



FCC SAR Test Report

Report No. : FA151701

FR1 n78-PC2	100M	BPSK	1	137	Left Side	0mm	Ant 3	DSI 6	Standalone	633334	3500.01	18.08	19.00	1.236	0.05	1.580	1.953
FR1 n78-PC2	100M	BPSK	1	137	Top Side	0mm	Ant 3	DSI 4	Full	633334	3500.01	26.21	27.00	1.199	0.1	1.270	1.523
FR1 n78-PC2	100M	BPSK	135	69	Front	0mm	Ant 3	DSI 4	Full	633334	3500.01	26.02	27.00	1.253	0.05	1.370	1.717
FR1 n78-PC2	100M	BPSK	135	69	Back	0mm	Ant 3	DSI 6	Standalone	633334	3500.01	18.04	19.00	1.247	0.08	2.280	2.844
FR1 n78-PC2	100M	BPSK	135	69	Left Side	0mm	Ant 3	DSI 6	Standalone	633334	3500.01	18.04	19.00	1.247	-0.08	1.600	1.996
FR1 n78-PC2	100M	BPSK	135	69	Top Side	0mm	Ant 3	DSI 4	Full	633334	3500.01	26.02	27.00	1.253	0.05	1.280	1.604
FR1 n78-PC2	100M	BPSK	135	69	Back	15mm	Ant 3	DSI 4	Full	633334	3500.01	26.02	27.00	1.253	0.02	0.211	0.264
FR1 n78-PC2	100M	BPSK	135	69	Left Side	6mm	Ant 3	DSI 4	Full	633334	3500.01	26.02	27.00	1.253	0.1	0.829	1.039
FR1 n78-PC2	100M	BPSK	270	0	Back	0mm	Ant 3	DSI 6	Standalone	633334	3500.01	18.00	19.00	1.259	0.03	2.210	2.782
FR1 n78-PC2	100M	BPSK	1	137	Front	0mm	Ant 3	DSI 4	Full	633334	3500.01	26.21	27.00	1.199	0.1	1.400	1.679
FR1 n78-PC2	100M	BPSK	1	137	Back	0mm	Ant 3	DSI 6	Simultaneous	633334	3500.01	17.60	18.50	1.230	0.17	2.070	2.547
FR1 n78-PC2	100M	BPSK	1	137	Left Side	0mm	Ant 3	DSI 6	Simultaneous	633334	3500.01	17.60	18.50	1.230	-0.01	1.290	1.587
FR1 n78-PC2	100M	BPSK	1	137	Top Side	0mm	Ant 3	DSI 4	Full	633334	3500.01	26.21	27.00	1.199	0.06	1.270	1.523
FR1 n78-PC2	100M	BPSK	135	69	Front	0mm	Ant 3	DSI 4	Full	633334	3500.01	26.02	27.00	1.253	-0.07	1.370	1.717
FR1 n78-PC2	100M	BPSK	135	69	Back	0mm	Ant 3	DSI 6	Simultaneous	633334	3500.01	17.56	18.50	1.242	0.04	2.130	2.645
FR1 n78-PC2	100M	BPSK	135	69	Left Side	0mm	Ant 3	DSI 6	Simultaneous	633334	3500.01	17.56	18.50	1.242	0.01	1.380	1.713
FR1 n78-PC2	100M	BPSK	135	69	Top Side	0mm	Ant 3	DSI 4	Full	633334	3500.01	26.02	27.00	1.253	0.04	1.280	1.604
FR1 n78-PC2	100M	BPSK	270	0	Back	0mm	Ant 3	DSI 6	Simultaneous	633334	3500.01	17.52	18.50	1.253	-0.14	2.040	2.556

<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)
87	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 2+4	Full	11	2462	21.31	22.50	1.314	97.82	1.022	0.07	0.750	1.007

<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)
88	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 4+12	Full	40	5200	21.18	22.00	1.208	97.95	1.021	-0.14	1.110	1.369
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+12	Simultaneous	46	5230	20.35	21.50	1.304	100	1.000	0.07	0.885	1.154
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 4+12	Full	52	5260	20.87	22.00	1.296	97.95	1.021	0.13	0.271	0.359
89	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 4+12	Full	52	5260	20.87	22.00	1.296	97.95	1.021	-0.05	0.902	1.193
	WLAN5.3GHz	802.11a 6Mbps	Left Side	0mm	Ant 4+12	Full	52	5260	20.87	22.00	1.296	97.95	1.021	0.06	0.071	0.094
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 4+12	Full	52	5260	20.87	22.00	1.296	97.95	1.021	0.12	0.033	0.044
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 4+12	Full	52	5260	20.87	22.00	1.296	97.95	1.021	0.16	0.193	0.255
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 4+12	Full	132	5660	20.45	21.50	1.274	97.95	1.021	0.05	0.317	0.412
90	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 4+12	Full	132	5660	20.45	21.50	1.274	97.95	1.021	0.11	1.790	2.327
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4+12	Full	132	5660	20.45	21.50	1.274	97.95	1.021	-0.15	0.075	0.098
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4+12	Full	132	5660	20.45	21.50	1.274	97.95	1.021	0.03	0.048	0.062
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4+12	Full	132	5660	20.45	21.50	1.274	97.95	1.021	0.03	0.264	0.343
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 4+12	Full	100	5500	20.33	21.50	1.310	97.95	1.021	-0.12	1.550	2.074
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+12	Simultaneous	106	5530	16.21	17.00	1.199	100	1.000	-0.13	0.241	0.289
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+12	Simultaneous	106	5530	16.21	17.00	1.199	100	1.000	-0.17	0.891	1.069
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+12	Simultaneous	106	5530	16.21	17.00	1.199	100	1.000	0.11	0.056	0.067
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+12	Simultaneous	106	5530	16.21	17.00	1.199	100	1.000	0.14	0.019	0.023
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+12	Simultaneous	106	5530	16.21	17.00	1.199	100	1.000	0.09	0.152	0.182
91	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 4+12	Full	157	5785	20.55	21.50	1.245	97.95	1.021	0.02	0.816	1.037

**<WLAN6G 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)	Measured APD 4cm^2 (W/m^2)
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 4+12	Full	15	6025	15.88	16.50	1.153	100	1.000	-0.12	0.007	0.008	0.166
92	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 4+12	Full	15	6025	15.88	16.50	1.153	100	1.000	-0.15	0.035	0.040	0.849
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 4+12	Full	15	6025	15.88	16.50	1.153	100	1.000	0.05	0.001	0.001	0.03
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 4+12	Full	15	6025	15.88	16.50	1.153	100	1.000	0.09	0.004	0.005	0.109
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 4+12	Full	15	6025	15.88	16.50	1.153	100	1.000	0.18	0.014	0.016	0.359



