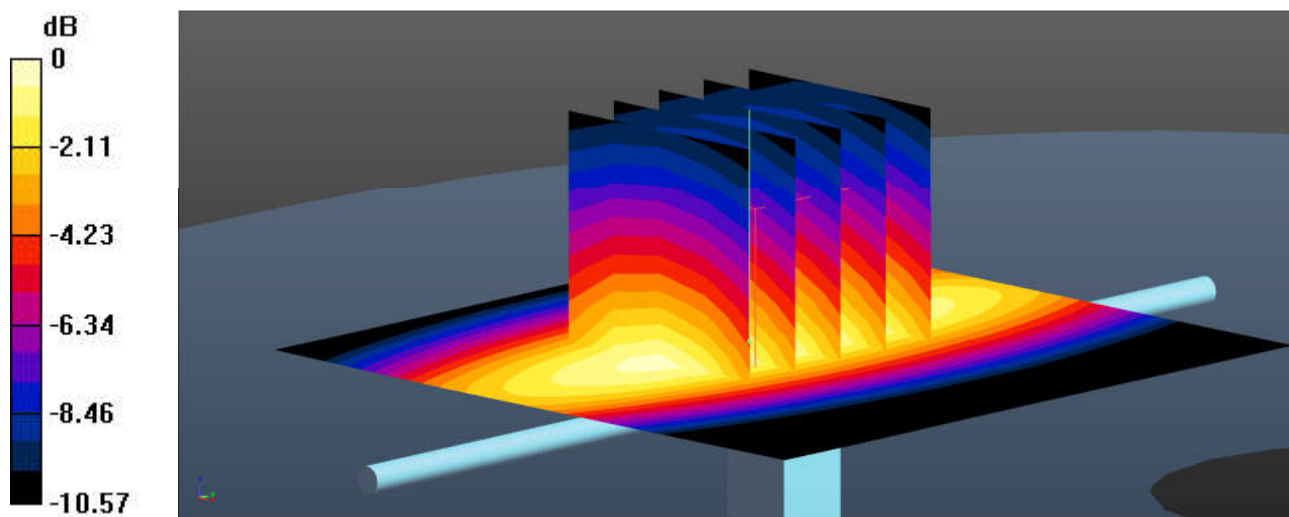
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.545 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 24.28 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.632 W/kg  
**SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.272 W/kg**  
Maximum value of SAR (measured) = 0.557 W/kg



0 dB = 0.557 W/kg = -2.54 dBW/kg

### System Check\_Head\_835MHz

**DUT: D835V2 - SN:4d258**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: HSL\_835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.935 \text{ S/m}$ ;  $\epsilon_r = 42.526$ ;  $\rho = 1000 \text{ kg/m}^3$

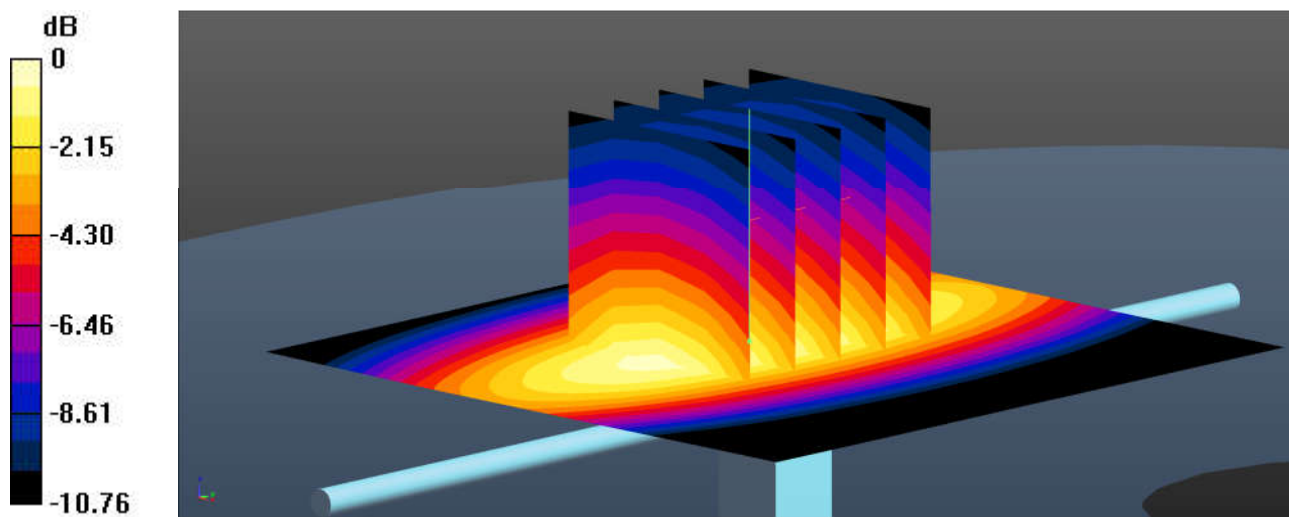
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.608 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 24.20 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.794 W/kg  
**SAR(1 g) = 0.504 W/kg; SAR(10 g) = 0.322 W/kg**  
Maximum value of SAR (measured) = 0.615 W/kg



0 dB = 0.615 W/kg = -2.11 dBW/kg

### System Check\_Head\_1750MHz

**DUT: D1750V2 - SN:1090**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.359$  S/m;  $\epsilon_r = 40.945$ ;  $\rho = 1000$  kg/m<sup>3</sup>

