



<5GNR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	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)
77	N5_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Back	0mm	Reduced	167300	836.5	22.19	23.00	1.205	0.03	1.270	1.530
	N5_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Back	12mm	Full	167300	836.5	23.28	24.00	1.180	-0.05	0.146	0.172
	N5_Ant 0	20M	BPSK	50	28	DFT_SCS 15KHz	Back	0mm	Reduced	167300	836.5	22.08	23.00	1.236	0.13	1.210	1.495
	N5_Ant 0	20M	BPSK	50	28	DFT_SCS 15KHz	Back	12mm	Full	167300	836.5	23.01	24.00	1.256	-0.01	0.167	0.210
	N66_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Front	0mm	Reduced	344000	1720	17.96	19.00	1.271	0.14	0.812	1.032
78	N66_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Back	0mm	Reduced	344000	1720	17.96	19.00	1.271	0.07	1.210	1.537
	N66_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Bottom Side	0mm	Reduced	344000	1720	17.96	19.00	1.271	0.1	1.180	1.499
	N66_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Front	8mm	Full	344000	1720	23.08	24.00	1.236	-0.15	0.732	0.905
	N66_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Back	12mm	Full	344000	1720	23.08	24.00	1.236	0.07	0.837	1.034
	N66_Ant 0	20M	BPSK	1	1	DFT_SCS 15KHz	Bottom Side	11mm	Full	344000	1720	23.08	24.00	1.236	0.11	1.150	1.421
	N66_Ant 0	20M	BPSK	50	28	DFT_SCS 15KHz	Front	0mm	Reduced	344000	1720	17.93	19.00	1.279	0.06	0.802	1.026
	N66_Ant 0	20M	BPSK	50	28	DFT_SCS 15KHz	Back	0mm	Reduced	344000	1720	17.93	19.00	1.279	0.01	1.120	1.433
	N66_Ant 0	20M	BPSK	50	28	DFT_SCS 15KHz	Bottom Side	0mm	Reduced	344000	1720	17.93	19.00	1.279	-0.15	1.070	1.369
	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Front	0mm	Reduced	512000	2560	17.65	18.50	1.216	0.16	0.728	0.885
	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Back	0mm	Reduced	512000	2560	17.65	18.50	1.216	0.03	1.270	1.545
	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Left Side	0mm	Reduced	512000	2560	17.65	18.50	1.216	0.08	0.754	0.917
	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Top Side	0mm	Reduced	512000	2560	17.65	18.50	1.216	-0.09	0.805	0.979
	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Front	6mm	Full	512000	2560	23.10	24.00	1.230	0.05	1.080	1.329
	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Back	13mm	Full	512000	2560	23.10	24.00	1.230	0.07	0.845	1.040
	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Left Side	6mm	Full	512000	2560	23.10	24.00	1.230	0.04	0.794	0.977
79	N7_Ant 4	20M	BPSK	1	1	DFT_SCS 15KHz	Top Side	11mm	Full	512000	2560	23.10	24.00	1.230	0.06	1.280	1.575
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Front	0mm	Reduced	512000	2560	17.64	18.50	1.219	-0.05	0.708	0.863
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Back	0mm	Reduced	512000	2560	17.64	18.50	1.219	0.15	1.250	1.524
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Left Side	0mm	Reduced	512000	2560	17.64	18.50	1.219	-0.01	0.753	0.918
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Top Side	0mm	Reduced	512000	2560	17.64	18.50	1.219	-0.12	0.803	0.979
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Front	6mm	Full	512000	2560	23.10	24.00	1.230	0.05	0.986	1.213
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Back	13mm	Full	512000	2560	23.10	24.00	1.230	0.07	0.793	0.976
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Left Side	6mm	Full	512000	2560	23.10	24.00	1.230	0.04	0.724	0.891
	N7_Ant 4	20M	BPSK	50	28	DFT_SCS 15KHz	Top Side	11mm	Full	512000	2560	23.10	24.00	1.230	0.06	1.250	1.538
	N78_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Front	0mm	Reduced	633332	3499.98	19.04	20.00	1.247	-0.06	0.739	0.922
	N78_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Back	0mm	Reduced	633332	3499.98	19.04	20.00	1.247	0.11	1.140	1.422
	N78_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Right Side	0mm	Full	633332	3499.98	22.95	24.00	1.274	0.09	0.800	1.019
	N78_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Top Side	0mm	Reduced	633332	3499.98	19.04	20.00	1.247	-0.07	1.130	1.410
	N78_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Front	3mm	Full	633332	3499.98	22.95	24.00	1.274	0.12	0.615	0.783
	N78_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Back	10mm	Full	633332	3499.98	22.95	24.00	1.274	-0.11	0.434	0.553
	N78_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Top Side	8mm	Full	633332	3499.98	22.95	24.00	1.274	-0.08	0.668	0.851
	N78_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Front	0mm	Reduced	633332	3499.98	19.01	20.00	1.256	0.12	0.749	0.941
	N78_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Back	0mm	Reduced	633332	3499.98	19.01	20.00	1.256	0.13	1.260	1.583
	N78_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Right Side	0mm	Full	633332	3499.98	22.85	24.00	1.303	0.08	0.873	1.138
	N78_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Top Side	0mm	Reduced	633332	3499.98	19.01	20.00	1.256	-0.16	1.090	1.369
	N78_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Front	3mm	Full	633332	3499.98	22.85	24.00	1.303	0.06	0.824	1.074
	N78_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Back	10mm	Full	633332	3499.98	22.85	24.00	1.303	0.01	0.572	0.745
	N78_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Top Side	8mm	Full	633332	3499.98	22.85	24.00	1.303	0.09	0.848	1.105
	N78(HPUE)_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Front	0mm	Reduced	633332	3499.98	19.04	20.00	1.247	-0.06	0.739	0.922
	N78(HPUE)_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Back	0mm	Reduced	633332	3499.98	19.04	20.00	1.247	0.11	1.140	1.422
	N78(HPUE)_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Right Side	0mm	Full	633332	3499.98	24.94	26.00	1.276	-0.09	1.010	1.289
	N78(HPUE)_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Top Side	0mm	Reduced	633332	3499.98	19.04	20.00	1.247	-0.07	1.090	1.360
	N78(HPUE)_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Front	3mm	Full	633332	3499.98	24.94	26.00	1.276	0.02	1.070	1.366
	N78(HPUE)_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Back	10mm	Full	633332	3499.98	24.94	26.00	1.276	0.01	0.700	0.894
	N78(HPUE)_Ant 5	100M	BPSK	1	1	DFT-SCS_30KHz	Top Side	8mm	Full	633332	3499.98	24.94	26.00	1.276	0.05	0.803	1.025
	N78(HPUE)_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Front	0mm	Reduced	633332	3499.98	19.01	20.00	1.256	0.12	0.749	0.941
80	N78(HPUE)_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Back	0mm	Reduced	633332	3499.98	19.01	20.00	1.256	0.13	1.260	1.583



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	N78(HPUE)_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Right Side	0mm	Full	633332	3499.98	24.86	26.00	1.300	0.09	1.180	1.534
	N78(HPUE)_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Top Side	0mm	Reduced	633332	3499.98	19.01	20.00	1.256	-0.16	1.130	1.419
	N78(HPUE)_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Front	3mm	Full	633332	3499.98	24.86	26.00	1.300	0.03	1.200	1.560
	N78(HPUE)_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Back	10mm	Full	633332	3499.98	24.86	26.00	1.300	0.04	0.960	1.248
	N78(HPUE)_Ant 5	100M	BPSK	135	69	DFT-SCS_30KHz	Top Side	8mm	Full	633332	3499.98	24.86	26.00	1.300	0.01	1.040	1.352

<WLAN2.4G SAR>

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)
81	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Standalone	6	2437	19.00	20.50	1.413	99.01	1.010	0.05	1.390	1.983
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Simultaneous	6	2437	14.50	16.00	1.413	99.01	1.010	-0.04	0.521	0.743

<WLAN5G SAR>

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)
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 6	Standalone	40	5200	17.30	19.00	1.479	97.97	1.021	0.02	0.559	0.844
82	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	40	5200	17.30	19.00	1.479	97.97	1.021	0.05	0.776	1.172
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Simultaneous	38	5190	15.98	17.50	1.419	96.4	1.037	0.02	0.396	0.583
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Simultaneous	38	5190	15.98	17.50	1.419	96.4	1.037	-0.07	0.517	0.761
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 6	Standalone	52	5260	17.13	19.00	1.538	97.97	1.021	-0.02	0.320	0.503
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6	Standalone	52	5260	17.13	19.00	1.538	97.97	1.021	0.16	0.673	1.057
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Standalone	52	5260	17.13	19.00	1.538	97.97	1.021	-0.16	0.212	0.333
83	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	52	5260	17.13	19.00	1.538	97.97	1.021	0.1	1.050	1.649
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	58	5290	13.67	15.50	1.524	95.78	1.044	0.05	0.200	0.318
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	58	5290	13.67	15.50	1.524	95.78	1.044	0.01	0.487	0.775
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	Simultaneous	58	5290	13.67	15.50	1.524	95.78	1.044	-0.06	0.685	1.090
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Standalone	140	5700	17.44	19.00	1.432	97.97	1.021	0.19	0.310	0.453
84	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Standalone	140	5700	17.44	19.00	1.432	97.97	1.021	0.15	1.140	1.667
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Standalone	140	5700	17.44	19.00	1.432	97.97	1.021	0.09	0.430	0.629
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	140	5700	17.44	19.00	1.432	97.97	1.021	-0.14	0.875	1.280
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	106	5530	10.57	12.00	1.390	95.78	1.044	0.09	0.091	0.132
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	106	5530	10.57	12.00	1.390	95.78	1.044	0.05	0.518	0.752
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	Simultaneous	106	5530	10.57	12.00	1.390	95.78	1.044	-0.13	0.486	0.705
85	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 6	Standalone	149	5745	17.34	19.00	1.466	97.97	1.021	-0.03	1.040	1.556
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	155	5775	14.35	16.00	1.462	95.78	1.044	0.09	0.492	0.751

15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	GSM850_Ant0	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Reduce	189	836.4	28.72	29.50	1.197	-0.08	1.080	1	1.292
2nd	GSM850_Ant0	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Reduce	189	836.4	28.72	29.50	1.197	0.05	1.040	1.038	1.245
1st	WCDMA IV_Ant0	-	-	-	-	RMC 12.2Kbps	Back	5mm	Reduce	1513	1752.6	14.21	16.00	1.510	0.1	0.943	1	1.424
2nd	WCDMA IV_Ant0	-	-	-	-	RMC 12.2Kbps	Back	5mm	Reduce	1513	1752.6	14.21	16.00	1.510	0.05	0.924	1.021	1.395
1st	WCDMA II_Ant0	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Reduce	9262	1852.4	16.33	17.50	1.309	0.08	1.080	1	1.414
2nd	WCDMA II_Ant0	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Reduce	9262	1852.4	16.33	17.50	1.309	0.01	0.998	1.082	1.307
1st	LTE Band 13_Ant0	10M	QPSK	1	0	-	Back	5mm	Full	23230	782	22.66	24.00	1.361	0.15	0.840	1	1.144
2nd	LTE Band 13_Ant0	10M	QPSK	1	0	-	Back	5mm	Full	23230	782	22.66	24.00	1.361	0.11	0.833	1.008	1.134
1st	LTE Band 7_Ant1	20M	QPSK	50	0	-	Back	5mm	Reduce	21100	2535	17.31	18.50	1.315	-0.01	1.090	1	1.434
2nd	LTE Band 7_Ant1	20M	QPSK	50	0	-	Back	5mm	Reduce	21100	2535	17.31	18.50	1.315	-0.09	1.020	1.069	1.342

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	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	GSM1900_Ant0	-	-	-	-	GPRS 2 Tx slots	Back	0mm	Full	512	1850.2	27.19	28.00	1.205	-	-	-0.12	2.530	1	3.049
2nd	GSM1900_Ant0	-	-	-	-	GPRS 2 Tx slots	Back	0mm	Full	512	1850.2	27.19	28.00	1.205	-	-	0.04	2.460	1.028	2.964
1st	WCDMA IV_Ant0	-	-	-	-	RMC 12.2Kbps	Back	0mm	Reduce	1312	1712.4	19.55	21.00	1.396	-	-	-0.07	2.500	1	3.491
2nd	WCDMA IV_Ant0	-	-	-	-	RMC 12.2Kbps	Back	0mm	Reduce	1312	1712.4	19.55	21.00	1.396	-	-	-0.07	2.410	1.037	3.365
1st	LTE Band 38_Ant1	20M	QPSK	1	0	-	Back	0mm	Full	38150	2610	23.01	24.00	1.256	62.9	1.006	-0.09	2.480	1	3.134
2nd	LTE Band 38_Ant1	20M	QPSK	1	0	-	Back	0mm	Full	38150	2610	23.01	24.00	1.256	62.9	1.006	0.03	2.430	1.021	3.070

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/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. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands.
3. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
4. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
5. This device 2.4GHz WLAN/ 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).
6. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
7. According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
8. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
9. Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
10. The reported SAR summation is calculated based on the same configuration and test position.
11. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 16.5.