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	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	LTE Band 12	10M	QPSK	1	0		Left Cheek	0mm	Ant 1		DSI 2	Full	23095	707.5	22.62	24.00	1.374		1.000	-0.14	0.896	1	1.231
2nd	LTE Band 12	10M	QPSK	1	0		Left Cheek	0mm	Ant 1		DSI 2	Full	23095	707.5	22.62	24.00	1.374		1.000	0.07	0.871	1.029	1.197
1st	LTE Band 42	20M	QPSK	1	99		Right Cheek	0mm	Ant 3		DSI 2	Standalone	42190	3460	18.91	20.00	1.285	62.9	1.006	0.17	0.963	1	1.245
2nd	LTE Band 42	20M	QPSK	1	99		Right Cheek	0mm	Ant 3		DSI 2	Standalone	42190	3460	18.91	20.00	1.285	62.9	1.006	0.09	0.951	1.013	1.230
1st	WLAN2.4GHz					802.11b 1Mbps	Right Cheek	0mm	Ant 2+4			Standalone	6	2437	20.18	21.50	1.355	97.82	1.022	-0.1	0.958	1	1.327
2nd	WLAN2.4GHz					802.11b 1Mbps	Right Cheek	0mm	Ant 2+4			Standalone	6	2437	20.18	21.50	1.355	97.82	1.022	0.09	0.931	1.029	1.289
1st	WLAN5.5GHz					802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+12			Standalone	102	5510	18.62	19.50	1.225	100	1.000	0.02	0.885	1	1.084
2nd	WLAN5.5GHz					802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+12			Standalone	102	5510	18.62	19.50	1.225	100	1.000	0.04	0.852	1.039	1.043
1st	WCDMA V					RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Standalone	4233	846.6	22.22	23.00	1.197		1.000	-0.05	1.050	1	1.257
2nd	WCDMA V					RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Standalone	4233	846.6	22.22	23.00	1.197		1.000	0.08	1.010	1.040	1.209
1st	FR1 n66	40M	BPSK	1	1		Bottom Side	5mm	Ant 0	-	DSI 3	Standalone	349000	1745	16.46	17.50	1.271		1.000	0.04	0.941	1	1.196
2nd	FR1 n66	40M	BPSK	1	1		Bottom Side	5mm	Ant 0	-	DSI 3	Standalone	349000	1745	16.46	17.50	1.271		1.000	0.09	0.914	1.030	1.161
1st	FR1 n7	40M	BPSK	1	108		Bottom Side	5mm	Ant 0	-	DSI 3	Standalone	504000	2520	15.53	16.50	1.250		1.000	0.17	0.970	1	1.213
2nd	FR1 n7	40M	BPSK	1	108		Bottom Side	5mm	Ant 0	-	DSI 3	Standalone	504000	2520	15.53	16.50	1.250		1.000	0.12	0.957	1.014	1.196
1st	WCDMA V					RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Standalone	4233	846.6	22.22	23.00	1.197		1.000	-0.05	1.050	1	1.257
2nd	WCDMA V					RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Standalone	4233	846.6	22.22	23.00	1.197		1.000	0.08	1.010	1.040	1.209
1st	WCDMA II					RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Standalone	9400	1880	16.48	17.50	1.265		1.000	0.18	0.941	1	1.190
2nd	WCDMA II					RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	Standalone	9400	1880	16.48	17.50	1.265		1.000	0.04	0.917	1.026	1.160
1st	WLAN5.3GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 4+12	-		Standalone	58	5290	18.41	19.50	1.285	100	1.000	-0.06	0.815	1	1.048
2nd	WLAN5.3GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 4+12	-		Standalone	58	5290	18.41	19.50	1.285	100	1.000	0.17	0.798	1.021	1.026
1st	WLAN5.8GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 4+12	-		Standalone	155	5775	17.35	18.00	1.161	100	1.000	0.06	0.859	1	0.998
2nd	WLAN5.8GHz					802.11ac-VHT80 MCS0	Back	5mm	Ant 4+12	-		Standalone	155	5775	17.35	18.00	1.161	100	1.000	0.02	0.842	1.020	0.978

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up 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 0	DSI 4	Full	4233	846.6	24.29	25.00	1.178	0.02	2.470	1	2.909
2nd	WCDMA V					RMC 12.2Kbps	Back	0mm	Ant 0	DSI 4	Full	4233	846.6	24.29	25.00	1.178	0.08	2.390	1.033	2.814
1st	WCDMA II					RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Standalone	9400	1880	19.72	21.00	1.343	-0.18	2.160	1	2.900
2nd	WCDMA II					RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	Standalone	9400	1880	19.72	21.00	1.343	-0.18	2.080	1.038	2.793
1st	LTE Band 7	20M	QPSK	1	99		Back	0mm	Ant 0	DSI 6	Full	21350	2560	23.34	24.00	1.164	-0.05	2.530	1	2.945
2nd	LTE Band 7	20M	QPSK	1	99		Back	0mm	Ant 0	DSI 6	Full	21350	2560	23.34	24.00	1.164	-0.05	2.460	1.028	2.864
1st	FR1 n66	40M	BPSK	108	54		Back	0mm	Ant 0	DSI 6	Standalone	346000	1730	21.10	22.00	1.230	0.04	2.370	1	2.916
2nd	FR1 n66	40M	BPSK	108	54		Back	0mm	Ant 0	DSI 6	Standalone	346000	1730	21.10	22.00	1.230	-0.14	2.310	1.026	2.842
1st	FR1 n78-PC3	100M	BPSK	135	69		Back	0mm	Ant 3	DSI 6	Standalone	633334	3500.01	18.04	19.00	1.247	0.08	2.280	1	2.844
2nd	FR1 n78-PC3	100M	BPSK	135	69		Back	0mm	Ant 3	DSI 6	Standalone	633334	3500.01	18.04	19.00	1.247	0.03	2.210	1.032	2.757

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, 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.

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

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.
- WIFI 6E can transmit simultaneously with Bluetooth.
- 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/ WLAN6E and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz /WLAN6E and WLAN 2.4GHz 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.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{separation distance, mm})$, 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.
 - 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.
 - The SPLSR calculated results please refer to section 17.6.

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, LTE + LTE + 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

Exposure Position	8	9	10	8+9	10+9
	5GHz WLAN Ant 4+12	Bluetooth Ant 2	6GHz WLAN Ant 4+12	Summed	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Right Cheek	1.084	0.255	0.007	1.34	0.26
Right Tilted	0.768	0.216	0.018	0.98	0.23
Left Cheek	0.496	0.141	0.002	0.64	0.14
Left Tilted	0.531	0.159	0.005	0.69	0.16

WWAN Band		Exposure Position	1	9	1+9
			WWAN	Bluetooth Ant 2	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM850Ant 0	Right Cheek	0.121	0.255	0.38
		Right Tilted	0.077	0.216	0.29
		Left Cheek	0.110	0.141	0.25
		Left Tilted	0.060	0.159	0.22
	GSM850Ant 1	Right Cheek	0.504	0.255	0.76
		Right Tilted	0.491	0.216	0.71
		Left Cheek	0.859	0.141	1.00
		Left Tilted	0.693	0.159	0.85
	GSM1900Ant 0	Right Cheek	0.107	0.255	0.36
		Right Tilted	0.105	0.216	0.32
		Left Cheek	0.205	0.141	0.35
		Left Tilted	0.094	0.159	0.25
WCDMA	WCDMA VAnt 0	Right Cheek	0.378	0.255	0.63
		Right Tilted	0.203	0.216	0.42
		Left Cheek	0.232	0.141	0.37
		Left Tilted	0.169	0.159	0.33
	WCDMA VAnt 1	Right Cheek	0.831	0.255	1.09
		Right Tilted	0.754	0.216	0.97
		Left Cheek	1.229	0.141	1.37
		Left Tilted	1.149	0.159	1.31
	WCDMA IVAnt 0	Right Cheek	0.095	0.255	0.35
		Right Tilted	0.074	0.216	0.29
		Left Cheek	0.158	0.141	0.30
		Left Tilted	0.064	0.159	0.22
	WCDMA IIAnt 0	Right Cheek	0.087	0.255	0.34
		Right Tilted	0.042	0.216	0.26
		Left Cheek	0.134	0.141	0.28
		Left Tilted	0.053	0.159	0.21
LTE	LTE Band 5Ant 0	Right Cheek	0.173	0.255	0.43
		Right Tilted	0.085	0.216	0.30
		Left Cheek	0.105	0.141	0.25
		Left Tilted	0.072	0.159	0.23
	LTE Band 12Ant 1	Right Cheek	0.666	0.255	0.92
		Right Tilted	0.650	0.216	0.87
		Left Cheek	1.231	0.141	1.37
		Left Tilted	1.090	0.159	1.25
	LTE Band 26Ant 1	Right Cheek	1.028	0.255	1.28
		Right Tilted	0.560	0.216	0.78
		Left Cheek	1.246	0.141	1.39
		Left Tilted	1.244	0.159	1.40
	LTE Band 66Ant 0	Right Cheek	0.078	0.255	0.33
		Right Tilted	0.072	0.216	0.29