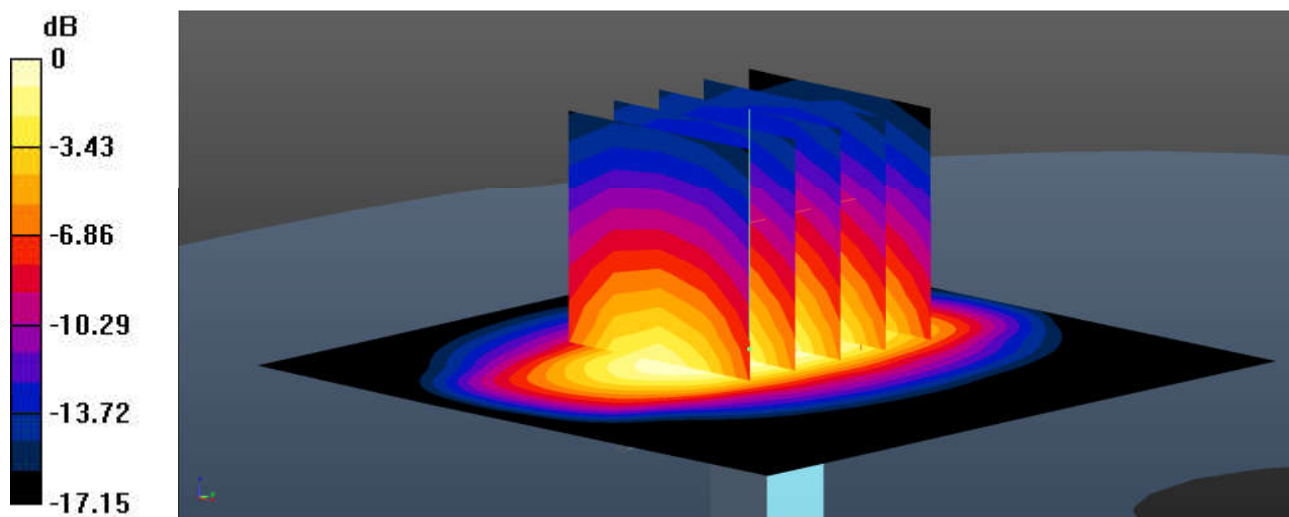
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.73 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 35.19 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 3.42 W/kg  
**SAR(1 g) = 1.88 W/kg; SAR(10 g) = 0.998 W/kg**  
Maximum value of SAR (measured) = 2.36 W/kg



0 dB = 2.36 W/kg = 3.73 dBW/kg



### System Check\_Head\_1900MHz

**DUT: D1900V2 - SN:5d170**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.456$  S/m;  $\epsilon_r = 40.692$ ;  $\rho = 1000$  kg/m<sup>3</sup>

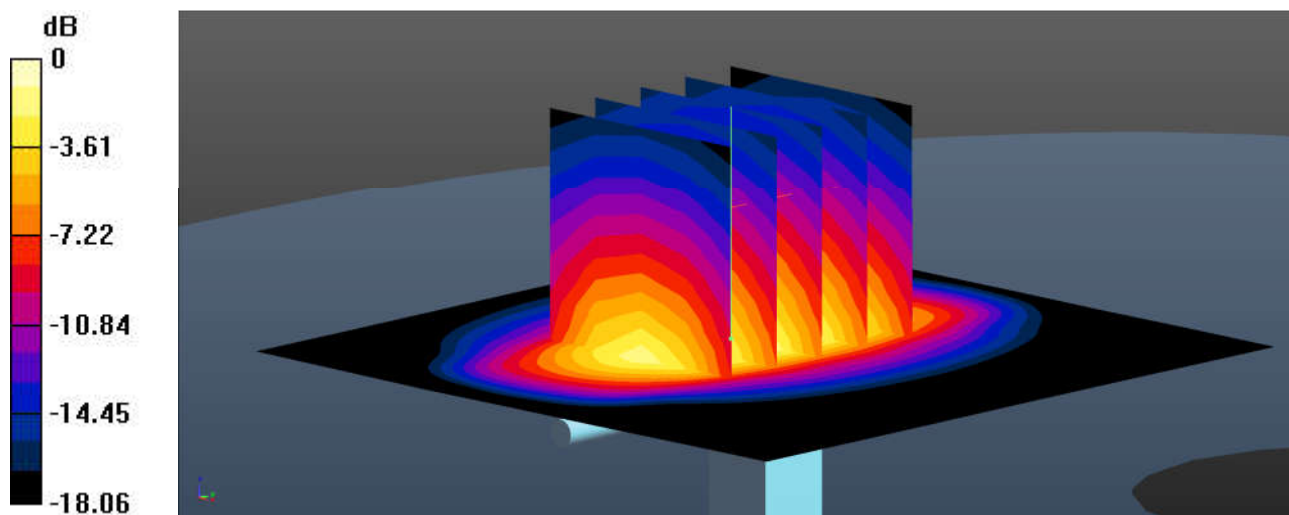
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 3.24 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 40.61 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 3.92 W/kg  
**SAR(1 g) = 2.1 W/kg; SAR(10 g) = 1.09 W/kg**  
Maximum value of SAR (measured) = 3.30 W/kg



0 dB = 3.30 W/kg = 5.19 dBW/kg

### System Check\_Head\_2450MHz

**DUT: D2450V2 - SN:908**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: HSL\_2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.824$  S/m;  $\epsilon_r = 39.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