16.1 Head Exposure Conditions

WWAN Band		Exposure Position	1	3	6	9	1+3 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)	1+9 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM	GSM850_Ant0	Right Cheek	0.455	0.096	0.455	0.075	0.55	0.91	0.53
		Right Tilted	0.197	0.091	0.455	0.067	0.29	0.65	0.26
		Left Cheek	0.324	0.394	0.416	0.187	0.72	0.74	0.51
		Left Tilted	0.174	0.290	0.455	0.174	0.46	0.63	0.35
	GSM1900_Ant0	Right Cheek	0.180	0.096	0.455	0.075	0.28	0.64	0.26
		Right Tilted	0.120	0.091	0.455	0.067	0.21	0.58	0.19
		Left Cheek	0.133	0.394	0.416	0.187	0.53	0.55	0.32
		Left Tilted	0.158	0.290	0.455	0.174	0.45	0.61	0.33
WCDMA	WCDMA V_Ant0	Right Cheek	0.407	0.096	0.455	0.075	0.50	0.86	0.48
		Right Tilted	0.203	0.091	0.455	0.067	0.29	0.66	0.27
		Left Cheek	0.348	0.394	0.416	0.187	0.74	0.76	0.54
		Left Tilted	0.185	0.290	0.455	0.174	0.48	0.64	0.36
	WCDMA IV_Ant0	Right Cheek	0.227	0.096	0.455	0.075	0.32	0.68	0.30
		Right Tilted	0.097	0.091	0.455	0.067	0.19	0.55	0.16
		Left Cheek	0.140	0.394	0.416	0.187	0.53	0.56	0.33
		Left Tilted	0.110	0.290	0.455	0.174	0.40	0.57	0.28
	WCDMA II_Ant0	Right Cheek	0.242	0.096	0.455	0.075	0.34	0.70	0.32
		Right Tilted	0.195	0.091	0.455	0.067	0.29	0.65	0.26
		Left Cheek	0.186	0.394	0.416	0.187	0.58	0.60	0.37
		Left Tilted	0.237	0.290	0.455	0.174	0.53	0.69	0.41
LTE	LTE Band 12_Ant0	Right Cheek	0.315	0.096	0.455	0.075	0.41	0.77	0.39
		Right Tilted	0.140	0.091	0.455	0.067	0.23	0.60	0.21
		Left Cheek	0.223	0.394	0.416	0.187	0.62	0.64	0.41
		Left Tilted	0.107	0.290	0.455	0.174	0.40	0.56	0.28
	LTE Band 13_Ant0	Right Cheek	0.260	0.096	0.455	0.075	0.36	0.72	0.34
		Right Tilted	0.158	0.091	0.455	0.067	0.25	0.61	0.23
		Left Cheek	0.221	0.394	0.416	0.187	0.62	0.64	0.41
		Left Tilted	0.110	0.290	0.455	0.174	0.40	0.57	0.28
	LTE Band 26_Ant0	Right Cheek	0.395	0.096	0.455	0.075	0.49	0.85	0.47
		Right Tilted	0.199	0.091	0.455	0.067	0.29	0.65	0.27
		Left Cheek	0.301	0.394	0.416	0.187	0.70	0.72	0.49
		Left Tilted	0.157	0.290	0.455	0.174	0.45	0.61	0.33
	LTE Band 66_Ant0	Right Cheek	0.300	0.096	0.455	0.075	0.40	0.76	0.38
		Right Tilted	0.143	0.091	0.455	0.067	0.23	0.60	0.21
		Left Cheek	0.161	0.394	0.416	0.187	0.56	0.58	0.35
		Left Tilted	0.185	0.290	0.455	0.174	0.48	0.64	0.36
	LTE Band 2_Ant0	Right Cheek	0.227	0.096	0.455	0.075	0.32	0.68	0.30
		Right Tilted	0.135	0.091	0.455	0.067	0.23	0.59	0.20
		Left Cheek	0.171	0.394	0.416	0.187	0.57	0.59	0.36
		Left Tilted	0.197	0.290	0.455	0.174	0.49	0.65	0.37
	LTE Band 7_Ant1	Right Cheek	0.582	0.096	0.455	0.075	0.68	1.04	0.66
		Right Tilted	0.466	0.091	0.455	0.067	0.56	0.92	0.53
		Left Cheek	0.734	0.394	0.416	0.187	1.13	1.15	0.92
		Left Tilted	0.269	0.290	0.455	0.174	0.56	0.72	0.44
	LTE Band 38_Ant1	Right Cheek	0.279	0.096	0.455	0.075	0.38	0.73	0.35
		Right Tilted	0.257	0.091	0.455	0.067	0.35	0.71	0.32
		Left Cheek	0.395	0.394	0.416	0.187	0.79	0.81	0.58
		Left Tilted	0.149	0.290	0.455	0.174	0.44	0.60	0.32
	LTE Band 42_Ant5	Right Cheek	0.446	0.096	0.455	0.075	0.54	0.90	0.52
		Right Tilted	0.465	0.091	0.455	0.067	0.56	0.92	0.53
		Left Cheek	1.062	0.394	0.416	0.187	1.46	1.48	1.25
		Left Tilted	0.881	0.290	0.455	0.174	1.17	1.34	1.06

LTE Inter Band UL CA

WWAN Band		Exposure Position	1	3	4	6	9	1+3+4 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+3+9 Summed 1g SAR (W/kg)
			WWAN	LTE Band 7 Ant 4	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
Inter-Band UL CA	LTE Band 5_Ant0	Right Cheek	0.406	0.505	0.096	0.455	0.075	1.01	1.37	0.99
		Right Tilted	0.211	0.701	0.091	0.455	0.067	1.00	1.37	0.98
		Left Cheek	0.304	0.236	0.394	0.416	0.187	0.93	0.96	0.73
		Left Tilted	0.166	0.314	0.290	0.455	0.174	0.77	0.94	0.65

5G NR

WWAN Band		Exposure Position	1	3	4	5	6	7	1+3+6 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N5_Ant 0	N66_Ant 0						
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
ENDC	LTE Band 7_Ant4 (ENDC)	Right Cheek	0.505	0.096	0.455	0.075	0.233	0.197	0.83	0.80	1.19	1.16	0.81	0.78
		Right Tilted	0.701	0.091	0.455	0.067	0.129	0.095	0.92	0.89	1.29	1.25	0.90	0.86
		Left Cheek	0.236	0.394	0.416	0.187	0.230	0.106	0.86	0.74	0.88	0.76	0.65	0.53
		Left Tilted	0.314	0.290	0.455	0.174	0.127	0.117	0.73	0.72	0.90	0.89	0.62	0.61

WWAN Band		Exposure Position	1	3	4	5	8	1+3+8 Summed 1g SAR (W/kg)	1+4+8 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N7_Ant 4			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
ENDC	LTE Band 2_Ant0 (ENDC)	Right Cheek	0.227	0.096	0.455	0.075	0.608	0.93	1.29	0.91
		Right Tilted	0.135	0.091	0.455	0.067	0.776	1.00	1.37	0.98
		Left Cheek	0.171	0.394	0.416	0.187	0.213	0.78	0.80	0.57
		Left Tilted	0.197	0.290	0.455	0.174	0.339	0.83	0.99	0.71
	LTE Band 66_Ant0 (ENDC)	Right Cheek	0.300	0.096	0.455	0.075	0.608	1.00	1.36	0.98
		Right Tilted	0.143	0.091	0.455	0.067	0.776	1.01	1.37	0.99
		Left Cheek	0.161	0.394	0.416	0.187	0.213	0.77	0.79	0.56
		Left Tilted	0.185	0.290	0.455	0.174	0.339	0.81	0.98	0.70
	LTE Band 5_Ant0 (ENDC)	Right Cheek	0.406	0.096	0.455	0.075	0.608	1.11	1.47	1.09
		Right Tilted	0.211	0.091	0.455	0.067	0.776	1.08	1.44	1.05
		Left Cheek	0.304	0.394	0.416	0.187	0.213	0.91	0.93	0.70
		Left Tilted	0.166	0.290	0.455	0.174	0.339	0.80	0.96	0.68



WWAN Band		Exposure Position	1	3	4	5	9	10	1+3+9 Summed 1g SAR (W/kg)	1+3+10 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+5+9 Summed 1g SAR (W/kg)	1+5+10 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N78_Ant 5	N78(HPUE) _Ant 5						
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
ENDC	LTE Band 2_Ant0 (ENDC)	Right Cheek	0.227	0.096	0.455	0.075	0.335	0.335	0.66	0.66	1.02	1.02	0.64	0.64
		Right Tilted	0.135	0.091	0.455	0.067	0.374	0.374	0.60	0.60	0.96	0.96	0.58	0.58
		Left Cheek	0.171	0.394	0.416	0.187	0.781	0.781	1.35	1.35	1.37	1.37	1.14	1.14
		Left Tilted	0.197	0.290	0.455	0.174	0.783	0.783	1.27	1.27	1.44	1.44	1.15	1.15
	LTE Band 66_Ant0 (ENDC)	Right Cheek	0.300	0.096	0.455	0.075	0.335	0.335	0.73	0.73	1.09	1.09	0.71	0.71
		Right Tilted	0.143	0.091	0.455	0.067	0.374	0.374	0.61	0.61	0.97	0.97	0.58	0.58
		Left Cheek	0.161	0.394	0.416	0.187	0.781	0.781	1.34	1.34	1.36	1.36	1.13	1.13
		Left Tilted	0.185	0.290	0.455	0.174	0.783	0.783	1.26	1.26	1.42	1.42	1.14	1.14
	LTE Band 5_Ant0 (ENDC)	Right Cheek	0.406	0.096	0.455	0.075	0.335	0.335	0.84	0.84	1.20	1.20	0.82	0.82
		Right Tilted	0.211	0.091	0.455	0.067	0.374	0.374	0.68	0.68	1.04	1.04	0.65	0.65
		Left Cheek	0.304	0.394	0.416	0.187	0.781	0.781	1.48	1.48	1.50	1.50	1.27	1.27
		Left Tilted	0.166	0.290	0.455	0.174	0.783	0.783	1.24	1.24	1.40	1.40	1.12	1.12
	LTE Band 7_Ant1 (ENDC)	Right Cheek	0.227	0.096	0.455	0.075	0.335	0.335	0.66	0.66	1.02	1.02	0.64	0.64
		Right Tilted	0.216	0.091	0.455	0.067	0.374	0.374	0.68	0.68	1.05	1.05	0.66	0.66
		Left Cheek	0.345	0.394	0.416	0.187	0.781	0.781	1.52	1.52	1.54	1.54	1.31	1.31
		Left Tilted	0.117	0.290	0.455	0.174	0.783	0.783	1.19	1.19	1.36	1.36	1.07	1.07
	LTE Band 38_Ant1 (ENDC)	Right Cheek	0.279	0.096	0.455	0.075	0.335	0.335	0.71	0.71	1.07	1.07	0.69	0.69
		Right Tilted	0.257	0.091	0.455	0.067	0.374	0.374	0.72	0.72	1.09	1.09	0.70	0.70
		Left Cheek	0.395	0.394	0.416	0.187	0.781	0.781	1.57	1.57	1.59	1.59	1.36	1.36
		Left Tilted	0.149	0.290	0.455	0.174	0.783	0.783	1.22	1.22	1.39	1.39	1.11	1.11