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		Left Cheek	0.134	0.141	0.28
		Left Tilted	0.076	0.159	0.24
	LTE Band 66Ant 1	Right Cheek	0.417	0.255	0.67
		Right Tilted	0.546	0.216	0.76
		Left Cheek	1.068	0.141	1.21
		Left Tilted	1.151	0.159	1.31
	LTE Band 2Ant 0	Right Cheek	0.079	0.255	0.33
		Right Tilted	0.072	0.216	0.29
		Left Cheek	0.123	0.141	0.26
		Left Tilted	0.076	0.159	0.24
	LTE Band 7Ant 0	Right Cheek	0.136	0.255	0.39
		Right Tilted	0.061	0.216	0.28
		Left Cheek	0.073	0.141	0.21
		Left Tilted	0.069	0.159	0.23
	LTE Band 7Ant 1	Right Cheek	0.916	0.255	1.17
		Right Tilted	0.772	0.216	0.99
		Left Cheek	0.975	0.141	1.12
		Left Tilted	1.164	0.159	1.32
	LTE Band 41Ant 0	Right Cheek	0.122	0.255	0.38
		Right Tilted	0.048	0.216	0.26
		Left Cheek	0.062	0.141	0.20
		Left Tilted	0.074	0.159	0.23
	LTE Band 42Ant 3	Right Cheek	1.245	0.255	1.50
		Right Tilted	0.745	0.216	0.96
		Left Cheek	0.327	0.141	0.47
		Left Tilted	0.248	0.159	0.41
FR 1	FR1 n5Ant 1	Right Cheek	0.752	0.255	1.01
		Right Tilted	0.723	0.216	0.94
		Left Cheek	1.232	0.141	1.37
		Left Tilted	1.202	0.159	1.36
	FR1 n66Ant 0	Right Cheek	0.063	0.255	0.32
		Right Tilted		0.216	0.22
		Left Cheek	0.146	0.141	0.29
		Left Tilted	0.060	0.159	0.22
	FR1 n66Ant 1	Right Cheek	0.364	0.255	0.62
		Right Tilted	0.452	0.216	0.67
		Left Cheek	1.090	0.141	1.23
		Left Tilted	1.115	0.159	1.27
	FR1 n7Ant 0	Right Cheek	0.134	0.255	0.39
		Right Tilted		0.216	0.22
		Left Cheek	0.071	0.141	0.21
		Left Tilted	0.058	0.159	0.22
	FR1 n41-PC3Ant 0	Right Cheek	0.127	0.255	0.38
		Right Tilted		0.216	0.22
		Left Cheek	0.072	0.141	0.21
		Left Tilted	0.052	0.159	0.21
	FR1 n41-PC2Ant 0	Right Cheek	0.238	0.255	0.49
		Right Tilted	0.072	0.216	0.29
		Left Cheek	0.138	0.141	0.28
		Left Tilted	0.117	0.159	0.28
	FR1 n78-PC3Ant 3	Right Cheek	0.742	0.255	1.00
		Right Tilted	0.464	0.216	0.68
		Left Cheek	0.194	0.141	0.34
		Left Tilted	0.163	0.159	0.32
	FR1 n78-PC2Ant 3	Right Cheek	0.742	0.255	1.00
		Right Tilted	0.464	0.216	0.68
		Left Cheek	0.194	0.141	0.34
		Left Tilted	0.163	0.159	0.32

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WWAN Band		Exposure Position	1	5	8	9	10	1+5	1+8	1+8+9	1+10	1+9+10
			WWAN	2.4GHz WLAN Ant 2+4	5GHz WLAN Ant 4+12	Bluetooth Ant 2	6GHz WLAN Ant 4+12	Summed	Summed	Summed	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM850Ant 0	Right Cheek	0.121	0.404	0.298	0.255	0.007	0.53	0.42	0.67	0.13	0.38
		Right Tilted	0.077	0.310	0.226	0.216	0.018	0.39	0.30	0.52	0.10	0.31
		Left Cheek	0.110	0.226	0.148	0.141	0.002	0.34	0.26	0.40	0.11	0.25
		Left Tilted	0.060	0.208	0.143	0.159	0.005	0.27	0.20	0.36	0.07	0.22
	GSM850Ant 1	Right Cheek	0.504	0.404	0.298	0.255	0.007	0.91	0.80	1.06	0.51	0.77
		Right Tilted	0.491	0.226	0.226	0.216	0.018	0.49	0.72	0.93	0.51	0.73
		Left Cheek	0.859	0.226	0.148	0.141	0.002	1.09	1.01	1.15	0.86	1.00
		Left Tilted	0.693	0.208	0.143	0.159	0.005	0.90	0.84	1.00	0.70	0.86
	GSM1900Ant 0	Right Cheek	0.107	0.404	0.298	0.255	0.007	0.51	0.41	0.66	0.11	0.37
		Right Tilted	0.105	0.310	0.226	0.216	0.018	0.42	0.33	0.55	0.12	0.34
		Left Cheek	0.205	0.226	0.148	0.141	0.002	0.43	0.35	0.49	0.21	0.35
		Left Tilted	0.094	0.208	0.143	0.159	0.005	0.30	0.24	0.40	0.10	0.26
WCDMA	WCDMA VAnt 0	Right Cheek	0.378	0.404	0.298	0.255	0.007	0.78	0.68	0.93	0.39	0.64
		Right Tilted	0.203	0.310	0.226	0.216	0.018	0.51	0.43	0.65	0.22	0.44
		Left Cheek	0.232	0.226	0.148	0.141	0.002	0.46	0.38	0.52	0.23	0.38
		Left Tilted	0.169	0.208	0.143	0.159	0.005	0.38	0.31	0.47	0.17	0.33
	WCDMA V Ant 1	Right Cheek	0.619	0.404	0.298	0.255	0.007	1.02	0.92	1.17	0.63	0.88
		Right Tilted	0.608	0.310	0.226	0.216	0.018	0.92	0.83	1.05	0.63	0.84
		Left Cheek	0.811	0.226	0.148	0.141	0.002	1.04	0.96	1.10	0.81	0.95
		Left Tilted	0.753	0.208	0.143	0.159	0.005	0.96	0.90	1.06	0.76	0.92
	WCDMA IVAnt 0	Right Cheek	0.095	0.404	0.298	0.255	0.007	0.50	0.39	0.65	0.10	0.36
		Right Tilted	0.074	0.310	0.226	0.216	0.018	0.38	0.30	0.52	0.09	0.31
		Left Cheek	0.158	0.226	0.148	0.141	0.002	0.38	0.31	0.45	0.16	0.30
		Left Tilted	0.064	0.208	0.143	0.159	0.005	0.27	0.21	0.37	0.07	0.23
	WCDMA IIAnt 0	Right Cheek	0.087	0.404	0.298	0.255	0.007	0.49	0.39	0.64	0.09	0.35
		Right Tilted	0.042	0.310	0.226	0.216	0.018	0.35	0.27	0.48	0.06	0.28
		Left Cheek	0.134	0.226	0.148	0.141	0.002	0.36	0.28	0.42	0.14	0.28
		Left Tilted	0.053	0.208	0.143	0.159	0.005	0.26	0.20	0.36	0.06	0.22
LTE	LTE Band 5Ant 0	Right Cheek	0.173	0.404	0.298	0.255	0.007	0.58	0.47	0.73	0.18	0.44
		Right Tilted	0.085	0.310	0.226	0.216	0.018	0.40	0.31	0.53	0.10	0.32
		Left Cheek	0.105	0.226	0.148	0.141	0.002	0.33	0.25	0.39	0.11	0.25
		Left Tilted	0.072	0.208	0.143	0.159	0.005	0.28	0.22	0.37	0.08	0.24
	LTE Band 12 Ant 1	Right Cheek	0.536	0.404	0.298	0.255	0.007	0.94	0.83	1.09	0.54	0.80
		Right Tilted	0.530	0.310	0.226	0.216	0.018	0.84	0.76	0.97	0.55	0.76
		Left Cheek	0.991	0.226	0.148	0.141	0.002	1.22	1.14	1.28	0.99	1.13
		Left Tilted	0.879	0.208	0.143	0.159	0.005	1.09	1.02	1.18	0.88	1.04
	LTE Band 26 Ant 1	Right Cheek	0.441	0.404	0.298	0.255	0.007	0.85	0.74	0.99	0.45	0.70
		Right Tilted	0.668	0.310	0.226	0.216	0.018	0.98	0.89	1.11	0.69	0.90
		Left Cheek	0.997	0.226	0.148	0.141	0.002	1.22	1.15	1.29	1.00	1.14
		Left Tilted	0.983	0.208	0.143	0.159	0.005	1.19	1.13	1.29	0.99	1.15
	LTE Band 66Ant 0	Right Cheek	0.078	0.404	0.298	0.255	0.007	0.48	0.38	0.63	0.09	0.34
		Right Tilted	0.072	0.310	0.226	0.216	0.018	0.38	0.30	0.51	0.09	0.31
		Left Cheek	0.134	0.226	0.148	0.141	0.002	0.36	0.28	0.42	0.14	0.28
		Left Tilted	0.076	0.208	0.143	0.159	0.005	0.28	0.22	0.38	0.08	0.24
	LTE Band 66 Ant 1	Right Cheek	0.369	0.404	0.298	0.255	0.007	0.77	0.67	0.92	0.38	0.63
		Right Tilted	0.481	0.310	0.226	0.216	0.018	0.79	0.71	0.92	0.50	0.72
		Left Cheek	0.794	0.226	0.148	0.141	0.002	1.02	0.94	1.08	0.80	0.94
		Left Tilted	0.981	0.208	0.143	0.159	0.005	1.19	1.12	1.28	0.99	1.15
	LTE Band 2Ant 0	Right Cheek	0.079	0.404	0.298	0.255	0.007	0.48	0.38	0.63	0.09	0.34
		Right Tilted	0.072	0.310	0.226	0.216	0.018	0.38	0.30	0.51	0.09	0.31