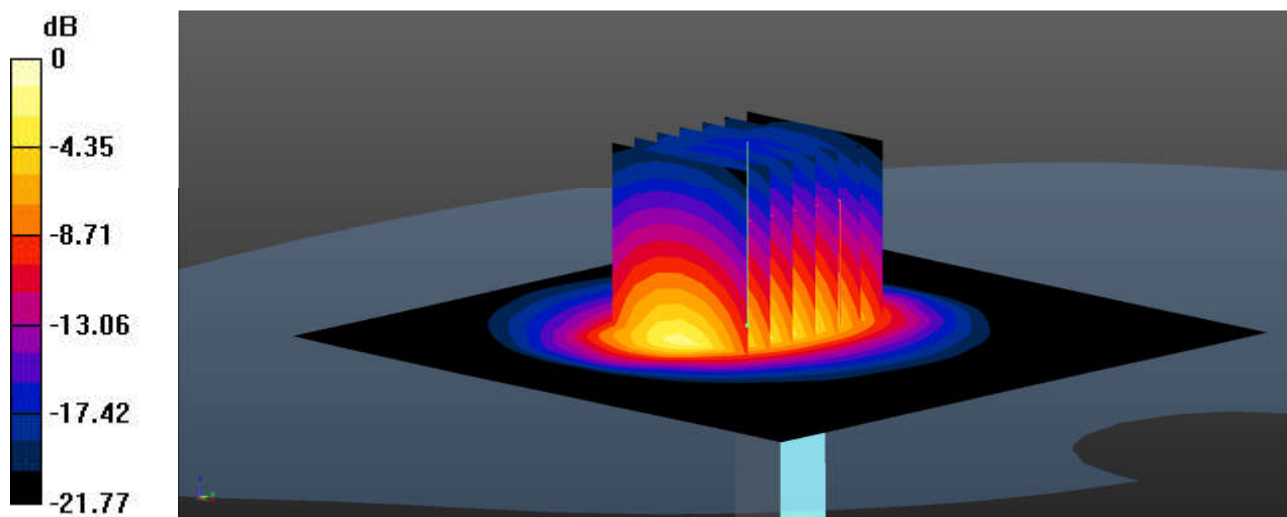
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.14, 8.14, 8.14); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 4.51 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 37.90 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 5.47 W/kg  
**SAR(1 g) = 2.64 W/kg; SAR(10 g) = 1.23 W/kg**  
Maximum value of SAR (measured) = 4.45 W/kg



0 dB = 4.45 W/kg = 6.48 dBW/kg

### System Check\_Head\_2600MHz

**DUT: D2600V2 - SN:1061**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1  
Medium: HSL\_2600 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.93$  S/m;  $\epsilon_r = 39.035$ ;  $\rho = 1000$  kg/m<sup>3</sup>

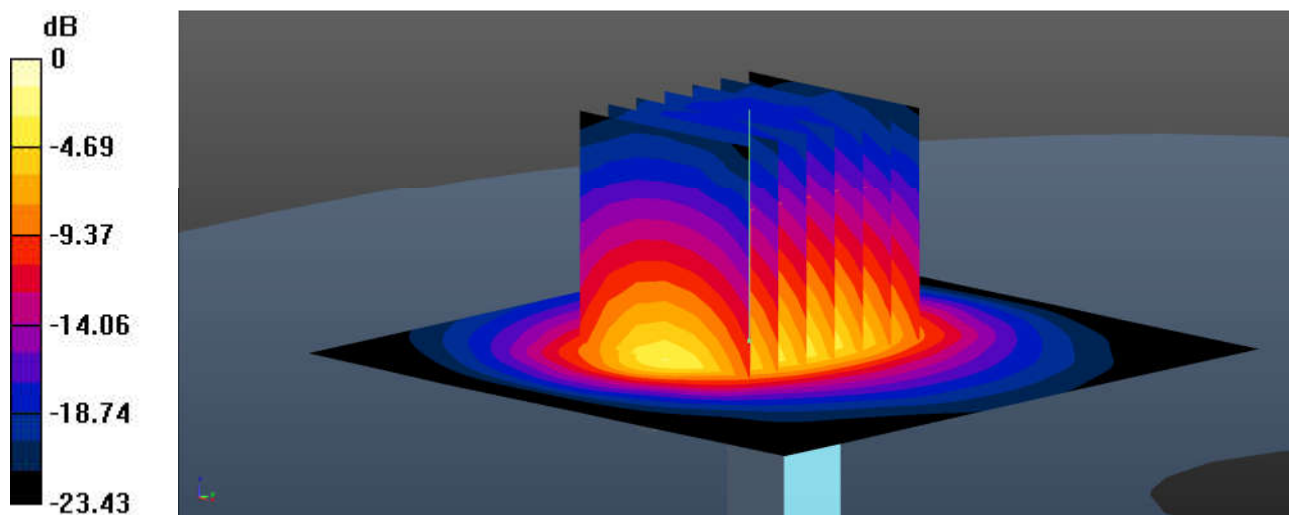
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 4.88 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 42.04 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 5.93 W/kg  
**SAR(1 g) = 2.96 W/kg; SAR(10 g) = 1.24 W/kg**  
Maximum value of SAR (measured) = 4.75 W/kg



0 dB = 4.75 W/kg = 6.77 dBW/kg

### System Check\_Head\_3500MHz

**DUT: D3500V2 - SN:1037**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1  
Medium: HSL\_3500 Medium parameters used:  $f = 3500$  MHz;  $\sigma = 2.808$  S/m;  $\epsilon_r = 39.002$ ;  $\rho = 1000$  kg/m<sup>3</sup>