16.2 Hotspot Exposure Conditions

WWAN Band		Exposure Position	1	3	6	9	1+3	1+6	1+9	Case No
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
GSM	GSM850_Ant0	Front	0.659	0.177	0.070	0.124	0.84	0.73	0.78	
		Back	1.305	0.364	0.393	0.153	1.67	1.70	1.46	Case 1/2
		Left side	0.247				0.25	0.25	0.25	
		Right side	0.353	0.188	0.122	0.067	0.54	0.48	0.42	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	0.691				0.69	0.69	0.69	
	GSM1900_Ant0	Front	0.769	0.177	0.070	0.124	0.95	0.84	0.89	
		Back	1.328	0.364	0.393	0.153	1.69	1.72	1.48	Case 3/4
		Left side	0.160				0.16	0.16	0.16	
		Right side	0.073	0.188	0.122	0.067	0.26	0.20	0.14	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	1.308				1.31	1.31	1.31	
WCDMA	WCDMA V_Ant0	Front	0.650	0.177	0.070	0.124	0.83	0.72	0.77	
		Back	1.391	0.364	0.393	0.153	1.76	1.78	1.54	Case 5/6
		Left side	0.243				0.24	0.24	0.24	
		Right side	0.416	0.188	0.122	0.067	0.60	0.54	0.48	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	0.646				0.65	0.65	0.65	
	WCDMA IV_Ant0	Front	0.456	0.177	0.070	0.124	0.63	0.53	0.58	
		Back	1.424	0.364	0.393	0.153	1.79	1.82	1.58	Case 7/8
		Left side	0.025				0.03	0.03	0.03	
		Right side	0.098	0.188	0.122	0.067	0.29	0.22	0.17	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	1.242				1.24	1.24	1.24	
	WCDMA II_Ant0	Front	0.708	0.177	0.070	0.124	0.89	0.78	0.83	
		Back	1.394	0.364	0.393	0.153	1.76	1.79	1.55	Case 9/10
		Left side	0.114				0.11	0.11	0.11	
		Right side	0.073	0.188	0.122	0.067	0.26	0.20	0.14	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	1.414				1.41	1.41	1.41	
LTE	LTE Band 12_Ant0	Front	0.445	0.177	0.070	0.124	0.62	0.52	0.57	
		Back	0.956	0.364	0.393	0.153	1.32	1.35	1.11	
		Left side	0.386				0.39	0.39	0.39	
		Right side	0.380	0.188	0.122	0.067	0.57	0.50	0.45	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	0.352				0.35	0.35	0.35	
	LTE Band 13_Ant0	Front	0.451	0.177	0.070	0.124	0.63	0.52	0.58	
		Back	1.144	0.364	0.393	0.153	1.51	1.54	1.30	
		Left side	0.236				0.24	0.24	0.24	
		Right side	0.470	0.188	0.122	0.067	0.66	0.59	0.54	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	0.670				0.67	0.67	0.67	
	LTE Band 26_Ant0	Front	0.602	0.177	0.070	0.124	0.78	0.67	0.73	
		Back	1.321	0.364	0.393	0.153	1.69	1.71	1.47	Case 11/12
		Left side	0.258				0.26	0.26	0.26	
		Right side	0.459	0.188	0.122	0.067	0.65	0.58	0.53	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	0.593				0.59	0.59	0.59	
	LTE Band	Front	0.564	0.177	0.070	0.124	0.74	0.63	0.69	

	66_Ant0	Back	1.234	0.364	0.393	0.153	1.60	1.63	1.39	Case 13/14
		Left side	0.062				0.06	0.06	0.06	
		Right side	0.090	0.188	0.122	0.067	0.28	0.21	0.16	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	1.279				1.28	1.28	1.28	
	LTE Band 2_Ant0	Front	0.673	0.177	0.070	0.124	0.85	0.74	0.80	
		Back	1.355	0.364	0.393	0.153	1.72	1.75	1.51	Case 15/16
		Left side	0.150				0.15	0.15	0.15	
		Right side	0.075	0.188	0.122	0.067	0.26	0.20	0.14	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	1.304				1.30	1.30	1.30	
	LTE Band 7_Ant1	Front	0.960	0.177	0.070	0.124	1.14	1.03	1.08	
		Back	1.434	0.364	0.393	0.153	1.80	1.83	1.59	Case 17/18
		Left side	0.837				0.84	0.84	0.84	
		Right side	0.157	0.188	0.122	0.067	0.35	0.28	0.22	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	0.964				0.96	0.96	0.96	
	LTE Band 38_Ant1	Front	0.845	0.177	0.070	0.124	1.02	0.92	0.97	
		Back	1.365	0.364	0.393	0.153	1.73	1.76	1.52	Case 19/20
		Left side	0.627				0.63	0.63	0.63	
		Right side	0.162	0.188	0.122	0.067	0.35	0.28	0.23	
		Top side		0.140	0.238	0.088	0.14	0.24	0.09	
		Bottom side	0.814				0.81	0.81	0.81	
	LTE Band 42_Ant5	Front	0.551	0.177	0.070	0.124	0.73	0.62	0.68	
		Back	1.113	0.364	0.393	0.153	1.48	1.51	1.27	
		Left side					0.00	0.00	0.00	
		Right side	0.328	0.188	0.122	0.067	0.52	0.45	0.40	
		Top side	0.584	0.140	0.238	0.088	0.72	0.82	0.67	
		Bottom side					0.00	0.00	0.00	



LTE Inter Band UL CA

WWAN Band		Exposure Position	1	3	4	6	9	1+3+4 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+3+9 Summed 1g SAR (W/kg)
			WWAN	LTE Band 7 Ant 4	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
Inter-Band UL CA	LTE Band 5_Ant0	Front	0.257	0.177	0.177	0.070	0.124	0.61	0.50	0.56
		Back	0.526	0.502	0.364	0.393	0.153	1.39	1.42	1.18
		Left side	0.109	0.124				0.23	0.23	0.23
		Right side	0.180		0.188	0.122	0.067	0.37	0.30	0.25
		Top side		0.681	0.140	0.238	0.088	0.82	0.92	0.77
		Bottom side	0.284					0.28	0.28	0.28

5G NR

WWAN Band		Exposure Position	1	3	4	5	6	7	1+3+6 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N5_Ant 0	N66_Ant 0						
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
ENDC	LTE Band 7_Ant4 (ENDC)	Front	0.177	0.177	0.070	0.124	0.276	0.282	0.63	0.64	0.52	0.53	0.58	0.58
		Back	0.502	0.364	0.393	0.153	0.583	0.592	1.45	1.46	1.48	1.49	1.24	1.25
		Left side	0.124				0.123		0.25	0.12	0.25	0.12	0.25	0.12
		Right side		0.188	0.122	0.067	0.206		0.39	0.19	0.33	0.12	0.27	0.07
		Top side	0.681	0.140	0.238	0.088			0.82	0.82	0.92	0.92	0.77	0.77
		Bottom side					0.276	0.678	0.28	0.68	0.28	0.68	0.28	0.68

WWAN Band		Exposure Position	1	3	4	5	8	1+3+8 Summed 1g SAR (W/kg)	1+4+8 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N7_Ant 4			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
ENDC	LTE Band 2_Ant0 (ENDC)	Front	0.267	0.177	0.070	0.124	0.231	0.68	0.57	0.62
		Back	0.529	0.364	0.393	0.153	0.545	1.44	1.47	1.23
		Left side	0.057				0.153	0.21	0.21	0.21
		Right side		0.188	0.122	0.067		0.19	0.12	0.07
		Top side		0.140	0.238	0.088	0.662	0.80	0.90	0.75
		Bottom side	0.661					0.66	0.66	0.66
	LTE Band 66_Ant0 (ENDC)	Front	0.246	0.177	0.070	0.124	0.231	0.65	0.55	0.60
		Back	0.527	0.364	0.393	0.153	0.545	1.44	1.47	1.23
		Left side					0.153	0.15	0.15	0.15
		Right side	0.053	0.188	0.122	0.067		0.24	0.18	0.12
		Top side		0.140	0.238	0.088	0.662	0.80	0.90	0.75
		Bottom side	0.645					0.65	0.65	0.65
	LTE Band 5_Ant0 (ENDC)	Front	0.257	0.177	0.070	0.124	0.231	0.67	0.56	0.61
		Back	0.526	0.364	0.393	0.153	0.545	1.44	1.46	1.22
		Left side	0.109				0.153	0.26	0.26	0.26
		Right side	0.180	0.188	0.122	0.067		0.37	0.30	0.25
		Top side		0.140	0.238	0.088	0.662	0.80	0.90	0.75
		Bottom side	0.284					0.28	0.28	0.28



WWAN Band		Exposure Position	1	3	4	5	9	10	1+3+9 Summed 1g SAR (W/kg)	1+3+10 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+5+9 Summed 1g SAR (W/kg)	1+5+10 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	N78_Ant 5 1g SAR (W/kg)	N78(HPUE)_Ant 5 1g SAR (W/kg)						
ENDC	LTE Band 2_Ant0 (ENDC)	Front	0.267	0.177	0.070	0.124	0.248	0.248	0.69	0.69	0.59	0.59	0.64	0.64
		Back	0.529	0.364	0.393	0.153	0.596	0.596	1.49	1.49	1.52	1.52	1.28	1.28
		Left side	0.057						0.06	0.06	0.06	0.06	0.06	0.06
		Right side		0.188	0.122	0.067	0.125	0.125	0.31	0.31	0.25	0.25	0.19	0.19
		Top side		0.140	0.238	0.088	0.466	0.466	0.61	0.61	0.70	0.70	0.55	0.55
		Bottom side	0.661						0.66	0.66	0.66	0.66	0.66	0.66
	LTE Band 66_Ant0 (ENDC)	Front	0.246	0.177	0.070	0.124	0.248	0.248	0.67	0.67	0.56	0.56	0.62	0.62
		Back	0.527	0.364	0.393	0.153	0.596	0.596	1.49	1.49	1.52	1.52	1.28	1.28
		Left side							0.00	0.00	0.00	0.00	0.00	0.00
		Right side	0.053	0.188	0.122	0.067	0.125	0.125	0.37	0.37	0.30	0.30	0.25	0.25
		Top side		0.140	0.238	0.088	0.466	0.466	0.61	0.61	0.70	0.70	0.55	0.55
		Bottom side	0.645						0.65	0.65	0.65	0.65	0.65	0.65
	LTE Band 5_Ant0 (ENDC)	Front	0.257	0.177	0.070	0.124	0.248	0.248	0.68	0.68	0.58	0.58	0.63	0.63
		Back	0.526	0.364	0.393	0.153	0.596	0.596	1.49	1.49	1.52	1.52	1.28	1.28
		Left side	0.109						0.11	0.11	0.11	0.11	0.11	0.11
		Right side	0.180	0.188	0.122	0.067	0.125	0.125	0.49	0.49	0.43	0.43	0.37	0.37
		Top side		0.140	0.238	0.088	0.466	0.466	0.61	0.61	0.70	0.70	0.55	0.55
		Bottom side	0.284						0.28	0.28	0.28	0.28	0.28	0.28
	LTE Band 7_Ant1 (ENDC)	Front	0.393	0.177	0.070	0.124	0.248	0.248	0.82	0.82	0.71	0.71	0.77	0.77
		Back	0.567	0.364	0.393	0.153	0.596	0.596	1.53	1.53	1.56	1.56	1.32	1.32
		Left side	0.356						0.36	0.36	0.36	0.36	0.36	0.36
		Right side	0.080	0.188	0.122	0.067	0.125	0.125	0.39	0.39	0.33	0.33	0.27	0.27
		Top side		0.140	0.238	0.088	0.466	0.466	0.61	0.61	0.70	0.70	0.55	0.55
		Bottom side	0.397						0.40	0.40	0.40	0.40	0.40	0.40
	LTE Band 38_Ant1 (ENDC)	Front	0.417	0.177	0.070	0.124	0.248	0.248	0.84	0.84	0.74	0.74	0.79	0.79
		Back	0.582	0.364	0.393	0.153	0.596	0.596	1.54	1.54	1.57	1.57	1.33	1.33
		Left side	0.365						0.37	0.37	0.37	0.37	0.37	0.37
		Right side	0.073	0.188	0.122	0.067	0.125	0.125	0.39	0.39	0.32	0.32	0.27	0.27
		Top side		0.140	0.238	0.088	0.466	0.466	0.61	0.61	0.70	0.70	0.55	0.55
		Bottom side	0.391						0.39	0.39	0.39	0.39	0.39	0.39