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		Left Cheek	0.123	0.226	0.148	0.141	0.002	0.35	0.27	0.41	0.13	0.27
		Left Tilted	0.076	0.208	0.143	0.159	0.005	0.28	0.22	0.38	0.08	0.24
	LTE Band 7Ant 0	Right Cheek	0.136	0.404	0.298	0.255	0.007	0.54	0.43	0.69	0.14	0.40
		Right Tilted	0.061	0.310	0.226	0.216	0.018	0.37	0.29	0.50	0.08	0.30
		Left Cheek	0.073	0.226	0.148	0.141	0.002	0.30	0.22	0.36	0.08	0.22
		Left Tilted	0.069	0.208	0.143	0.159	0.005	0.28	0.21	0.37	0.07	0.23
	LTE Band 7 Ant 1	Right Cheek	0.691	0.404	0.298	0.255	0.007	1.10	0.99	1.24	0.70	0.95
		Right Tilted	0.623	0.310	0.226	0.216	0.018	0.93	0.85	1.07	0.64	0.86
		Left Cheek	0.761	0.226	0.148	0.141	0.002	0.99	0.91	1.05	0.76	0.90
		Left Tilted	0.966	0.208	0.143	0.159	0.005	1.17	1.11	1.27	0.97	1.13
	LTE Band 41Ant 0	Right Cheek	0.122	0.404	0.298	0.255	0.007	0.53	0.42	0.68	0.13	0.38
		Right Tilted	0.048	0.310	0.226	0.216	0.018	0.36	0.27	0.49	0.07	0.28
		Left Cheek	0.062	0.226	0.148	0.141	0.002	0.29	0.21	0.35	0.06	0.21
		Left Tilted	0.074	0.208	0.143	0.159	0.005	0.28	0.22	0.38	0.08	0.24
	LTE Band 42 Ant 3	Right Cheek	0.915	0.404	0.298	0.255	0.007	1.32	1.21	1.47	0.92	1.18
		Right Tilted	0.566	0.310	0.226	0.216	0.018	0.88	0.79	1.01	0.58	0.80
		Left Cheek	0.266	0.226	0.148	0.141	0.002	0.49	0.41	0.56	0.27	0.41
		Left Tilted	0.225	0.208	0.143	0.159	0.005	0.43	0.37	0.53	0.23	0.39
FR 1	FR1 n5 Ant 1	Right Cheek	0.634	0.404	0.298	0.255	0.007	1.04	0.93	1.19	0.64	0.90
		Right Tilted	0.622	0.310	0.226	0.216	0.018	0.93	0.85	1.06	0.64	0.86
		Left Cheek	0.915	0.226	0.148	0.141	0.002	1.14	1.06	1.20	0.92	1.06
		Left Tilted	0.869	0.208	0.143	0.159	0.005	1.08	1.01	1.17	0.87	1.03
	FR1 n66Ant 0	Right Cheek	0.063	0.404	0.298	0.255	0.007	0.47	0.36	0.62	0.07	0.33
		Right Tilted		0.310	0.226	0.216	0.018	0.31	0.23	0.44	0.02	0.23
		Left Cheek	0.146	0.226	0.148	0.141	0.002	0.37	0.29	0.44	0.15	0.29
		Left Tilted	0.060	0.208	0.143	0.159	0.005	0.27	0.20	0.36	0.07	0.22
	FR1 n66 Ant 1	Right Cheek	0.281	0.404	0.298	0.255	0.007	0.69	0.58	0.83	0.29	0.54
		Right Tilted	0.360	0.310	0.226	0.216	0.018	0.67	0.59	0.80	0.38	0.59
		Left Cheek	0.760	0.226	0.148	0.141	0.002	0.99	0.91	1.05	0.76	0.90
		Left Tilted	0.899	0.208	0.143	0.159	0.005	1.11	1.04	1.20	0.90	1.06
	FR1 n7Ant 0	Right Cheek	0.134	0.404	0.298	0.255	0.007	0.54	0.43	0.69	0.14	0.40
		Right Tilted		0.310	0.226	0.216	0.018	0.31	0.23	0.44	0.02	0.23
		Left Cheek	0.071	0.226	0.148	0.141	0.002	0.30	0.22	0.36	0.07	0.21
		Left Tilted	0.058	0.208	0.143	0.159	0.005	0.27	0.20	0.36	0.06	0.22
	FR1 n41-PC3Ant 0	Right Cheek	0.127	0.404	0.298	0.255	0.007	0.53	0.43	0.68	0.13	0.39
		Right Tilted		0.310	0.226	0.216	0.018	0.31	0.23	0.44	0.02	0.23
		Left Cheek	0.072	0.226	0.148	0.141	0.002	0.30	0.22	0.36	0.07	0.22
		Left Tilted	0.052	0.208	0.143	0.159	0.005	0.26	0.20	0.35	0.06	0.22
	FR1 n41-PC2 Ant 0	Right Cheek	0.238	0.404	0.298	0.255	0.007	0.64	0.54	0.79	0.25	0.50
		Right Tilted	0.072	0.310	0.226	0.216	0.018	0.38	0.30	0.51	0.09	0.31
		Left Cheek	0.138	0.226	0.148	0.141	0.002	0.36	0.29	0.43	0.14	0.28
		Left Tilted	0.117	0.208	0.143	0.159	0.005	0.33	0.26	0.42	0.12	0.28
	FR1 n78-PC3 Ant 3	Right Cheek	0.565	0.404	0.298	0.255	0.007	0.97	0.86	1.12	0.57	0.83
		Right Tilted	0.357	0.310	0.226	0.216	0.018	0.67	0.58	0.80	0.38	0.59
		Left Cheek	0.155	0.226	0.148	0.141	0.002	0.38	0.30	0.44	0.16	0.30
		Left Tilted	0.124	0.208	0.143	0.159	0.005	0.33	0.27	0.43	0.13	0.29
	FR1 n78-PC2 Ant 3	Right Cheek	0.565	0.404	0.298	0.255	0.007	0.97	0.86	1.12	0.57	0.83
		Right Tilted	0.357	0.310	0.226	0.216	0.018	0.67	0.58	0.80	0.38	0.59
		Left Cheek	0.155	0.226	0.148	0.141	0.002	0.38	0.30	0.44	0.16	0.30
		Left Tilted	0.124	0.208	0.143	0.159	0.005	0.33	0.27	0.43	0.13	0.29

17.3 Hotspot Exposure Conditions

Exposure Position	8	9	8+9 Summed 1g SAR (W/kg)
	5GHz WLAN Ant 4+12	Bluetooth Ant 2	
	1g SAR (W/kg)	1g SAR (W/kg)	
Front	0.170	0.104	0.27
Back	1.048	0.149	1.20
Left side		0.074	0.07
Right side		0.051	0.05
Top side		0.119	0.12
Bottom side			0.00