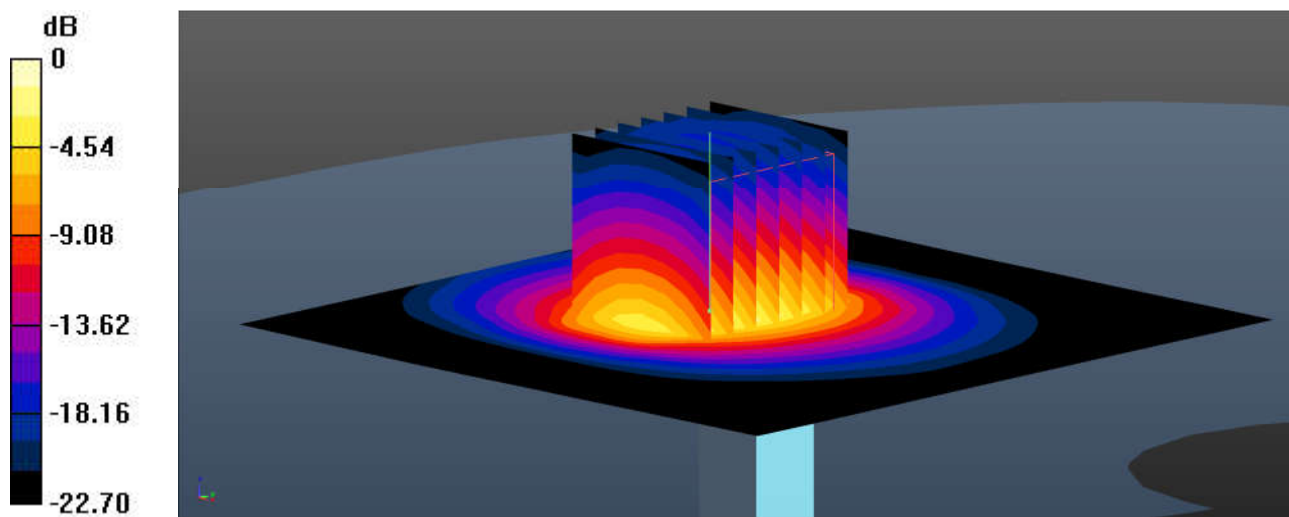
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.19, 7.19, 7.19); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 6.59 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 35.14 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 8.63 W/kg  
**SAR(1 g) = 3.37 W/kg; SAR(10 g) = 1.3 W/kg**  
Maximum value of SAR (measured) = 6.50 W/kg



0 dB = 6.50 W/kg = 8.13 dBW/kg

### System Check\_Head\_3700MHz

**DUT: D3700V2 - SN:1008**

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1  
Medium: HSL\_3700 Medium parameters used:  $f = 3700$  MHz;  $\sigma = 2.994$  S/m;  $\epsilon_r = 38.681$ ;  $\rho = 1000$  kg/m<sup>3</sup>

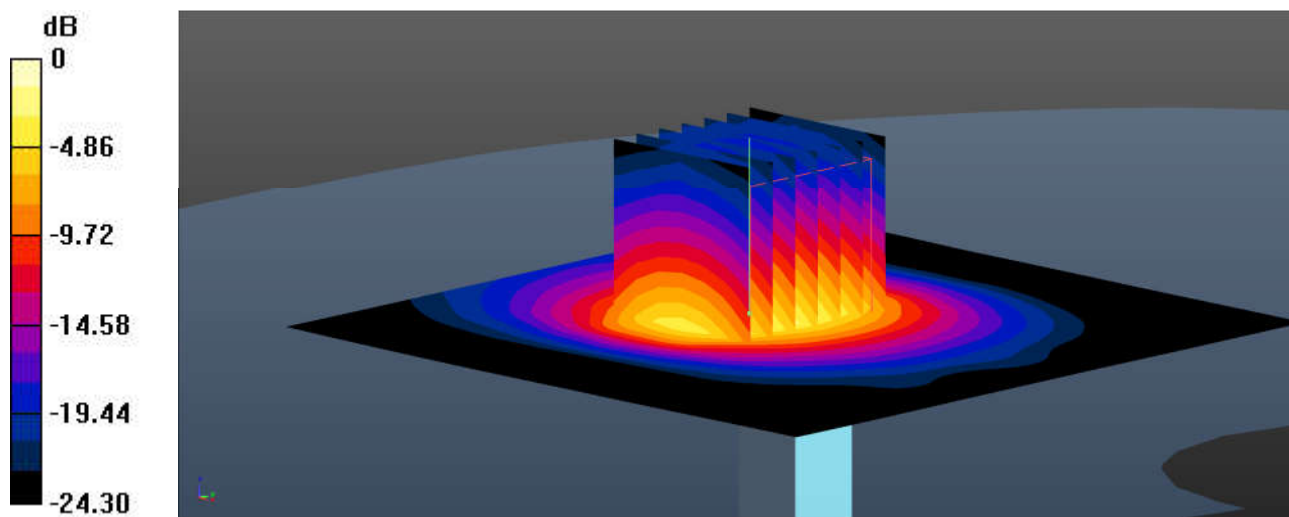
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.13, 7.13, 7s.13); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 7.27 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 34.47 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 9.83 W/kg  
**SAR(1 g) = 3.62 W/kg; SAR(10 g) = 1.15 W/kg**  
Maximum value of SAR (measured) = 7.23 W/kg



0 dB = 7.23 W/kg = 8.59 dBW/kg

### System Check\_Head\_3900MHz

**DUT: D3900V2 - SN:1048**

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1  
Medium: HSL\_3900 Medium parameters used:  $f = 3900$  MHz;  $\sigma = 3.194$  S/m;  $\epsilon_r = 38.385$ ;  $\rho = 1000$  kg/m<sup>3</sup>