16.3 Body-Worn Accessory Exposure Conditions

WWAN Band		Exposure Position	1	3	6	9	1+3 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)	1+9 Summed 1g SAR (W/kg)	Case No
			WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)				
GSM	GSM850_Ant0	Front	0.659	0.177	0.087	0.124	0.84	0.75	0.78	
		Back	1.305	0.364	0.406	0.153	1.67	1.71	1.46	Case 1/21
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.222				1.22	1.22	1.22	
	GSM1900_Ant0	Front	0.769	0.177	0.087	0.124	0.95	0.86	0.89	
		Back	1.328	0.364	0.406	0.153	1.69	1.73	1.48	Case 3/22
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.081				1.08	1.08	1.08	
WCDMA	WCDMA V_Ant0	Front	0.650	0.177	0.087	0.124	0.83	0.74	0.77	
		Back	1.391	0.364	0.406	0.153	1.76	1.80	1.54	Case 5/23
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.365				1.37	1.37	1.37	
	WCDMA IV_Ant0	Front	0.642	0.177	0.087	0.124	0.82	0.73	0.77	
		Back	1.424	0.364	0.406	0.153	1.79	1.83	1.58	Case 7/24
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.086				1.09	1.09	1.09	
	WCDMA II_Ant0	Front	0.708	0.177	0.087	0.124	0.89	0.80	0.83	
		Back	1.394	0.364	0.406	0.153	1.76	1.80	1.55	Case 9/25
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.381				1.38	1.38	1.38	
LTE	LTE Band 12_Ant0	Front	0.445	0.177	0.087	0.124	0.62	0.53	0.57	
		Back	0.956	0.364	0.406	0.153	1.32	1.36	1.11	
		Front with Headset					0.00	0.00	0.00	
		Back with Headset					0.00	0.00	0.00	
	LTE Band 13_Ant0	Front	0.451	0.177	0.087	0.124	0.63	0.54	0.58	
		Back	1.144	0.364	0.406	0.153	1.51	1.55	1.30	
		Front with Headset					0.00	0.00	0.00	
		Back with Headset					0.00	0.00	0.00	
	LTE Band 26_Ant0	Front	0.602	0.177	0.087	0.124	0.78	0.69	0.73	
		Back	1.321	0.364	0.406	0.153	1.69	1.73	1.47	Case 11/26
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.315				1.32	1.32	1.32	
	LTE Band 66_Ant0	Front	0.634	0.177	0.087	0.124	0.81	0.72	0.76	
		Back	1.234	0.364	0.406	0.153	1.60	1.64	1.39	Case 13/27
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.016				1.02	1.02	1.02	
	LTE Band 2_Ant0	Front	0.673	0.177	0.087	0.124	0.85	0.76	0.80	
		Back	1.355	0.364	0.406	0.153	1.72	1.76	1.51	Case 15/28
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.291				1.29	1.29	1.29	
	LTE Band 7_Ant1	Front	0.960	0.177	0.087	0.124	1.14	1.05	1.08	
		Back	1.434	0.364	0.406	0.153	1.80	1.84	1.59	Case 17/29
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.295				1.30	1.30	1.30	
	LTE Band 38_Ant1	Front	0.845	0.177	0.087	0.124	1.02	0.93	0.97	
		Back	1.365	0.364	0.406	0.153	1.73	1.77	1.52	Case 19/30
		Front with Headset					0.00	0.00	0.00	
		Back with Headset	1.040				1.04	1.04	1.04	
	LTE Band 42_Ant5	Front	0.551	0.177	0.087	0.124	0.73	0.64	0.68	
		Back	1.113	0.364	0.406	0.153	1.48	1.52	1.27	
		Front with Headset					0.00	0.00	0.00	
		Back with Headset					0.00	0.00	0.00	



LTE Inter Band UL CA

WWAN Band		Exposure Position	1	3	4	6	9	1+3+4 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+3+9 Summed 1g SAR (W/kg)
			WWAN	LTE Band 7 Ant 4	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
Inter-Band UL CA	LTE Band 5_Ant0	Front	0.280	0.421	0.177	0.087	0.124	0.88	0.79	0.83
		Back	0.526	0.502	0.364	0.406	0.153	1.39	1.43	1.18

5G NR

WWAN Band		Exposure Position	1	3	4	5	6	7	1+3+6 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N5_Ant 0	N66_Ant 0						
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
ENDC	LTE Band 7_Ant4 (ENDC)	Front	0.421	0.177	0.087	0.124	0.276	0.588	0.87	1.19	0.78	1.10	0.82	1.13
		Back	0.502	0.364	0.406	0.153	0.583	0.632	1.45	1.50	1.49	1.54	1.24	1.29

WWAN Band		Exposure Position	1	3	4	5	8	1+3+8 Summed 1g SAR (W/kg)	1+4+8 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N7_Ant 4			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
ENDC	LTE Band 2_Ant0 (ENDC)	Front	0.491	0.177	0.087	0.124	0.476	1.14	1.05	1.09
		Back	0.529	0.364	0.406	0.153	0.545	1.44	1.48	1.23
		Front with Headset						0.00	0.00	0.00
		Back with Headset						0.00	0.00	0.00
	LTE Band 66_Ant0 (ENDC)	Front	0.643	0.177	0.087	0.124	0.476	1.30	1.21	1.24
		Back	0.539	0.364	0.406	0.153	0.545	1.45	1.49	1.24
		Front with Headset						0.00	0.00	0.00
		Back with Headset						0.00	0.00	0.00
	LTE Band 5_Ant0 (ENDC)	Front	0.280	0.177	0.087	0.124	0.476	0.93	0.84	0.88
		Back	0.526	0.364	0.406	0.153	0.545	1.44	1.48	1.22
		Front with Headset						0.00	0.00	0.00
		Back with Headset						0.00	0.00	0.00

WWAN Band		Exposure Position	1	3	4	5	9	10	1+3+9 Summed 1g SAR (W/kg)	1+3+10 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+5+9 Summed 1g SAR (W/kg)	1+5+10 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N78_Ant 5	N78(HPUE)_Ant 5						
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
ENDC	LTE Band 2_Ant0 (ENDC)	Front	0.267	0.177	0.087	0.124	0.248	0.248	0.69	0.69	0.60	0.60	0.64	0.64
		Back	0.529	0.364	0.406	0.153	0.596	0.596	1.49	1.49	1.53	1.53	1.28	1.28
	LTE Band 66_Ant0 (ENDC)	Front	0.246	0.177	0.087	0.124	0.248	0.248	0.67	0.67	0.58	0.58	0.62	0.62
		Back	0.527	0.364	0.406	0.153	0.596	0.596	1.49	1.49	1.53	1.53	1.28	1.28
	LTE Band 5_Ant0 (ENDC)	Front	0.257	0.177	0.087	0.124	0.248	0.248	0.68	0.68	0.59	0.59	0.63	0.63
		Back	0.526	0.364	0.406	0.153	0.596	0.596	1.49	1.49	1.53	1.53	1.28	1.28
	LTE Band 7_Ant1 (ENDC)	Front	0.393	0.177	0.087	0.124	0.248	0.248	0.82	0.82	0.73	0.73	0.77	0.77
		Back	0.567	0.364	0.406	0.153	0.596	0.596	1.53	1.53	1.57	1.57	1.32	1.32
	LTE Band 38_Ant1 (ENDC)	Front	0.417	0.177	0.087	0.124	0.248	0.248	0.84	0.84	0.75	0.75	0.79	0.79
		Back	0.582	0.364	0.406	0.153	0.596	0.596	1.54	1.54	1.58	1.58	1.33	1.33



WWAN Band		Exposure Position	1	3	4	5	9	10	1+3+9	1+3+10	1+4+9	1+4+10	1+5+9	1+5+10
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	Bluetooth Ant 6	N78_Ant 5	N78(HPUE)_Ant 5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 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)						
ENDC	LTE Band 2_Ant0 (ENDC)	Front	0.491	0.091	0.051	0.124	0.377	0.514	0.96	1.10	0.92	1.06	0.99	1.13
		Back	0.330	0.060	0.281	0.153	0.596	0.753	0.99	1.14	1.21	1.36	1.08	1.24
	LTE Band 66_Ant0 (ENDC)	Front	0.643	0.091	0.051	0.124	0.377	0.514	1.11	1.25	1.07	1.21	1.14	1.28
		Back	0.539	0.060	0.281	0.153	0.596	0.753	1.20	1.35	1.42	1.57	1.29	1.45
	LTE Band 5_Ant0 (ENDC)	Front	0.280	0.091	0.051	0.124	0.377	0.514	0.75	0.89	0.71	0.85	0.78	0.92
		Back	0.226	0.060	0.281	0.153	0.596	0.753	0.88	1.04	1.10	1.26	0.98	1.13
	LTE Band 7_Ant1 (ENDC)	Front	0.662	0.091	0.051	0.124	0.377	0.514	1.13	1.27	1.09	1.23	1.16	1.30
		Back	0.376	0.060	0.281	0.153	0.596	0.753	1.03	1.19	1.25	1.41	1.13	1.28
	LTE Band 38_Ant1 (ENDC)	Front	0.368	0.091	0.051	0.124	0.377	0.514	0.84	0.97	0.80	0.93	0.87	1.01
		Back	0.210	0.060	0.281	0.153	0.596	0.753	0.87	1.02	1.09	1.24	0.96	1.12

16.4 Product specific 10g SAR Exposure Conditions

WWAN Band		Exposure Position	1	3	6	1+3 Summed	1+6 Summed	Case No
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	10g SAR (W/kg)	10g SAR (W/kg)	
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)			
GSM	GSM850_Ant0	Front			0.318	0.00	0.32	
		Back	1.678	0.743	0.775	2.42	2.45	
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side				0.00	0.00	
	GSM1900_Ant0	Front	2.109		0.318	2.11	2.43	
		Back	3.049	0.743	0.775	3.79	3.82	
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side	2.675			2.68	2.68	
WCDMA	WCDMA V_Ant0	Front			0.318	0.00	0.32	
		Back	1.929	0.743	0.775	2.67	2.70	
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side				0.00	0.00	
	WCDMA IV_Ant0	Front	1.536		0.318	1.54	1.85	
		Back	3.524	0.743	0.775	4.27	4.30	Case 31/32
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side	3.509			3.51	3.51	
	WCDMA II_Ant0	Front	2.093		0.318	2.09	2.41	
		Back	3.281	0.743	0.775	4.02	4.06	Case 33/34
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side	3.195			3.20	3.20	
LTE	LTE Band 26_Ant0	Front			0.318	0.00	0.32	
		Back	2.096	0.743	0.775	2.84	2.87	
		Left side				0.00	0.00	
		Right side				0.00	0.00	



FCC SAR Test Report

Report No. : FA180409

		Top side			1.090	0.00	1.09	
		Bottom side				0.00	0.00	
	LTE Band 66_Ant0	Front	2.089		0.318	2.09	2.41	
		Back	3.113	0.743	0.775	3.86	3.89	
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side	3.376			3.38	3.38	
	LTE Band 2_Ant0	Front	1.822		0.318	1.82	2.14	
		Back	2.953	0.743	0.775	3.70	3.73	
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side	3.135			3.14	3.14	
	LTE Band 7_Ant1	Front	2.315		0.318	2.32	2.63	
		Back	3.346	0.743	0.775	4.09	4.12	Case 35/36
		Left side	2.343			2.34	2.34	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side	2.207			2.21	2.21	
	LTE Band 38_Ant1	Front	2.394		0.318	2.39	2.71	
		Back	3.134	0.743	0.775	3.88	3.91	
		Left side	2.211			2.21	2.21	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side	2.135			2.14	2.14	
	LTE Band 42_Ant5	Front			0.318	0.00	0.32	
		Back	2.236	0.743	0.775	2.98	3.01	
		Left side				0.00	0.00	
		Right side				0.00	0.00	
		Top side			1.090	0.00	1.09	
		Bottom side				0.00	0.00	

LTE Inter Band UL CA

WWAN Band		Exposure Position	1	3	4	6	1+3+4 Summed 10g SAR (W/kg)	1+3+6 Summed 10g SAR (W/kg)
			WWAN	LTE Band 7 Ant 4	2.4GHz WLAN Ant 2	5GHz WLAN Ant 6		
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
LTE	LTE Band 5_Ant0	Front		0.909		0.318	0.91	1.23
		Back	1.595	1.427	0.743	0.775	3.77	3.80
		Left side		0.750			0.75	0.75
		Right side					0.00	0.00
		Top side		1.404		1.090	1.40	2.49
		Bottom side					0.00	0.00

5G NR

WWAN Band		Exposure Position	1	3	4	6	7	1+3+6	1+4+6	1+3+7	1+4+7
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	N5_Ant 0	N66_Ant 0	Summed	Summed	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
ENDC	LTE Band 7_Ant4 (ENDC)	Front	0.909		0.318		1.032	0.91	1.23	1.94	2.26
		Back	1.427	0.743	0.775	1.530	1.537	3.70	3.73	3.71	3.74
		Left side	0.750					0.75	0.75	0.75	0.75
		Right side						0.00	0.00	0.00	0.00
		Top side	1.404		1.090			1.40	2.49	1.40	2.49
		Bottom side					1.499	0.00	0.00	1.50	1.50