WWAN Band		Exposure Position	1	9	1+9
			WWAN	Bluetooth Ant 2	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM850Ant 0	Front	1.031	0.104	1.14
		Back	1.233	0.149	1.38
		Left side	0.231	0.074	0.31
		Right side	0.434	0.051	0.49
		Top side		0.119	0.12
		Bottom side	0.910		0.91
	GSM850Ant 1	Front	0.447	0.104	0.55
		Back	0.828	0.149	0.98
		Left side	0.113	0.074	0.19
		Right side	0.271	0.051	0.32
		Top side	0.639	0.119	0.76
		Bottom side			0.00
	GSM1900Ant 0	Front	0.426	0.104	0.53
		Back	1.125	0.149	1.27
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
WCDMA	WCDMA VAnt 0	Front	0.687	0.104	0.79
		Back	1.257	0.149	1.41
		Left side	0.193	0.074	0.27
		Right side	0.235	0.051	0.29
		Top side		0.119	0.12
		Bottom side	0.606		0.61
	WCDMA VAnt 1	Front	0.588	0.104	0.69
		Back	1.101	0.149	1.25
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	WCDMA IVAnt 0	Front	0.665	0.104	0.77
		Back	1.103	0.149	1.25
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	WCDMA IIAnt 0	Front	0.578	0.104	0.68
		Back	1.190	0.149	1.34



		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
LTE	LTE Band 5Ant 0	Front	0.633	0.104	0.74
		Back	1.221	0.149	1.37
		Left side	0.118	0.074	0.19
		Right side	0.224	0.051	0.28
		Top side		0.119	0.12
		Bottom side	0.594		0.59
	LTE Band 12Ant 1	Front	0.665	0.104	0.77
		Back	1.120	0.149	1.27
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	LTE Band 26Ant 1	Front	0.763	0.104	0.87
		Back	1.048	0.149	1.20
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	LTE Band 66Ant 0	Front	0.551	0.104	0.66
		Back	1.135	0.149	1.28
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	LTE Band 66Ant 1	Front	0.642	0.104	0.75
		Back	1.090	0.149	1.24
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	LTE Band 2Ant 0	Front	0.510	0.104	0.61
		Back	1.111	0.149	1.26
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	LTE Band 7Ant 0	Front	0.462	0.104	0.57
		Back	1.233	0.149	1.38
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	LTE Band 7Ant 1	Front	0.862	0.104	0.97
		Back	1.201	0.149	1.35
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	LTE Band 41Ant 0	Front	0.480	0.104	0.58
		Back	1.030	0.149	1.18
		Left side		0.074	0.07
		Right side		0.051	0.05



		Top side		0.119	0.12
		Bottom side			0.00
FR 1	LTE Band 42Ant 3	Front	0.294	0.104	0.40
		Back	1.244	0.149	1.39
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n5Ant 1	Front	0.728	0.104	0.83
		Back	1.076	0.149	1.23
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n66Ant 0	Front	0.716	0.104	0.82
		Back	1.167	0.149	1.32
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n66Ant 1	Front	0.628	0.104	0.73
		Back	1.202	0.149	1.35
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n7Ant 0	Front	0.459	0.104	0.56
		Back	1.225	0.149	1.37
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n41-PC3Ant 0	Front	0.511	0.104	0.62
		Back	1.149	0.149	1.30
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n41-PC2Ant 0	Front	0.511	0.104	0.62
		Back	1.149	0.149	1.30
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n78-PC3Ant 3	Front	0.203	0.104	0.31
		Back	0.746	0.149	0.90
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00
	FR1 n78-PC2Ant 3	Front	0.205	0.104	0.31
		Back	0.746	0.149	0.90
		Left side		0.074	0.07
		Right side		0.051	0.05
		Top side		0.119	0.12
		Bottom side			0.00



WWAN Band		Exposure Position	1	5	8	9	1+5 Summed 1g SAR (W/kg)	SPLSR	Case No	1+8 Summed 1g SAR (W/kg)	1+8+9 Summed 1g SAR (W/kg)	SPLSR	Case No
			WWAN	2.4GHz WLAN Ant 2+4	5GHz WLAN Ant 4+12	Bluetooth Ant 2							
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM	GSM850Ant 0	Front	1.031	0.206	0.070	0.104	1.24			1.10	1.21		
		Back	1.233	0.437	0.300	0.149	1.67	0.02	#1	1.53	1.68	0.02	#4
		Left side	0.231	0.051	0.033	0.074	0.28			0.26	0.34		
		Right side	0.434		0.058	0.051	0.43			0.49	0.54		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	0.910				0.91			0.91	0.91		
	GSM850Ant 1	Front	0.447	0.206	0.070	0.104	0.65			0.52	0.62		
		Back	0.828	0.437	0.300	0.149	1.27			1.13	1.28		
		Left side	0.113	0.051	0.033	0.074	0.16			0.15	0.22		
		Right side	0.271		0.058	0.051	0.27			0.33	0.38		
		Top side	0.639	0.288	0.120	0.119	0.93			0.76	0.88		
		Bottom side					0.00			0.00	0.00		
	GSM1900 Ant 0	Front	0.298	0.206	0.070	0.104	0.50			0.37	0.47		
		Back	0.735	0.437	0.300	0.149	1.17			1.04	1.18		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side			0.058	0.051	0.00			0.06	0.11		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.220				1.22			1.22	1.22		
WCDMA	WCDMA VAnt 0	Front	0.687	0.206	0.070	0.104	0.89			0.76	0.86		
		Back	1.257	0.437	0.300	0.149	1.69	0.02	#2	1.56	1.71	0.02	#5
		Left side	0.193	0.051	0.033	0.074	0.24			0.23	0.30		
		Right side	0.235		0.058	0.051	0.24			0.29	0.34		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	0.606				0.61			0.61	0.61		
	WCDMA V Ant 1	Front	0.729	0.206	0.070	0.104	0.94			0.80	0.90		
		Back	0.967	0.437	0.300	0.149	1.40			1.27	1.42		
		Left side	0.122	0.051	0.033	0.074	0.17			0.16	0.23		
		Right side	0.282		0.058	0.051	0.28			0.34	0.39		
		Top side	0.805	0.288	0.120	0.119	1.09			0.93	1.04		
		Bottom side					0.00			0.00	0.00		
	WCDMA IV Ant 0	Front	0.438	0.206	0.070	0.104	0.64			0.51	0.61		
		Back	0.724	0.437	0.300	0.149	1.16			1.02	1.17		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.056		0.058	0.051	0.06			0.11	0.17		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.112				1.11			1.11	1.11		
	WCDMA II Ant 0	Front	0.396	0.206	0.070	0.104	0.60			0.47	0.57		
		Back	0.702	0.437	0.300	0.149	1.14			1.00	1.15		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side			0.058	0.051	0.00			0.06	0.11		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.203				1.20			1.20	1.20		
LTE	LTE Band 5Ant 0	Front	0.633	0.206	0.070	0.104	0.84			0.70	0.81		
		Back	1.221	0.437	0.300	0.149	1.66	0.02	#3	1.52	1.67	0.02	#6
		Left side	0.118	0.051	0.033	0.074	0.17			0.15	0.23		
		Right side	0.224		0.058	0.051	0.22			0.28	0.33		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	0.594				0.59			0.59	0.59		
	LTE Band 12 Ant 1	Front	0.612	0.206	0.070	0.104	0.82			0.68	0.79		