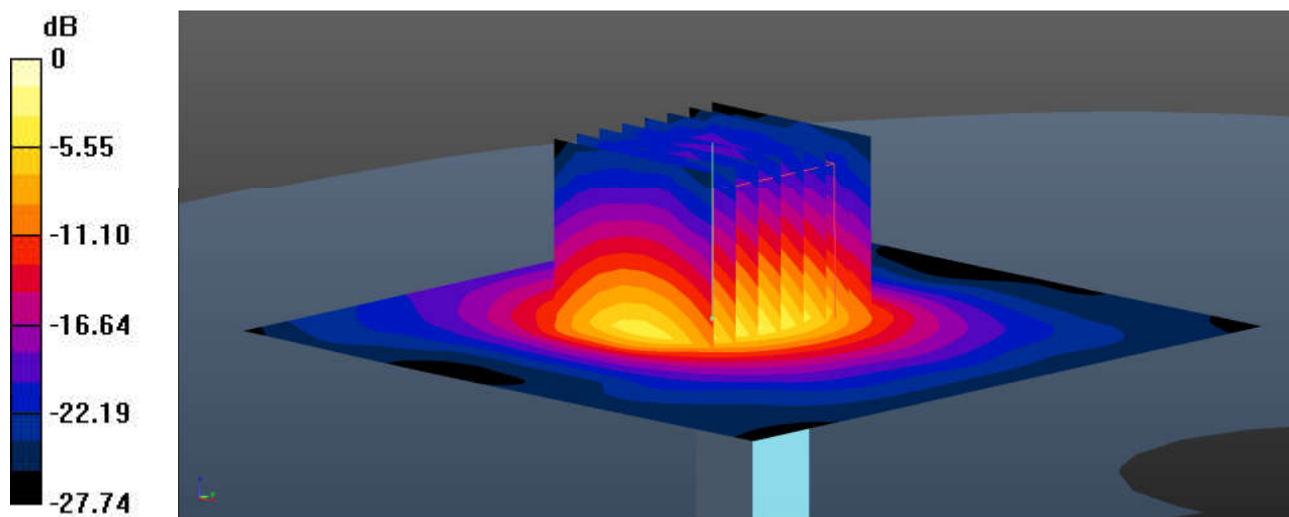
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(6.99, 6.99, 6.99); Calibrated: 2021.4.29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2021.4.26
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 6.69 W/kg

**Pin=50mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 34.27 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 8.80 W/kg  
**SAR(1 g) = 3.79 W/kg; SAR(10 g) = 1.18 W/kg**  
Maximum value of SAR (measured) = 6.65 W/kg



0 dB = 6.65 W/kg = 8.23 dBW/kg

### System Check\_Head\_5250MHz

#### DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1  
Medium: HSL\_5250 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.593$  S/m;  $\epsilon_r = 36.28$ ;  $\rho = 1000$  kg/m<sup>3</sup>

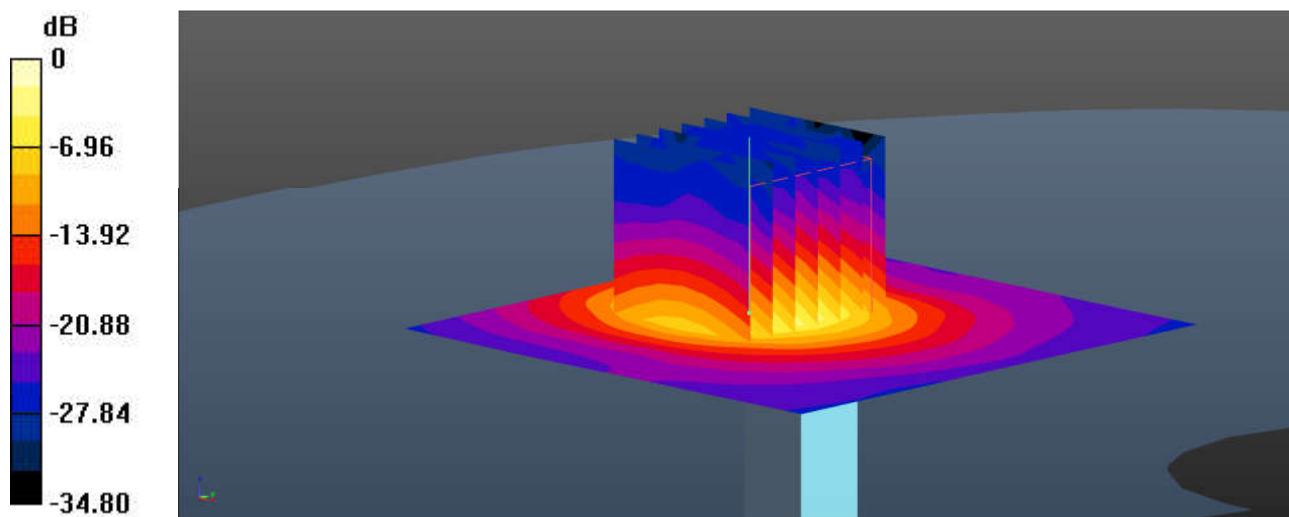
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.55, 5.55, 5.55); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 9.76 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 29.65 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 16.0 W/kg  
**SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.15 W/kg**  
Maximum value of SAR (measured) = 10.1 W/kg



0 dB = 10.1 W/kg = 10.04 dBW/kg



### System Check\_Head\_5600MHz

#### DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.973$  S/m;  $\epsilon_r = 35.704$ ;  $\rho = 1000$  kg/m<sup>3</sup>

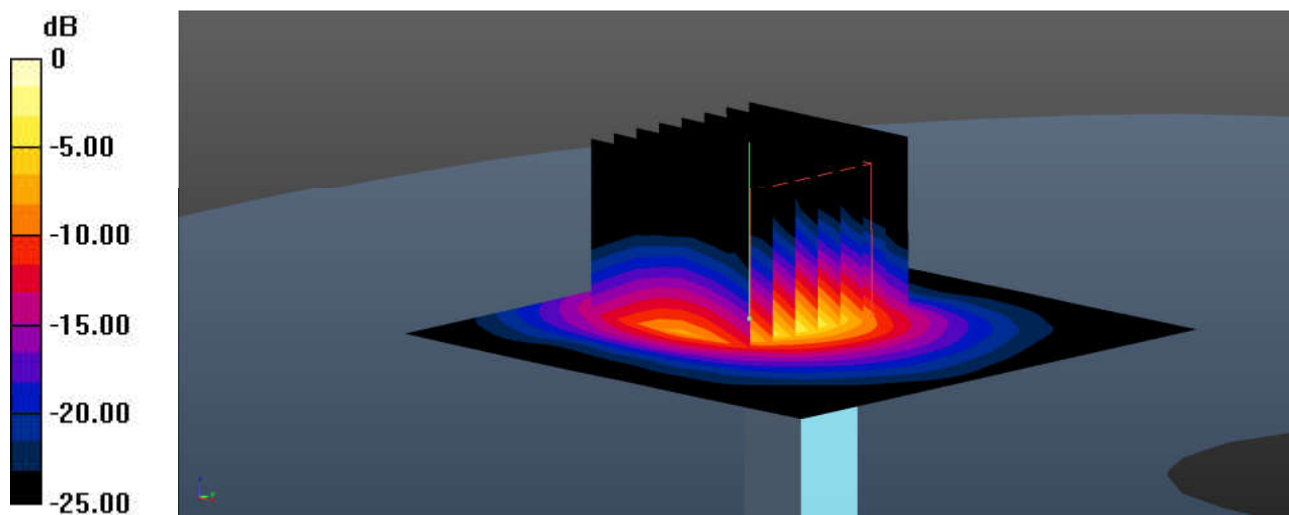
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(4.85, 4.85, 4.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 10.9 W/kg