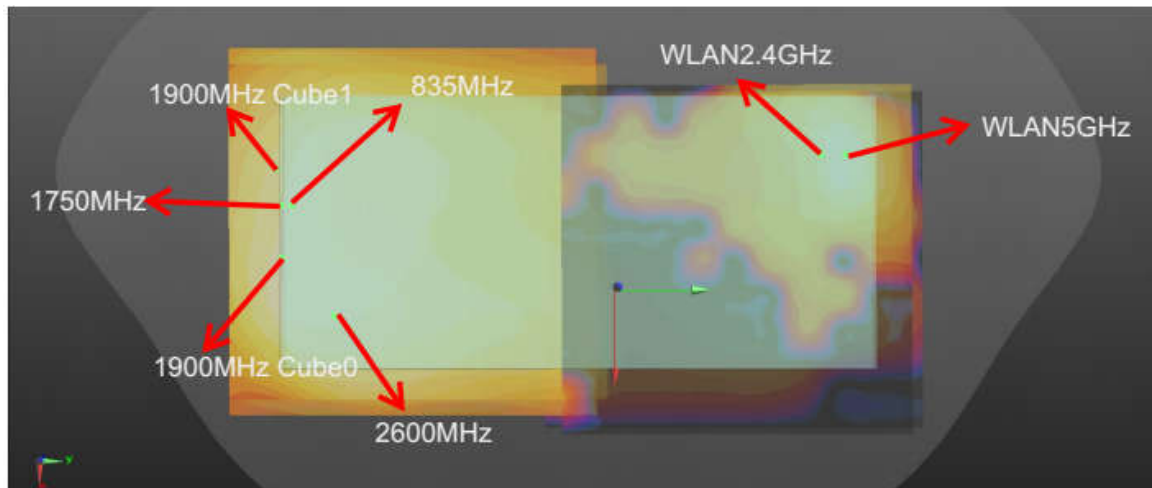
WWAN Band		Exposure Position	1	3	4	8	1+3+8	1+4+8
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	N7_Ant 4	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
ENDC	LTE Band 2_Ant0 (ENDC)	Front	0.894		0.318	1.329	2.22	2.54
		Back	1.457	0.743	0.775	1.545	3.75	3.78
		Left side				0.977	0.98	0.98
		Right side					0.00	0.00
		Top side			1.090	1.575	1.58	2.67
		Bottom side	1.577				1.58	1.58
	LTE Band 66_Ant0 (ENDC)	Front	0.951		0.318	1.329	2.28	2.60
		Back	1.450	0.743	0.775	1.545	3.74	3.77
		Left side				0.977	0.98	0.98
		Right side					0.00	0.00
		Top side			1.090	1.575	1.58	2.67
		Bottom side	2.050				2.05	2.05
	LTE Band 5_Ant0 (ENDC)	Front			0.318	1.329	1.33	1.65
		Back	1.595	0.743	0.775	1.545	3.88	3.92
		Left side				0.977	0.98	0.98
		Right side					0.00	0.00
		Top side			1.090	1.575	1.58	2.67
		Bottom side					0.00	0.00

WWAN Band		Exposure Position	1	3	4	9	10	1+3+9 Summed 10g SAR (W/kg)	1+3+10 Summed 10g SAR (W/kg)	1+4+9 Summed 10g SAR (W/kg)	1+4+10 Summed 10g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 6	5GHz WLAN Ant 6	N78_Ant 5	N78(HPUE)_Ant 5				
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)				
ENDC	LTE Band 2_Ant0 (ENDC)	Front	0.894		0.318	0.941	1.560	1.84	2.45	2.15	2.77
		Back	1.457	0.743	0.775	1.583	1.583	3.78	3.78	3.82	3.82
		Left side						0.00	0.00	0.00	0.00
		Right side				1.138	1.680	1.14	1.68	1.14	1.68
		Top side			1.090	1.410	1.419	1.41	1.42	2.50	2.51
		Bottom side	1.577					1.58	1.58	1.58	1.58
	LTE Band 66_Ant0 (ENDC)	Front	0.951		0.318	0.941	1.560	1.89	2.51	2.21	2.83
		Back	1.450	0.743	0.775	1.583	1.583	3.78	3.78	3.81	3.81
		Left side						0.00	0.00	0.00	0.00
		Right side				1.138	1.680	1.14	1.68	1.14	1.68
		Top side			1.090	1.410	1.419	1.41	1.42	2.50	2.51
		Bottom side	2.050					2.05	2.05	2.05	2.05
	LTE Band 5_Ant0 (ENDC)	Front			0.318	0.941	1.560	0.94	1.56	1.26	1.88
		Back	1.595	0.743	0.775	1.583	1.583	3.92	3.92	3.95	3.95
		Left side						0.00	0.00	0.00	0.00
		Right side				1.138	1.680	1.14	1.68	1.14	1.68
		Top side			1.090	1.410	1.419	1.41	1.42	2.50	2.51
		Bottom side						0.00	0.00	0.00	0.00
	LTE Band 7_Ant1 (ENDC)	Front	1.546		0.318	0.941	1.560	2.49	3.11	2.81	3.42
		Back	1.389	0.743	0.775	1.583	1.583	3.72	3.72	3.75	3.75
		Left side	1.074					1.07	1.07	1.07	1.07
		Right side				1.138	1.680	1.14	1.68	1.14	1.68
		Top side			1.090	1.410	1.419	1.41	1.42	2.50	2.51
		Bottom side	1.031					1.03	1.03	1.03	1.03
	LTE Band 38_Ant1 (ENDC)	Front	1.011		0.318	0.941	1.560	1.95	2.57	2.27	2.89
		Back	1.575	0.743	0.775	1.583	1.583	3.90	3.90	3.93	3.93
		Left side	1.071					1.07	1.07	1.07	1.07
		Right side				1.138	1.680	1.14	1.68	1.14	1.68
		Top side			1.090	1.410	1.419	1.41	1.42	2.50	2.51
		Bottom side	1.027					1.03	1.03	1.03	1.03

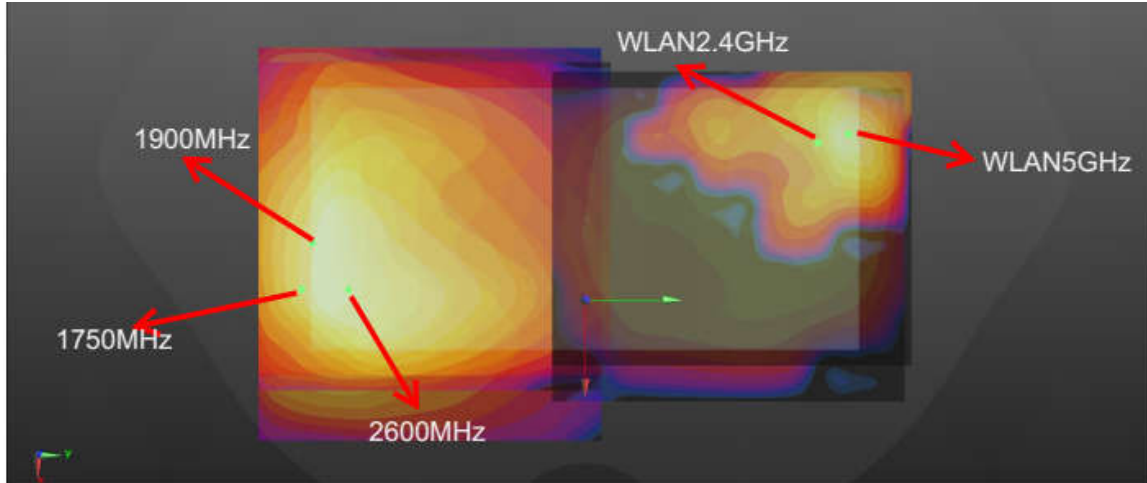
16.5 SPLSR Evaluation and Analysis

General Note:

1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.



WWAN+WLAN2.4GHz/WWAN+ WLAN5GHz for Back_5mm



WWAN+WLAN2.4GHz/WWAN+ WLAN5GHz for Back_0mm

Hotspot/Body-worn (WWAN+2.4GHz)											
Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	GSM850	Back	1.305	5mm	-0.0245	-0.082	-0.211	152.3	1.67	0.01	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 3	GSM1900_cube0	Back	1.328	5mm	-0.0095	-0.085	-0.208	157.6	1.69	0.01	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
	GSM1900_cube1	Back	1.08	5mm	-0.035	-0.0865	-0.208	155.9	1.44	0.01	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 5	WCDMA B5	Back	1.391	5mm	-0.0245	-0.082	-0.21	152.3	1.76	0.02	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 7	WCDMA B4	Back	1.424	5mm	-0.021	-0.088	-0.206	158.6	1.79	0.02	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 9	WCDMA B2	Back	1.394	5mm	-0.007	-0.0925	-0.208	165.5	1.76	0.01	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 11	LTE B26	Back	1.321	5mm	-0.0325	-0.082	-0.211	151.6	1.69	0.01	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 13	LTE B66	Back	1.234	5mm	-0.0405	-0.085	-0.208	154.2	1.60	0.01	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 15	LTE B2	Back	1.355	5mm	-0.0175	-0.0835	-0.208	154.7	1.72	0.01	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 17	LTE B7	Back	1.434	5mm	-0.001	-0.07	-0.208	145.1	1.80	0.02	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				
Case 19	LTE B38	Back	1.365	5mm	0.0074	-0.0712	-0.207	148.8	1.73	0.02	Not required
	WLAN2.4GHz		0.364	5mm	-0.042	0.0692	-0.206				

Hotspot (WWAN+5GHz)											
Case 2	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM850	Back	1.305	5mm	-0.0245	-0.082	-0.211	158.8	1.70	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 4	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900_cube0	Back	1.328	5mm	-0.0095	-0.085	-0.208	163.9	1.72	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
	GSM1900_cube1	Back	1.08	5mm	-0.035	-0.0865	-0.208	162.6	1.47	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA B5	Back	1.391	5mm	-0.0245	-0.082	-0.21	158.8	1.78	0.02	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA B4	Back	1.424	5mm	-0.021	-0.088	-0.206	165.1	1.82	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA B2	Back	1.394	5mm	-0.007	-0.0925	-0.208	171.7	1.79	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE B26	Back	1.321	5mm	-0.0325	-0.082	-0.211	158.2	1.71	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE B66	Back	1.234	5mm	-0.0405	-0.085	-0.208	161.0	1.63	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE B2	Back	1.355	5mm	-0.0175	-0.0835	-0.208	161.1	1.75	0.01	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 18	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE B7	Back	1.434	5mm	-0.001	-0.07	-0.208	151.1	1.83	0.02	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				
Case 20	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE B38	Back	1.365	5mm	0.0074	-0.0712	-0.207	154.6	1.76	0.02	Not required
	WLAN5GHz		0.393	5mm	-0.04	0.076	-0.207				

Body worn (WWAN+5GHz)											
Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 21	GSM850	Back	1.305	5mm	-0.0245	-0.082	-0.211	160.2	1.71	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 22	GSM1900 Cube 0	Back	1.328	5mm	-0.0095	-0.085	-0.208	165.6	1.73	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
	GSM1900 Cube 1	Back	1.08	5mm	-0.035	-0.0865	-0.208	163.8	1.49	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 23	WCDMA B5	Back	1.391	5mm	-0.0245	-0.082	-0.21	160.2	1.80	0.02	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 24	WCDMA B4	Back	1.424	5mm	-0.021	-0.088	-0.206	166.6	1.83	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 25	WCDMA B2	Back	1.394	5mm	-0.007	-0.0925	-0.208	173.5	1.80	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 26	LTE B26	Back	1.321	5mm	-0.0325	-0.082	-0.211	159.5	1.73	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 27	LTE B66	Back	1.234	5mm	-0.0405	-0.085	-0.208	162.0	1.64	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 28	LTE B2	Back	1.355	5mm	-0.0175	-0.0835	-0.208	162.7	1.76	0.01	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 29	LTE B7	Back	1.434	5mm	-0.001	-0.07	-0.208	153.2	1.84	0.02	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				
Case 30	LTE B38	Back	1.365	5mm	0.0074	-0.0712	-0.207	156.9	1.77	0.02	Not required
	WLAN5GHz		0.406	5mm	-0.044	0.077	-0.207				

Product specific 10g (WWAN+2.4GHz)											
Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
31	WCDMA B4	Back	3.524	0mm	-0.0035	-0.0865	-0.206	163.0	4.27	0.05	Not required
	WLAN2.4GHz		0.743	0mm	-0.0432	0.0716	-0.206				
Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
33	WCDMA B2	Back	3.281	0mm	-0.0095	-0.0835	-0.21	158.8	4.02	0.05	Not required
	WLAN2.4GHz		0.743	0mm	-0.0432	0.0716	-0.206				
Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
35	LTE B7	Back	3.346	0mm	-0.0034	-0.0724	-0.208	149.4	4.09	0.06	Not required
	WLAN2.4GHz		0.743	0mm	-0.0432	0.0716	-0.206				

Product specific 10g (WWAN+5GHz)											
Case	Band	Position	3	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
32	WCDMA B4	Back	3.524	0mm	-0.0035	-0.0865	-0.206	174.3	4.30	0.05	Not required
	WLAN5GHz		0.775	0mm	-0.048	0.082	-0.21				
Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
34	WCDMA B2	Back	3.281	0mm	-0.0095	-0.0835	-0.21	169.9	4.06	0.05	Not required
	WLAN5GHz		0.775	0mm	-0.048	0.082	-0.21				
Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
36	LTE B7	Back	3.346	0mm	-0.0034	-0.0724	-0.208	160.7	4.12	0.05	Not required
	WLAN5GHz		0.775	0mm	-0.048	0.082	-0.21				

Test Engineer : Changlin Huang, Bin He, Mengming Dai

17. 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 $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. 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.