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		Back	0.826	0.437	0.300	0.149	1.26			1.13	1.28		
		Left side	0.186	0.051	0.033	0.074	0.24			0.22	0.29		
		Right side	0.506		0.058	0.051	0.51			0.56	0.62		
		Top side	0.798	0.288	0.120	0.119	1.09			0.92	1.04		
		Bottom side					0.00			0.00	0.00		
	LTE Band 26 Ant 1	Front	0.615	0.206	0.070	0.104	0.82			0.69	0.79		
		Back	0.934	0.437	0.300	0.149	1.37			1.23	1.38		
		Left side	0.076	0.051	0.033	0.074	0.13			0.11	0.18		
		Right side	0.220		0.058	0.051	0.22			0.28	0.33		
		Top side	0.858	0.288	0.120	0.119	1.15			0.98	1.10		
	LTE Band 66 Ant 0	Bottom side					0.00			0.00	0.00		
		Front	0.364	0.206	0.070	0.104	0.57			0.43	0.54		
		Back	0.783	0.437	0.300	0.149	1.22			1.08	1.23		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.072		0.058	0.051	0.07			0.13	0.18		
	LTE Band 66 Ant 1	Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.141				1.14			1.14	1.14		
		Front	0.566	0.206	0.070	0.104	0.77			0.64	0.74		
		Back	0.876	0.437	0.300	0.149	1.31			1.18	1.33		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
	LTE Band 2 Ant 0	Right side	0.130		0.058	0.051	0.13			0.19	0.24		
		Top side	0.902	0.288	0.120	0.119	1.19			1.02	1.14		
		Bottom side					0.00			0.00	0.00		
		Front	0.333	0.206	0.070	0.104	0.54			0.40	0.51		
		Back	0.638	0.437	0.300	0.149	1.08			0.94	1.09		
	LTE Band 7 Ant 0	Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side			0.058	0.051	0.00			0.06	0.11		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.064				1.06			1.06	1.06		
		Front	0.364	0.206	0.070	0.104	0.57			0.43	0.54		
	LTE Band 7 Ant 1	Back	0.737	0.437	0.300	0.149	1.17			1.04	1.19		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.097		0.058	0.051	0.10			0.16	0.21		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.139				1.14			1.14	1.14		
	LTE Band 41 Ant 0	Front	0.962	0.206	0.070	0.104	1.17			1.03	1.14		
		Back	0.682	0.437	0.300	0.149	1.12			0.98	1.13		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.155		0.058	0.051	0.16			0.21	0.26		
		Top side	1.187	0.288	0.120	0.119	1.48			1.31	1.43		
	LTE Band 42 Ant 3	Bottom side					0.00			0.00	0.00		
		Front	0.346	0.206	0.070	0.104	0.55			0.42	0.52		
		Back	0.786	0.437	0.300	0.149	1.22			1.09	1.24		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.168		0.058	0.051	0.17			0.23	0.28		
	FR 1	Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.057				1.06			1.06	1.06		
		Front	0.243	0.206	0.070	0.104	0.45			0.31	0.42		
		Back	0.938	0.437	0.300	0.149	1.38			1.24	1.39		
		Left side	0.585	0.051	0.033	0.074	0.64			0.62	0.69		
	FR1 n5 Ant 1	Right side			0.058	0.051	0.00			0.06	0.11		
		Top side	0.237	0.288	0.120	0.119	0.53			0.36	0.48		
		Bottom side					0.00			0.00	0.00		
		Front	0.454	0.206	0.070	0.104	0.66			0.52	0.63		
		Back	0.868	0.437	0.300	0.149	1.31			1.17	1.32		
		Left side	0.111	0.051	0.033	0.074	0.16			0.14	0.22		

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		Right side	0.235		0.058	0.051	0.24			0.29	0.34		
		Top side	0.715	0.288	0.120	0.119	1.00			0.84	0.95		
		Bottom side					0.00			0.00	0.00		
	FR1 n66 Ant 0	Front	0.447	0.206	0.070	0.104	0.65			0.52	0.62		
		Back	0.732	0.437	0.300	0.149	1.17			1.03	1.18		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.075		0.058	0.051	0.08			0.13	0.18		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.201				1.20			1.20	1.20		
	FR1 n66 Ant 1	Front	0.494	0.206	0.070	0.104	0.70			0.56	0.67		
		Back	0.944	0.437	0.300	0.149	1.38			1.24	1.39		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.122		0.058	0.051	0.12			0.18	0.23		
		Top side	0.876	0.288	0.120	0.119	1.16			1.00	1.12		
		Bottom side					0.00			0.00	0.00		
	FR1 n7 Ant 0	Front	0.209	0.206	0.070	0.104	0.42			0.28	0.38		
		Back	0.790	0.437	0.300	0.149	1.23			1.09	1.24		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.108		0.058	0.051	0.11			0.17	0.22		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.213				1.21			1.21	1.21		
	FR1 n41-PC3 Ant 0	Front	0.170	0.206	0.070	0.104	0.38			0.24	0.34		
		Back	0.783	0.437	0.300	0.149	1.22			1.08	1.23		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.087		0.058	0.051	0.09			0.15	0.20		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.152				1.15			1.15	1.15		
	FR1 n41-PC2 Ant 0	Front	0.170	0.206	0.070	0.104	0.38			0.24	0.34		
		Back	0.783	0.437	0.300	0.149	1.22			1.08	1.23		
		Left side		0.051	0.033	0.074	0.05			0.03	0.11		
		Right side	0.087		0.058	0.051	0.09			0.15	0.20		
		Top side		0.288	0.120	0.119	0.29			0.12	0.24		
		Bottom side	1.152				1.15			1.15	1.15		
	FR1 n78-PC3 Ant 3	Front	0.162	0.206	0.070	0.104	0.37			0.23	0.34		
		Back	0.630	0.437	0.300	0.149	1.07			0.93	1.08		
		Left side	0.477	0.051	0.033	0.074	0.53			0.51	0.58		
		Right side			0.058	0.051	0.00			0.06	0.11		
		Top side	0.164	0.288	0.120	0.119	0.45			0.28	0.40		
		Bottom side					0.00			0.00	0.00		
	FR1 n78-PC2 Ant 3	Front	0.162	0.206	0.070	0.104	0.37			0.23	0.34		
		Back	0.630	0.437	0.300	0.149	1.07			0.93	1.08		
		Left side	0.477	0.051	0.033	0.074	0.53			0.51	0.58		
		Right side			0.058	0.051	0.00			0.06	0.11		
		Top side	0.164	0.288	0.120	0.119	0.45			0.28	0.40		
		Bottom side					0.00			0.00	0.00		

17.4 Body-Worn Accessory Exposure Conditions

Exposure Position	8	9	10	8+9 Summed 1g SAR (W/kg)	10+9 Summed 1g SAR (W/kg)
	5GHz WLAN Ant 4+12	Bluetooth Ant 2	6GHz WLAN Ant 4+12		
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
Front	0.170	0.104	0.005	0.27	0.11
Back	1.048	0.149	0.107	1.20	0.26

WWAN Band		Exposure Position	1	9	1+9
			WWAN	Bluetooth Ant 2	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM850Ant 0	Front	1.031	0.104	1.14
		Back	1.233	0.149	1.38
		Front with Headset			0.00
		Back with Headset	0.796		0.80
	GSM850Ant 1	Front	0.447	0.104	0.55
		Back	0.828	0.149	0.98
		Front with Headset			0.00
		Back with Headset			0.00
	GSM1900Ant 0	Front	0.426	0.104	0.53
		Back	1.125	0.149	1.27
		Front with Headset			0.00
		Back with Headset			0.00
WCDMA	WCDMA VAnt 0	Front	0.687	0.104	0.79
		Back	1.257	0.149	1.41
		Front with Headset			0.00
		Back with Headset	0.779		0.78
	WCDMA VAnt 1	Front	0.588	0.104	0.69
		Back	1.101	0.149	1.25
		Front with Headset			0.00
		Back with Headset			0.00
	WCDMA IVAnt 0	Front	0.665	0.104	0.77
		Back	1.103	0.149	1.25
		Front with Headset			0.00
		Back with Headset			0.00
	WCDMA IIAnt 0	Front	0.578	0.104	0.68
		Back	1.190	0.149	1.34
		Front with Headset			0.00
		Back with Headset			0.00
LTE	LTE Band 5Ant 0	Front	0.633	0.104	0.74
		Back	1.221	0.149	1.37
		Front with Headset			0.00
		Back with Headset	0.683		0.68
	LTE Band 12Ant 1	Front	0.665	0.104	0.77
		Back	1.120	0.149	1.27
		Front with Headset			0.00
		Back with Headset			0.00
	LTE Band 26Ant 1	Front	0.763	0.104	0.87
		Back	1.048	0.149	1.20
		Front with Headset			0.00
		Back with Headset			0.00
	LTE Band 66Ant 0	Front	0.551	0.104	0.66
		Back	1.135	0.149	1.28
		Front with Headset			0.00