**Pin=50mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 29.75 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 18.8 W/kg  
**SAR(1 g) = 4.27 W/kg; SAR(10 g) = 1.21 W/kg**  
Maximum value of SAR (measured) = 11.2 W/kg



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

### System Check\_Head\_5750MHz

#### DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.146$  S/m;  $\epsilon_r = 35.536$ ;  $\rho = 1000$  kg/m<sup>3</sup>

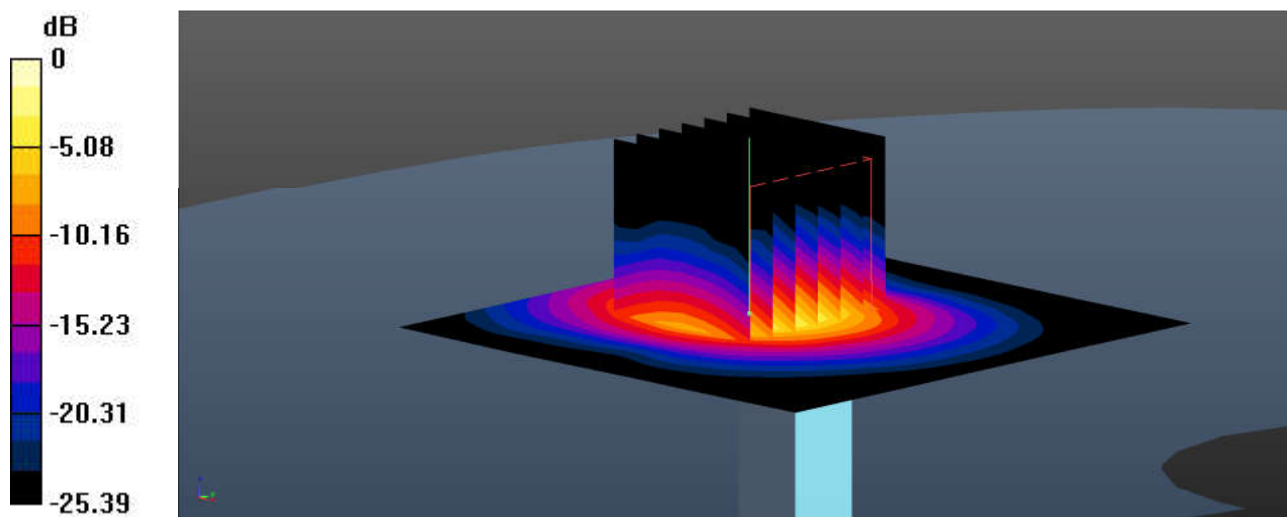
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.07, 5.07, 5.07); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 9.52 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 30.44 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 17.9 W/kg  
**SAR(1 g) = 3.84 W/kg; SAR(10 g) = 1.1 W/kg**  
Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.2 W/kg = 10.09 dBW/kg

### System Check\_Head\_750MHz

**DUT: D750V3 - SN:1087**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.908 \text{ S/m}$ ;  $\epsilon_r = 42.689$ ;  $\rho = 1000 \text{ kg/m}^3$

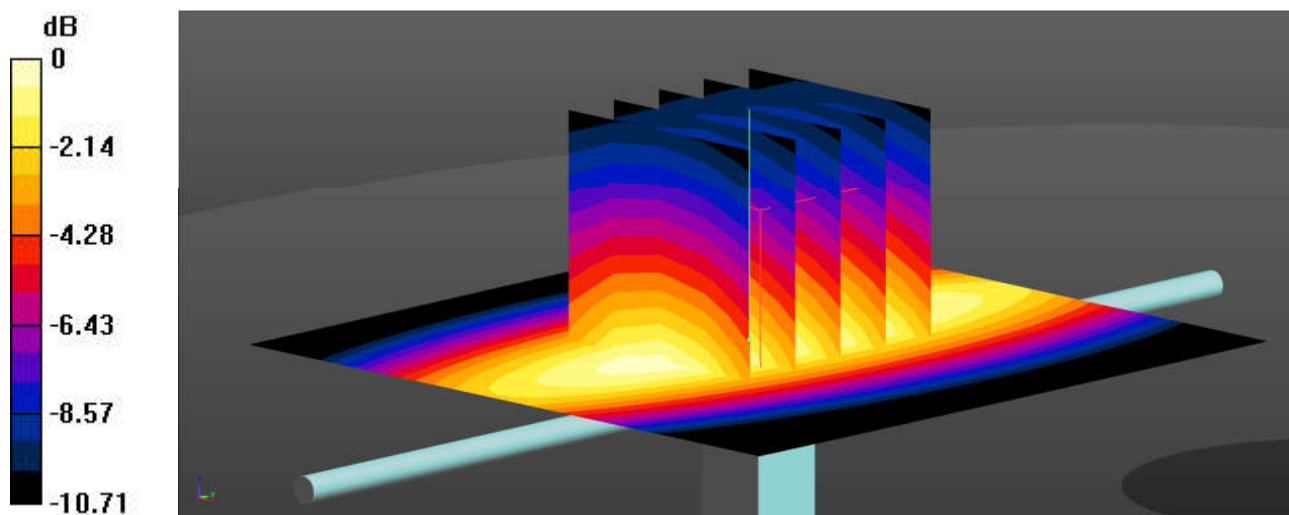
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.543 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 25.49 V/m; Power Drift = -0.08 dB  
Peak SAR (extrapolated) = 0.602 W/kg  
**SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.268 W/kg**  
Maximum value of SAR (measured) = 0.530 W/kg