18. 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.

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



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3-SN:1099

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

Medium: HSL_750_210831 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.886 \text{ S/m}$; $\epsilon_r = 41.534$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.47, 10.47, 10.47); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.52 W/kg

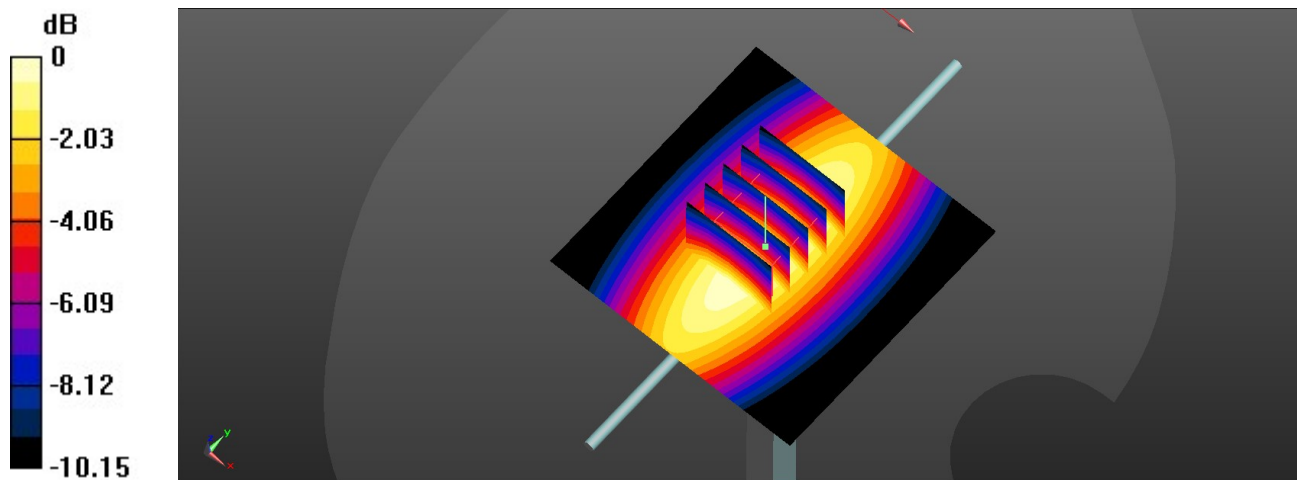
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 66.81 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.96 W/kg

SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.37 W/kg

Maximum value of SAR (measured) = 3.49 W/kg



0 dB = 3.49 W/kg

System Check_Head_835MHz

DUT: D835V2-SN:4d162

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

Medium: HSL_835_210901 Medium parameters used: $f = 835$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 42.674$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.19, 10.19, 10.19); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.12 W/kg

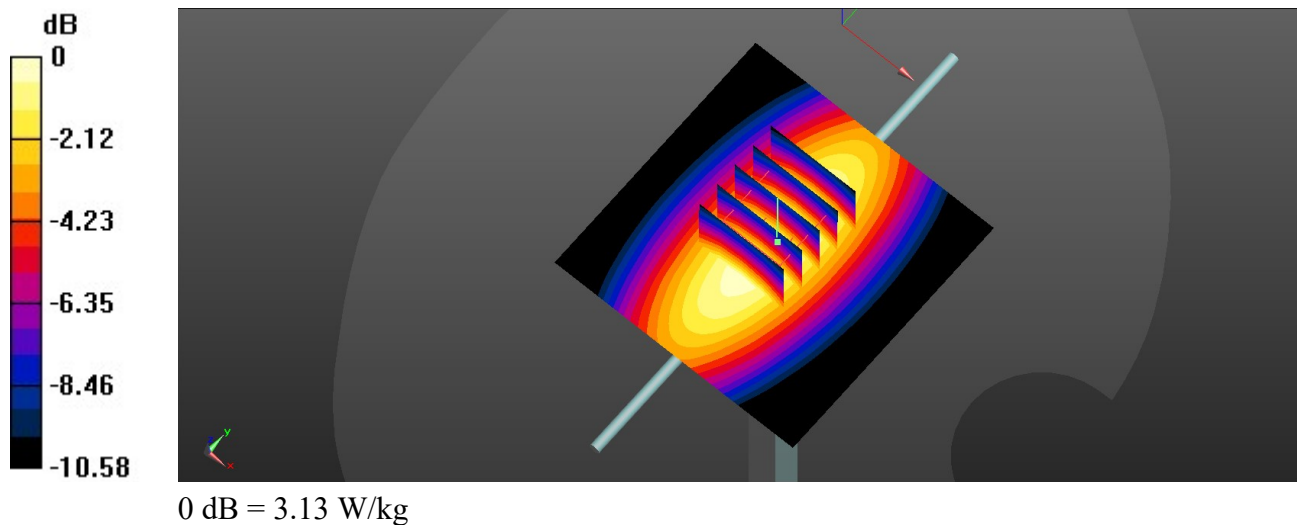
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 61.04 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 3.13 W/kg



System Check_Head_835MHz

DUT: D835V2-SN:4d162

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

Medium: HSL_835_210910 Medium parameters used: $f = 835$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 41.605$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.19, 10.19, 10.19); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.90 W/kg

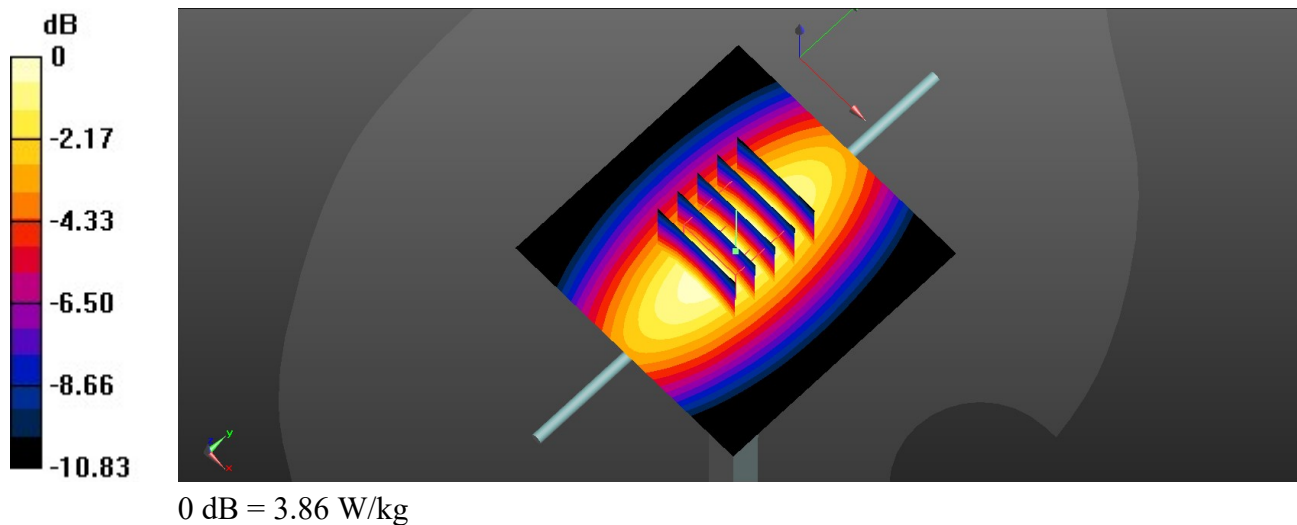
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 69.21 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.39 W/kg

SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.67 W/kg

Maximum value of SAR (measured) = 3.86 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1090

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

Medium: HSL_1750_210903 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.402$ S/m; $\epsilon_r = 41.374$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.73, 8.73, 8.73); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 14.4 W/kg

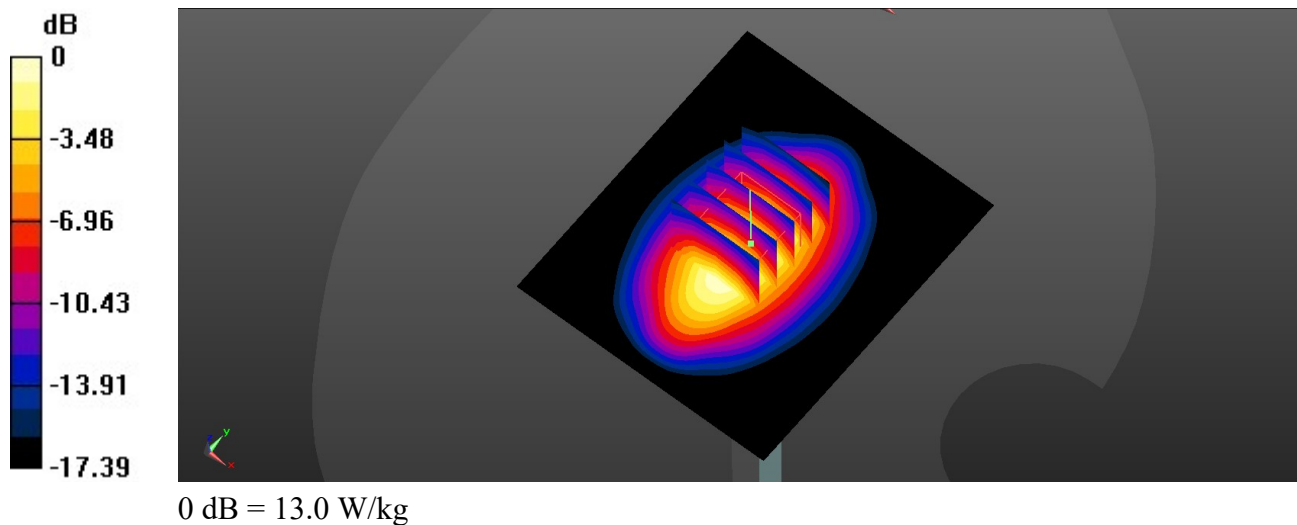
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 104.8 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 8.92 W/kg; SAR(10 g) = 4.81 W/kg

Maximum value of SAR (measured) = 13.0 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1090

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

Medium: HSL_1750_210912 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.73, 8.73, 8.73); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 17.1 W/kg

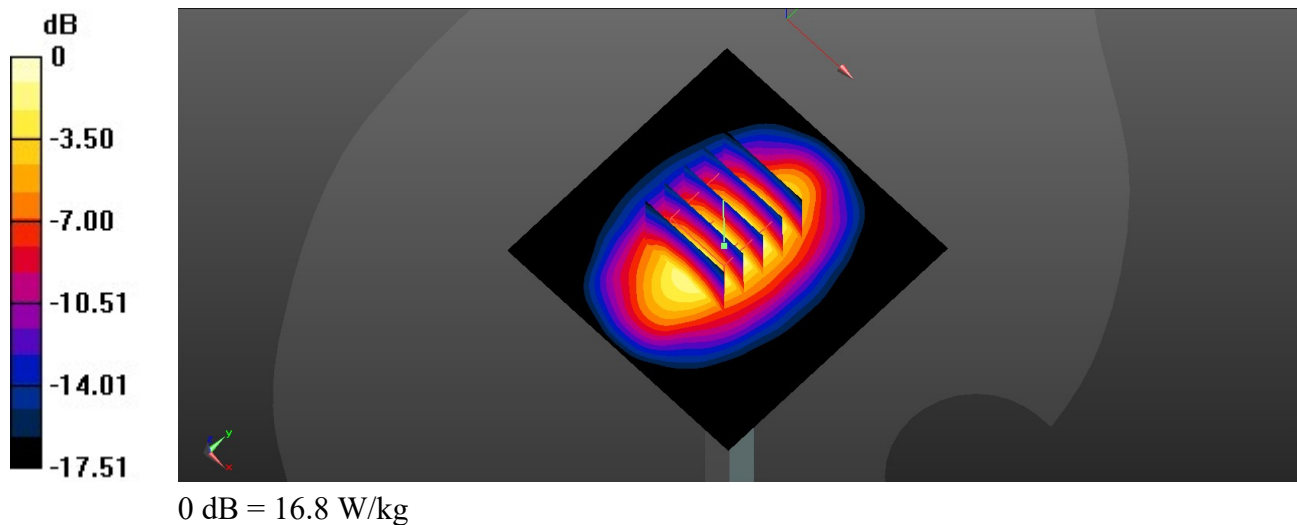
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 113.0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 20.4 W/kg

SAR(1 g) = 9.5 W/kg; SAR(10 g) = 4.87 W/kg

Maximum value of SAR (measured) = 16.8 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1090

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

Medium: HSL_1750_210928 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 39.895$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.73, 8.73, 8.73); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 17.1 W/kg