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		LTE Band 66Ant 1	Back with Headset			0.00
			Front	0.642	0.104	0.75
			Back	1.090	0.149	1.24
			Front with Headset			0.00
			Back with Headset			0.00
		LTE Band 2Ant 0	Front	0.510	0.104	0.61
			Back	1.111	0.149	1.26
			Front with Headset			0.00
			Back with Headset			0.00
		LTE Band 7Ant 0	Front	0.462	0.104	0.57
			Back	1.233	0.149	1.38
			Front with Headset			0.00
			Back with Headset	0.689		0.69
		LTE Band 7Ant 1	Front	0.862	0.104	0.97
			Back	1.201	0.149	1.35
			Front with Headset			0.00
			Back with Headset	1.143		1.14
		LTE Band 41Ant 0	Front	0.480	0.104	0.58
			Back	1.030	0.149	1.18
			Front with Headset			0.00
			Back with Headset			0.00
		LTE Band 42Ant 3	Front	0.294	0.104	0.40
			Back	1.244	0.149	1.39
			Front with Headset			0.00
			Back with Headset	1.191		1.19
	FR 1	FR1 n5Ant 1	Front	0.728	0.104	0.83
			Back	1.076	0.149	1.23
			Front with Headset			0.00
			Back with Headset			0.00
		FR1 n66Ant 0	Front	0.716	0.104	0.82
			Back	1.167	0.149	1.32
			Front with Headset			0.00
			Back with Headset			0.00
		FR1 n66Ant 1	Front	0.628	0.104	0.73
			Back	1.202	0.149	1.35
			Front with Headset			0.00
			Back with Headset	1.156		1.16
		FR1 n7Ant 0	Front	0.459	0.104	0.56
			Back	1.225	0.149	1.37
			Front with Headset			0.00
			Back with Headset	0.750		0.75
		FR1 n41-PC3Ant 0	Front	0.511	0.104	0.62
			Back	1.149	0.149	1.30
			Front with Headset			0.00
			Back with Headset			0.00
		FR1 n41-PC2Ant 0	Front	0.511	0.104	0.62
			Back	1.149	0.149	1.30
			Front with Headset			0.00
			Back with Headset			0.00
		FR1 n78-PC3Ant 3	Front	0.203	0.104	0.31
			Back	0.746	0.149	0.90
			Front with Headset			0.00
			Back with Headset			0.00
		FR1 n78-PC2Ant 3	Front	0.205	0.104	0.31
			Back	0.746	0.149	0.90
			Front with Headset			0.00
			Back with Headset			0.00

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FCC ID : IHD756ZP3

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Form version. : 200414



WWAN Band		Exposure Position	1	5	8	9	10	1+5	SPLSR	Case No	1+8	1+8+9	SPLSR	Case No	1+10	1+9+10
			WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	6GHz WLAN	Summed			Summed	Summed				
			1g SAR (W/kg)	Ant 2+4 1g SAR (W/kg)	Ant 4+12 1g SAR (W/kg)	Ant 2 1g SAR (W/kg)	Ant 4+12 1g SAR (W/kg)	1g SAR (W/kg)			1g SAR (W/kg)	1g SAR (W/kg)			1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM850 Ant 0	Front	1.031	0.206	0.067	0.104	0.005	1.24			1.10	1.20			1.04	1.14
		Back	1.233	0.437	0.305	0.149	0.107	1.67	0.02	#1	1.54	1.69	0.02	#7	1.34	1.49
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset	0.796					0.80			0.80	0.80			0.80	0.80
	GSM850 Ant 1	Front	0.447	0.206	0.067	0.104	0.005	0.65			0.51	0.62			0.45	0.56
		Back	0.828	0.437	0.305	0.149	0.107	1.27			1.13	1.28			0.94	1.08
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	GSM1900 Ant 0	Front	0.298	0.206	0.067	0.104	0.005	0.50			0.37	0.47			0.30	0.41
		Back	0.735	0.437	0.305	0.149	0.107	1.17			1.04	1.19			0.84	0.99
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
WCDMA	WCDMA V Ant 0	Front	0.687	0.206	0.067	0.104	0.005	0.89			0.75	0.86			0.69	0.80
		Back	1.257	0.437	0.305	0.149	0.107	1.69	0.02	#2	1.56	1.71	0.02	#8	1.36	1.51
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset	0.779					0.78			0.78	0.78			0.78	0.78
	WCDMA V Ant 1	Front	0.729	0.206	0.067	0.104	0.005	0.94			0.80	0.90			0.73	0.84
		Back	0.967	0.437	0.305	0.149	0.107	1.40			1.27	1.42			1.07	1.22
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	WCDMA IV Ant 0	Front	0.438	0.206	0.067	0.104	0.005	0.64			0.51	0.61			0.44	0.55
		Back	0.724	0.437	0.305	0.149	0.107	1.16			1.03	1.18			0.83	0.98
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	WCDMA II Ant 0	Front	0.396	0.206	0.067	0.104	0.005	0.60			0.46	0.57			0.40	0.51
		Back	0.702	0.437	0.305	0.149	0.107	1.14			1.01	1.16			0.81	0.96
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
LTE	LTE Band 5 Ant 0	Front	0.633	0.206	0.067	0.104	0.005	0.84			0.70	0.80			0.64	0.74
		Back	1.221	0.437	0.305	0.149	0.107	1.66	0.02	#3	1.53	1.68	0.02	#9	1.33	1.48
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset	0.683					0.68			0.68	0.68			0.68	0.68
	LTE Band 12 Ant 1	Front	0.612	0.206	0.067	0.104	0.005	0.82			0.68	0.78			0.62	0.72
		Back	0.826	0.437	0.305	0.149	0.107	1.26			1.13	1.28			0.93	1.08
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	LTE Band 26 Ant 1	Front	0.615	0.206	0.067	0.104	0.005	0.82			0.68	0.79			0.62	0.72
		Back	0.934	0.437	0.305	0.149	0.107	1.37			1.24	1.39			1.04	1.19
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	LTE Band 66 Ant 0	Front	0.364	0.206	0.067	0.104	0.005	0.57			0.43	0.54			0.37	0.47
		Back	0.783	0.437	0.305	0.149	0.107	1.22			1.09	1.24			0.89	1.04
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	LTE Band 66 Ant 1	Front	0.566	0.206	0.067	0.104	0.005	0.77			0.63	0.74			0.57	0.68
		Back	0.876	0.437	0.305	0.149	0.107	1.31			1.18	1.33			0.98	1.13
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
LTE Band 2 Ant 0	Front	0.333	0.206	0.067	0.104	0.005	0.54			0.40	0.50			0.34	0.44	
	Back	0.638	0.437	0.305	0.149	0.107	1.08			0.94	1.09			0.75	0.89	



FCC SAR Test Report

Report No. : FA151701

		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	LTE Band 7 Ant 0	Front	0.364	0.206	0.067	0.104	0.005	0.57			0.43	0.54			0.37	0.47
		Back	0.737	0.437	0.305	0.149	0.107	1.17			1.04	1.19			0.84	0.99
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	LTE Band 7 Ant 1	Front	0.962	0.206	0.067	0.104	0.005	1.17			1.03	1.13			0.97	1.07
		Back	0.682	0.437	0.305	0.149	0.107	1.12			0.99	1.14			0.79	0.94
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	LTE Band 41 Ant 0	Front	0.346	0.206	0.067	0.104	0.005	0.55			0.41	0.52			0.35	0.46
		Back	0.786	0.437	0.305	0.149	0.107	1.22			1.09	1.24			0.89	1.04
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	LTE Band 42 Ant 3	Front	0.243	0.206	0.067	0.104	0.005	0.45			0.31	0.41			0.25	0.35
		Back	0.938	0.437	0.305	0.149	0.107	1.38			1.24	1.39			1.05	1.19
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
FR 1	FR1 n5 Ant 1	Front	0.454	0.206	0.067	0.104	0.005	0.66			0.52	0.63			0.46	0.56
		Back	0.868	0.437	0.305	0.149	0.107	1.31			1.17	1.32			0.98	1.12
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	FR1 n66 Ant 0	Front	0.447	0.206	0.067	0.104	0.005	0.65			0.51	0.62			0.45	0.56
		Back	0.732	0.437	0.305	0.149	0.107	1.17			1.04	1.19			0.84	0.99
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	FR1 n66 Ant 1	Front	0.494	0.206	0.067	0.104	0.005	0.70			0.56	0.67			0.50	0.60
		Back	0.944	0.437	0.305	0.149	0.107	1.38			1.25	1.40			1.05	1.20
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	FR1 n7 Ant 0	Front	0.209	0.206	0.067	0.104	0.005	0.42			0.28	0.38			0.21	0.32
		Back	0.790	0.437	0.305	0.149	0.107	1.23			1.10	1.24			0.90	1.05
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	FR1 n41-PC3 Ant 0	Front	0.170	0.206	0.067	0.104	0.005	0.38			0.24	0.34			0.18	0.28
		Back	0.783	0.437	0.305	0.149	0.107	1.22			1.09	1.24			0.89	1.04
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	FR1 n41-PC2 Ant 0	Front	0.170	0.206	0.067	0.104	0.005	0.38			0.24	0.34			0.18	0.28
		Back	0.783	0.437	0.305	0.149	0.107	1.22			1.09	1.24			0.89	1.04
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	FR1 n78-PC3 Ant 3	Front	0.162	0.206	0.067	0.104	0.005	0.37			0.23	0.33			0.17	0.27
		Back	0.630	0.437	0.305	0.149	0.107	1.07			0.94	1.08			0.74	0.89
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00
	FR1 n78-PC2 Ant 3	Front	0.162	0.206	0.067	0.104	0.005	0.37			0.23	0.33			0.17	0.27
		Back	0.630	0.437	0.305	0.149	0.107	1.07			0.94	1.08			0.74	0.89
		Front with Headset						0.00			0.00	0.00			0.00	0.00
		Back with Headset						0.00			0.00	0.00			0.00	0.00