0 dB = 0.530 W/kg = -2.76 dBW/kg

### System Check\_Head\_835MHz

**DUT: D835V2 - SN:4d258**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: HSL\_835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.938 \text{ S/m}$ ;  $\epsilon_r = 42.456$ ;  $\rho = 1000 \text{ kg/m}^3$

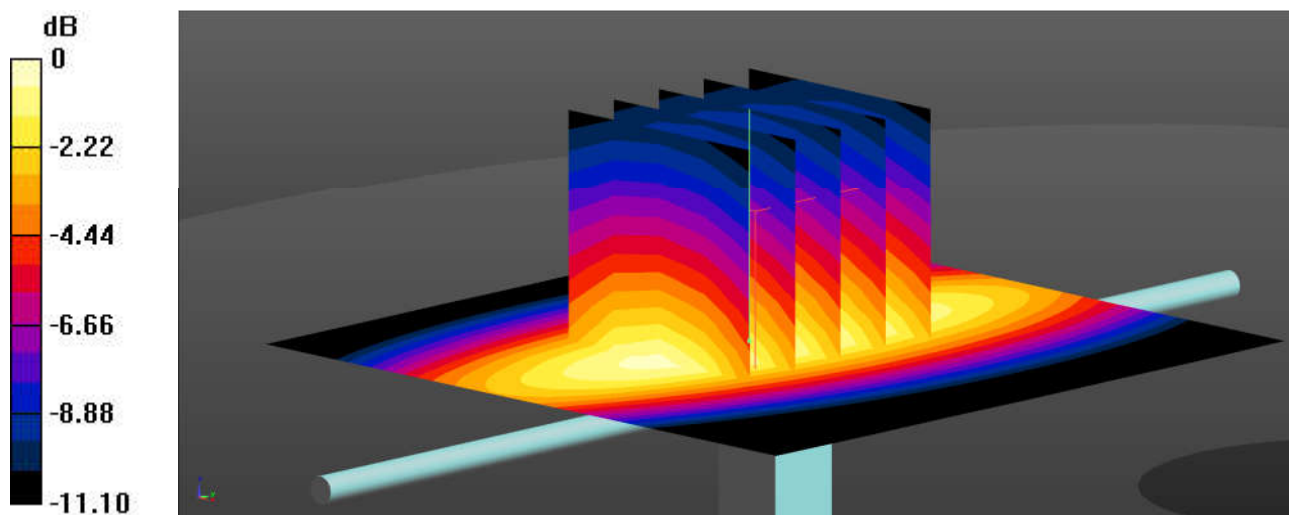
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.650 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 27.21 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.749 W/kg  
**SAR(1 g) = 0.485 W/kg; SAR(10 g) = 0.314 W/kg**  
Maximum value of SAR (measured) = 0.659 W/kg



0 dB = 0.659 W/kg = -1.81 dBW/kg

### System Check\_Head\_1750MHz

**DUT: D1750V2 - SN:1090**

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

Medium: HSL\_1750 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.358$  S/m;  $\epsilon_r = 40.941$ ;  $\rho = 1000$  kg/m<sup>3</sup>

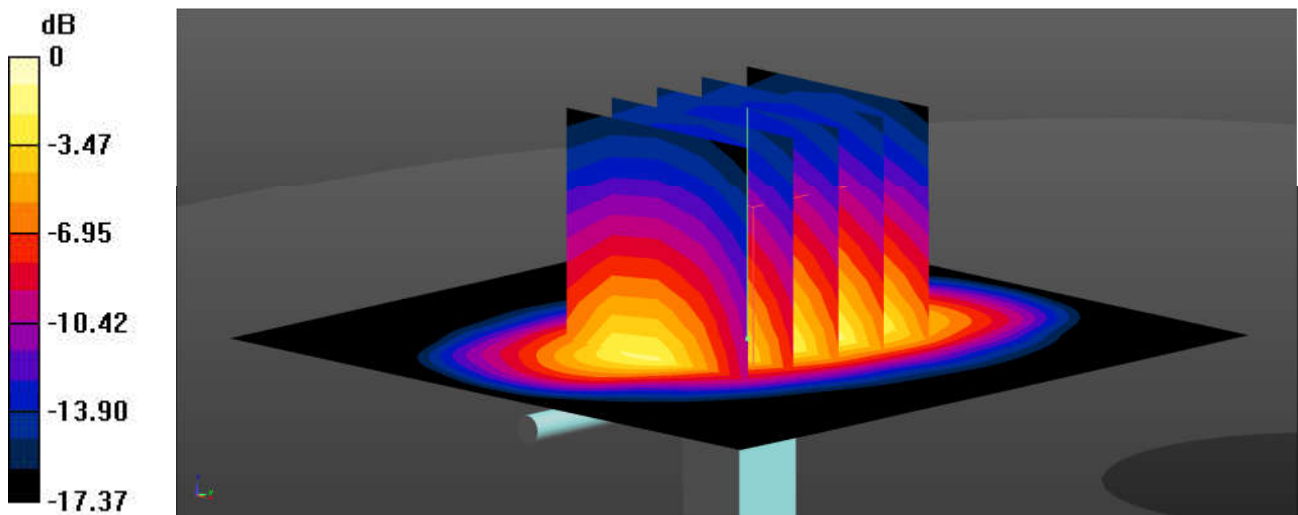
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.82 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 47.22 V/m; Power Drift = -0.09 dB  
Peak SAR (extrapolated) = 3.37 W/kg  
**SAR(1 g) = 1.83 W/kg; SAR(10 g) = 0.970 W/kg**  
Maximum value of SAR (measured) = 2.84 W/kg