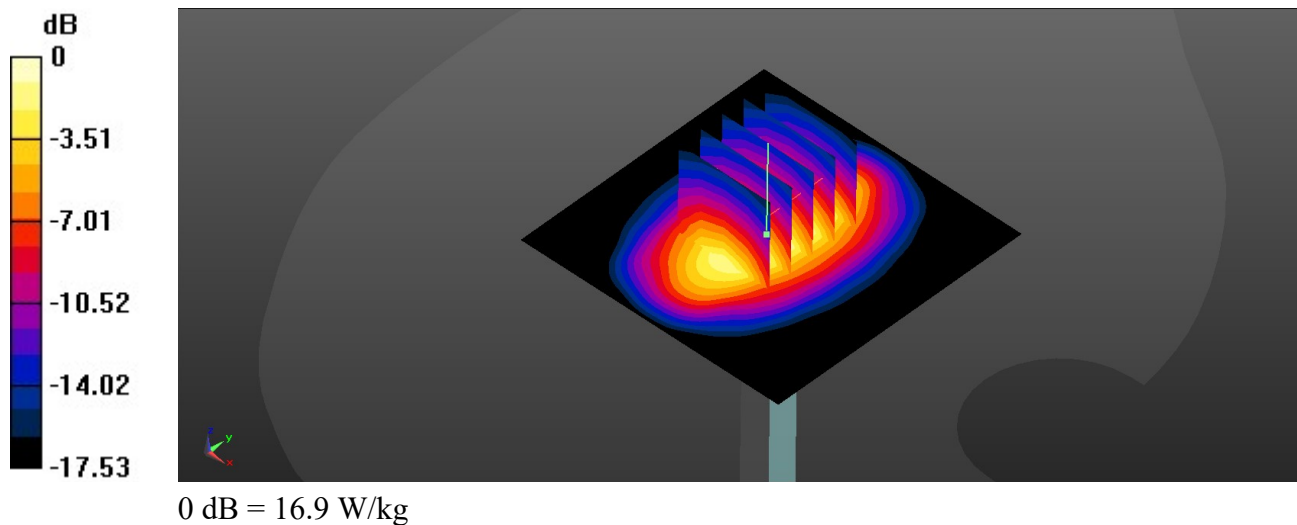
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 113.0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 20.4 W/kg

SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.11 W/kg

Maximum value of SAR (measured) = 16.9 W/kg



System Check_Head_1900MHz

DUT: D1900V2-SN:5d182

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

Medium: HSL_1900_210902 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.461$ S/m; $\epsilon_r = 39.099$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.33, 8.33, 8.33); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 15.5 W/kg

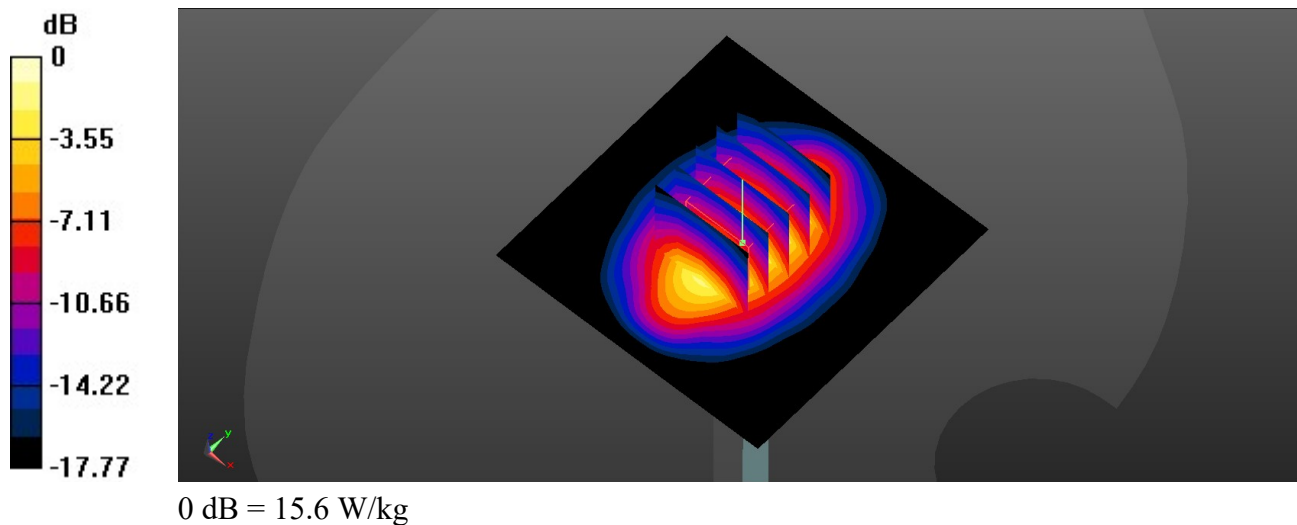
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 107.6 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 9.93 W/kg; SAR(10 g) = 5.14 W/kg

Maximum value of SAR (measured) = 15.6 W/kg



System Check_Head_1900MHz

DUT: D1900V2-SN:5d182

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

Medium: HSL_1900_210915 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.451$ S/m; $\epsilon_r = 39.162$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.33, 8.33, 8.33); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 20.0 W/kg

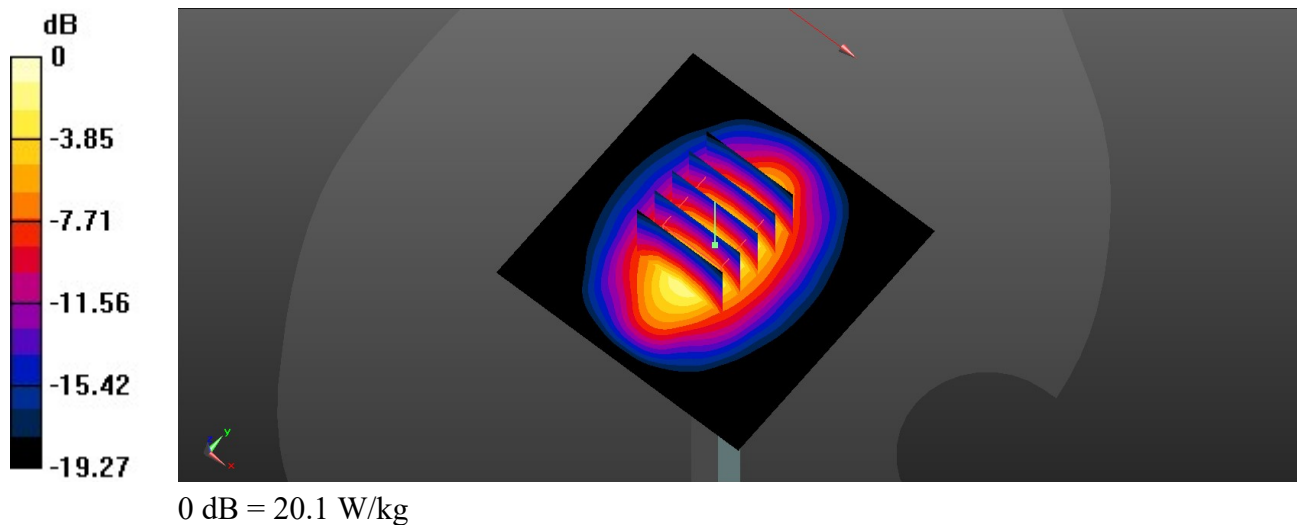
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 120.7 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 24.6 W/kg

SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.29 W/kg

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



System Check_Head_2450MHz

DUT: D2450V2-SN:924

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

Medium: HSL_2450_210904 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.857$ S/m; $\epsilon_r = 37.67$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.67, 7.67, 7.67); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 25.7 W/kg

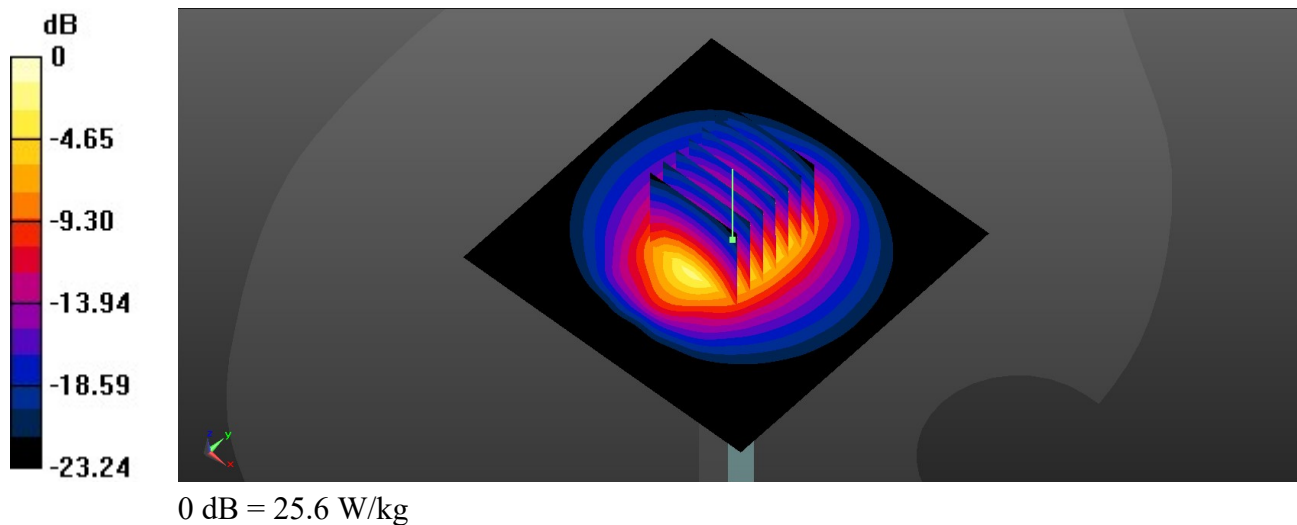
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 122.1 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.83 W/kg

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



System Check_Head_2450MHz

DUT: D2450V2-SN:924

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

Medium: HSL_2450_210916 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.825$ S/m; $\epsilon_r = 39.664$;
 $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.67, 7.67, 7.67); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

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

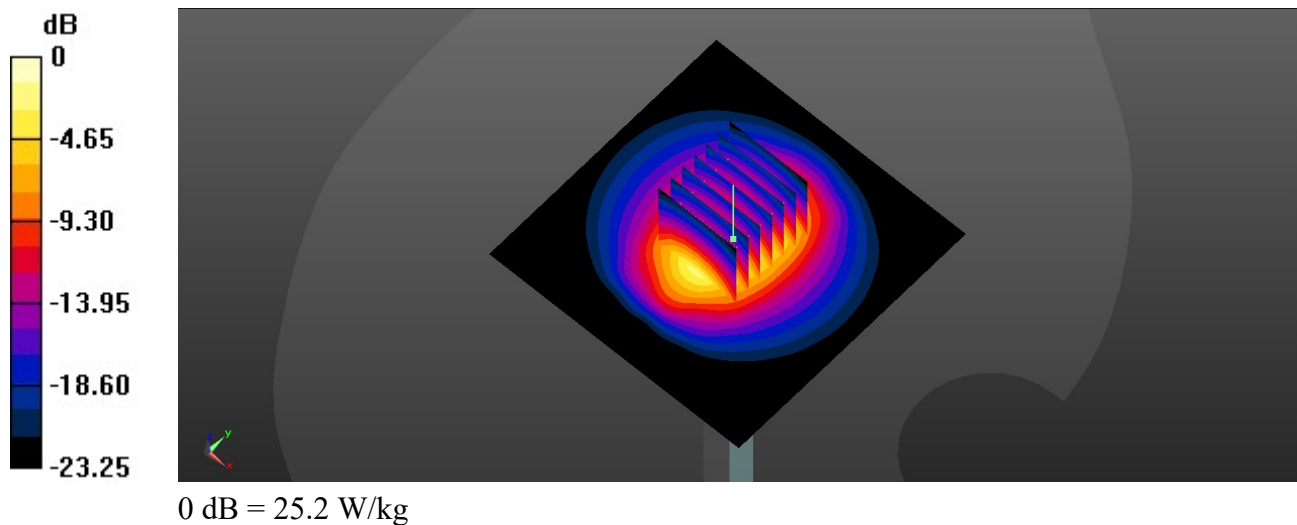
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 122.1 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.99 W/kg

Maximum value of SAR (measured) = 25.2 W/kg



System Check_Head_2600MHz

DUT: D2600V2-SN:1070

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

Medium: HSL_2600_210905 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.048$ S/m; $\epsilon_r = 37.284$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.47, 7.47, 7.47); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 29.8 W/kg