0 dB = 2.84 W/kg = 4.53 dBW/kg

### System Check\_Head\_1900MHz

**DUT: D1900V2 - SN:5d170**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.457$  S/m;  $\epsilon_r = 40.691$ ;  $\rho = 1000$  kg/m<sup>3</sup>

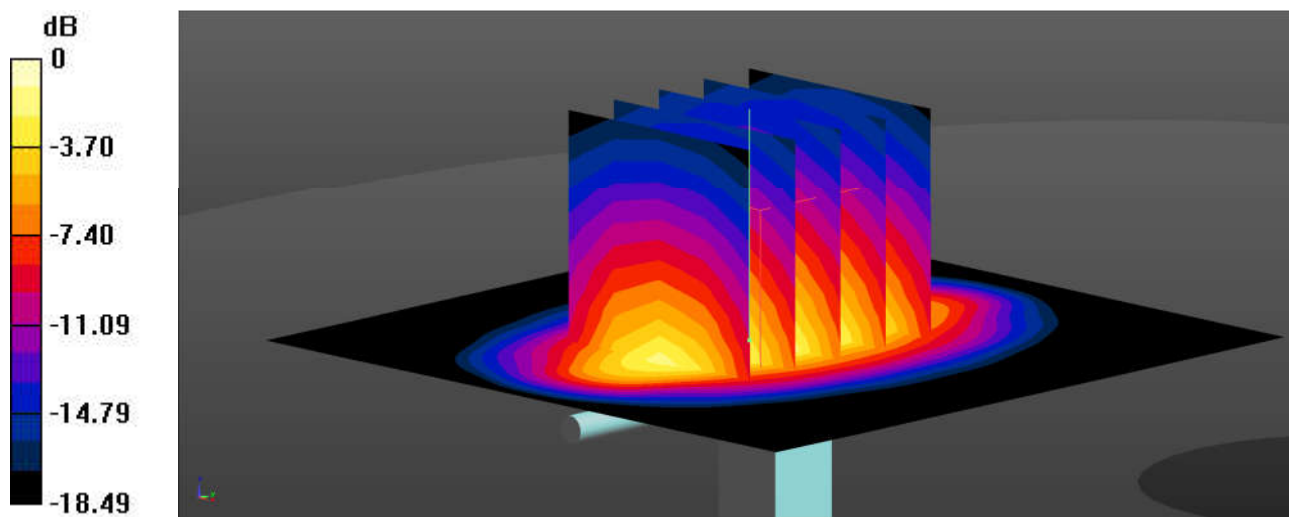
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.65 W/kg

**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 43.52 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 3.23 W/kg  
**SAR(1 g) = 1.88 W/kg; SAR(10 g) = 0.960 W/kg**  
Maximum value of SAR (measured) = 2.67 W/kg



0 dB = 2.67 W/kg = 4.27 dBW/kg

### System Check\_Head\_2450MHz

**DUT: D2450V2 - SN:908**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: HSL\_2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.872$  S/m;  $\epsilon_r = 40.823$ ;  $\rho = 1000$  kg/m<sup>3</sup>

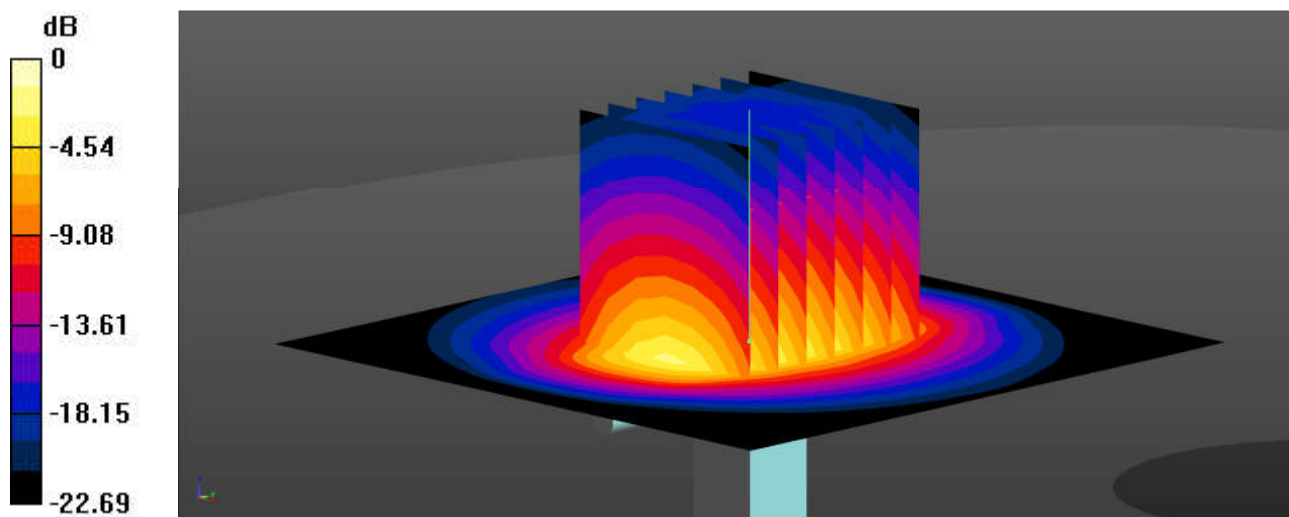
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.14, 8.14, 8.14); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 4.47 W/kg

**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 50.09 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 5.50 W/kg  
**SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.21 W/kg**  
Maximum value of SAR (measured) = 4.41 W/kg



0 dB = 4.41 W/kg = 6.44 dBW/kg