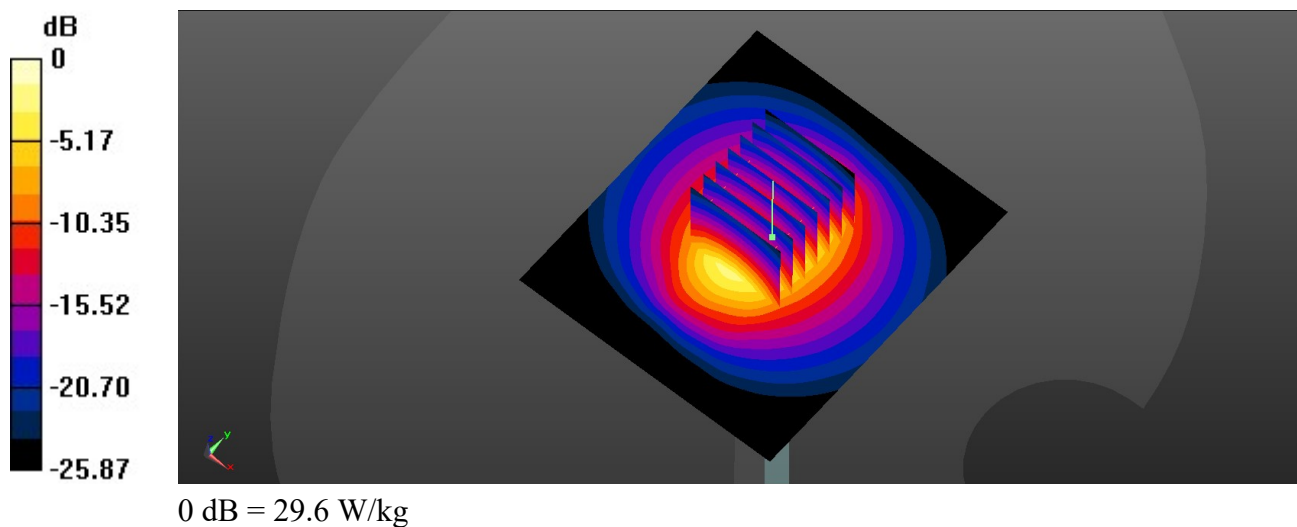
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 124.9 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 38.3 W/kg

SAR(1 g) = 15 W/kg; SAR(10 g) = 6.59 W/kg

Maximum value of SAR (measured) = 29.6 W/kg



System Check_Head_2600MHz

DUT: D2600V2-SN:1070

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

Medium: HSL_2600_210913 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.056$ S/m; $\epsilon_r = 37.589$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(7.47, 7.47, 7.47); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 29.7 W/kg

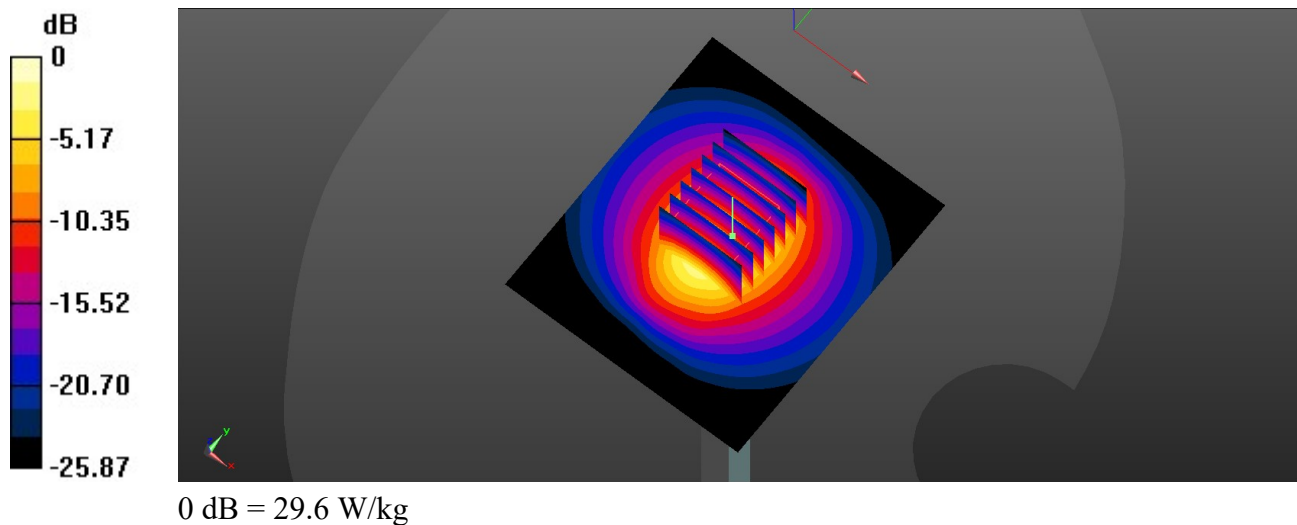
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 124.9 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 38.3 W/kg

SAR(1 g) = 15.3 W/kg; SAR(10 g) = 7.09 W/kg

Maximum value of SAR (measured) = 29.6 W/kg



System Check_Head_3500MHz

DUT: D3500V2-SN:1076

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

Medium: HSL_3500_210905 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.813$ S/m; $\epsilon_r = 39.758$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(6.62, 6.62, 6.62); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 12.6 W/kg

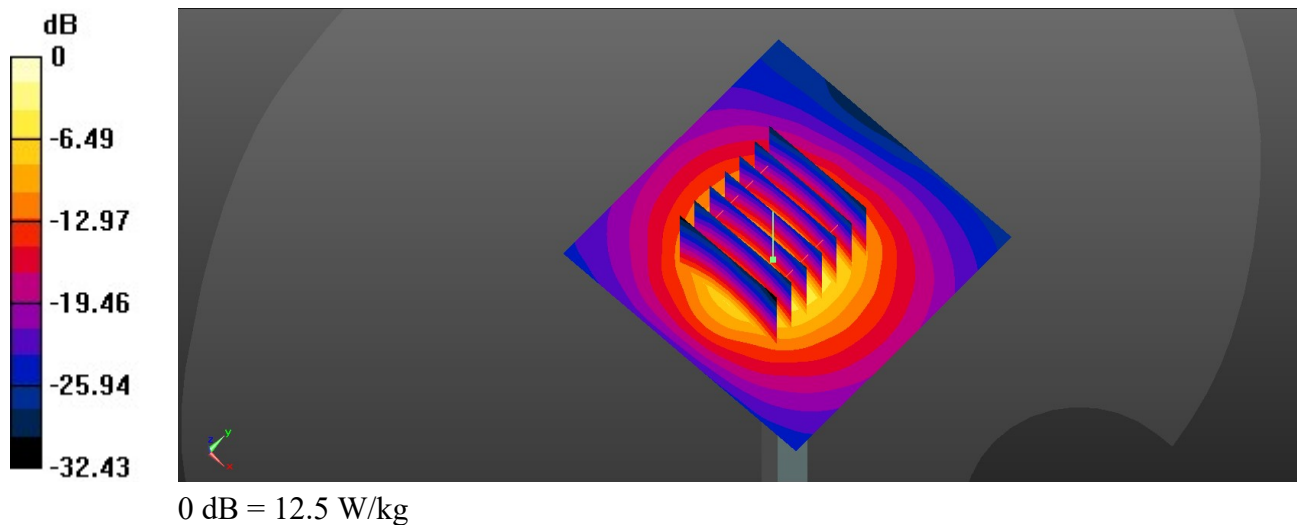
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm

Reference Value = 69.99 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 6.33 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 12.5 W/kg



System Check_Head_3500MHz

DUT: D3500V2-SN:1076

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

Medium: HSL_3500_210919 Medium parameters used: $f = 3500$ MHz; $\sigma = 3.035$ S/m; $\epsilon_r = 36.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(6.62, 6.62, 6.62); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 13.6 W/kg

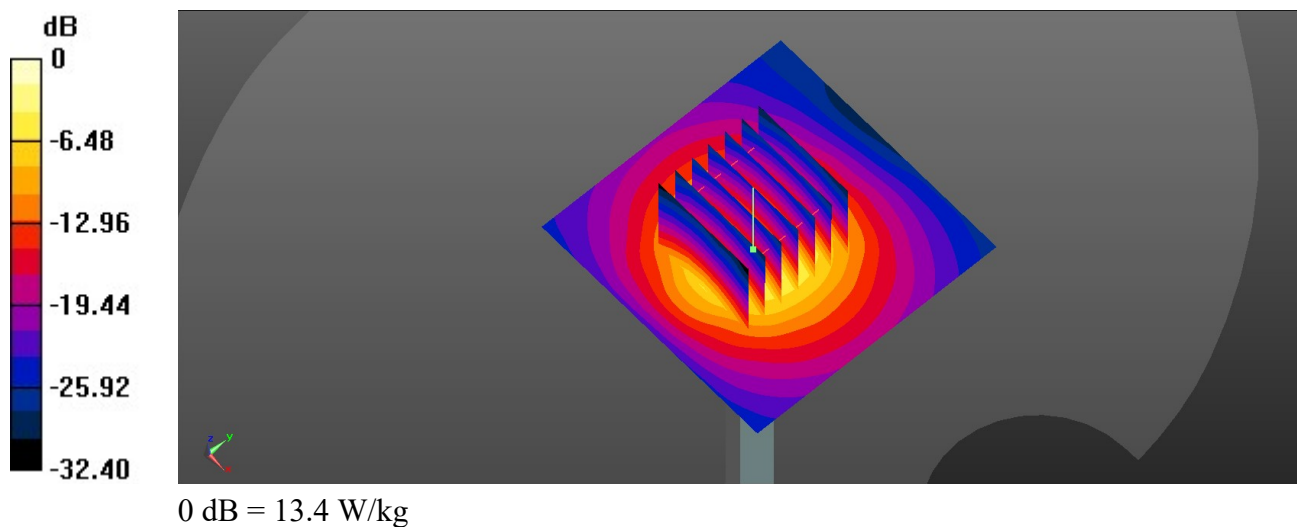
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=1.4$ mm

Reference Value = 69.99 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 6.61 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 13.4 W/kg



System Check_Head_5250MHz

DUT: D5GHzV2-SN:1113

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

Medium: HSL_5250_210906 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.725$ S/m; $\epsilon_r = 36.522$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(5.17, 5.17, 5.17); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Maximum value of SAR (interpolated) = 16.2 W/kg

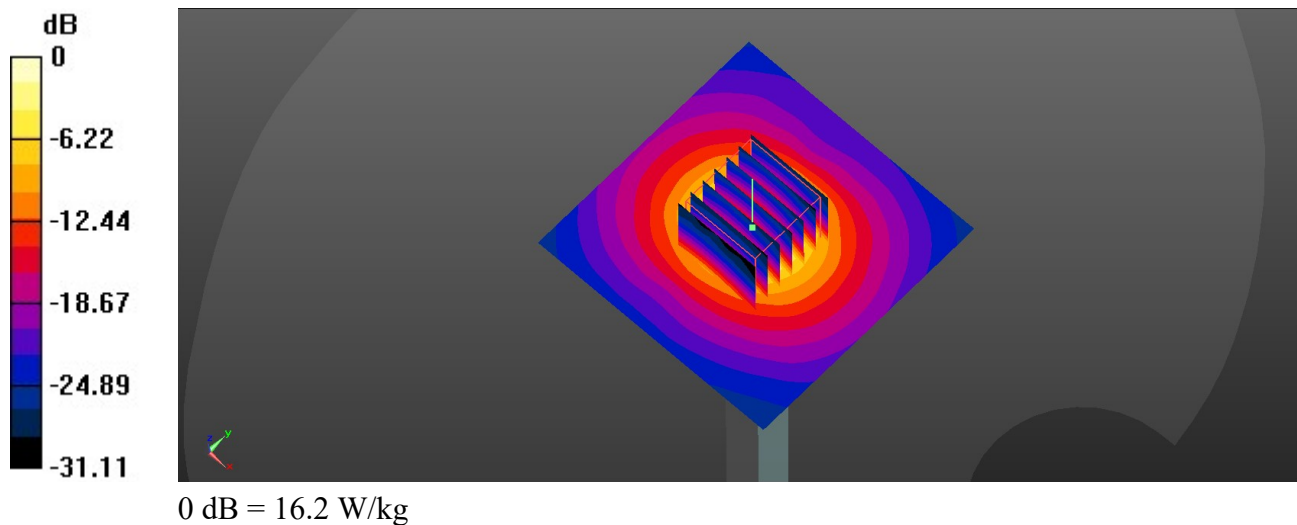
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 65.32 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.33 W/kg

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



System Check_Head_5250MHz

DUT: D5GHzV2-SN:1145

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

Medium: HSL_5250_210922 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.597$ S/m; $\epsilon_r = 36.241$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(5.17, 5.17, 5.17); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1664; Calibrated: 2021/3/1
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

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

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 65.32 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.39 W/kg

Maximum value of SAR (measured) = 15.5 W/kg