Sensor off

WWAN Band		Exposure Position	1	5	8	1+5	1+8
			WWAN	2.4GHz WLAN Ant 2+4	5GHz WLAN Ant 4+12	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM850Ant 0	Front at 15mm	0.396	0.126	0.086	0.52	0.48
		Back at 20mm	0.499	0.192	0.662	0.69	1.16
	GSM1900Ant 0	Front at 15mm	0.253	0.126	0.086	0.38	0.34
		Back at 20mm	0.414	0.192	0.662	0.61	1.08
WCDMA	WCDMA VAnt 0	Front at 15mm	0.158	0.126	0.086	0.28	0.24
		Back at 20mm	0.307	0.192	0.662	0.50	0.97
	WCDMA VAnt 1	Front at 15mm	0.228	0.126	0.086	0.35	0.31
		Back at 20mm	0.192	0.192	0.662	0.38	0.85
	WCDMA IVAnt 0	Front at 15mm	0.649	0.126	0.086	0.78	0.74
		Back at 20mm	0.620	0.192	0.662	0.81	1.28
	WCDMA IIAnt 0	Front at 15mm	0.760	0.126	0.086	0.89	0.85
		Back at 20mm	0.725	0.192	0.662	0.92	1.39
LTE	LTE Band 12Ant 1	Front at 15mm	0.238	0.126	0.086	0.36	0.32
		Back at 20mm	0.261	0.192	0.662	0.45	0.92
	LTE Band 26Ant 1	Front at 15mm	0.241	0.126	0.086	0.37	0.33
		Back at 20mm	0.230	0.192	0.662	0.42	0.89
	LTE Band 66Ant 0	Front at 15mm	0.577	0.126	0.086	0.70	0.66
		Back at 20mm	0.725	0.192	0.662	0.92	1.39
	LTE Band 66Ant 1	Front at 15mm	0.358	0.126	0.086	0.48	0.44
		Back at 20mm	0.319	0.192	0.662	0.51	0.98
	LTE Band 2Ant 0	Front at 15mm	0.666	0.126	0.086	0.79	0.75
		Back at 20mm	0.726	0.192	0.662	0.92	1.39
	LTE Band 7Ant 0	Front at 15mm	0.431	0.126	0.086	0.56	0.52
		Back at 20mm	0.576	0.192	0.662	0.77	1.24
	LTE Band 7Ant 1	Front at 15mm	0.219	0.126	0.086	0.35	0.31
		Back at 20mm	0.275	0.192	0.662	0.47	0.94
	LTE Band 41Ant 0	Front at 15mm	0.398	0.126	0.086	0.52	0.48
		Back at 20mm	0.449	0.192	0.662	0.64	1.11
FR 1	FR1 n5Ant 1	Front at 15mm	0.222	0.126	0.086	0.35	0.31
		Back at 20mm	0.335	0.192	0.662	0.53	1.00
	FR1 n66Ant 0	Front at 15mm	0.122	0.126	0.086	0.25	0.21
		Back at 20mm	0.101	0.192	0.662	0.29	0.76
	FR1 n66Ant 1	Front at 15mm	0.510	0.126	0.086	0.64	0.60
		Back at 20mm	0.461	0.192	0.662	0.65	1.12
	FR1 n7Ant 0	Front at 15mm	1.000	0.126	0.086	1.13	1.09
		Back at 20mm	0.547	0.192	0.662	0.74	1.21
	FR1 n41-PC2Ant 0	Front at 15mm	0.299	0.126	0.086	0.43	0.39
		Back at 20mm	0.309	0.192	0.662	0.50	0.97
	FR1 n78-PC2Ant 3	Front at 15mm	0.724	0.126	0.086	0.85	0.81
		Back at 20mm	0.851	0.192	0.662	1.04	1.51



17.5 Product specific 10g SAR Exposure Conditions

WWAN Band		Exposure Position	1	4	7	9	1+4 Summed 10g SAR (W/kg)	1+7 Summed 10g SAR (W/kg)	SPLSR	Case No	1+9 Summed 10g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 2+4	5GHz WLAN Ant 4+12	6GHz WLAN Ant 4+12					
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)					
GSM	GSM850Ant 0	Front	0.631		0.359	0.008	0.63	0.99			0.64
		Back	0.681	1.007	1.193	0.040	1.69	1.87			0.72
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side					0.00	0.00			0.00
	GSM1900Ant 0	Front			0.359	0.008	0.00	0.36			0.01
		Back	1.990	1.007	1.193	0.040	3.00	3.18			2.03
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.245				2.25	2.25			2.25
WCDMA	WCDMA VAnt 0	Front			0.359	0.008	0.00	0.36			0.01
		Back	2.909	1.007	1.193	0.040	3.92	4.10	0.06	#10	2.95
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side					0.00	0.00			0.00
	WCDMA VAnt 1	Front	1.706		0.359	0.008	1.71	2.07			1.71
		Back	1.143	1.007	1.193	0.040	2.15	2.34			1.18
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side	2.611		0.255	0.016	2.61	2.87			2.63
		Bottom side					0.00	0.00			0.00
	WCDMA IVAnt 0	Front	1.391		0.359	0.008	1.39	1.75			1.40
		Back	2.394	1.007	1.193	0.040	3.40	3.59			2.43
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.682				2.68	2.68			2.68
	WCDMA IIAnt 0	Front	1.476		0.359	0.008	1.48	1.84			1.48
		Back	2.659	1.007	1.193	0.040	3.67	3.85			2.70
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.900				2.90	2.90			2.90
LTE	LTE Band 5Ant 0	Front			0.359	0.008	0.00	0.36			0.01
		Back	1.168	1.007	1.193	0.040	2.18	2.36			1.21
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side					0.00	0.00			0.00
	LTE Band 26Ant 1	Front			0.359	0.008	0.00	0.36			0.01
		Back	1.141	1.007	1.193	0.040	2.15	2.33			1.18
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side	2.402		0.255	0.016	2.40	2.66			2.42
		Bottom side					0.00	0.00			0.00
LTE Band 66Ant 0	Front	1.499		0.359	0.008	1.50	1.86			1.51	



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		Back	2.900	1.007	1.193	0.040	3.91	4.09	0.06	#11	2.94
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.932				2.93	2.93			2.93
	LTE Band 66 Ant 1	Front	1.934		0.359	0.008	1.93	2.29			1.94
		Back	1.245	1.007	1.193	0.040	2.25	2.44			1.29
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side	2.776		0.255	0.016	2.78	3.03			2.79
	LTE Band 2Ant 0	Bottom side					0.00	0.00			0.00
		Front	1.605		0.359	0.008	1.61	1.96			1.61
		Back	2.459	1.007	1.193	0.040	3.47	3.65			2.50
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
	LTE Band 7Ant 0	Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.457				2.46	2.46			2.46
		Front	1.412		0.359	0.008	1.41	1.77			1.42
		Back	2.945	1.007	1.193	0.040	3.95	4.14	0.06	#12	2.99
		Left side			0.094	0.001	0.00	0.09			0.00
	LTE Band 7Ant 1	Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.800				2.80	2.80			2.80
		Front			0.359	0.008	0.00	0.36			0.01
		Back	0.977	1.007	1.193	0.040	1.98	2.17			1.02
	LTE Band 41Ant 0	Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	1.853				1.85	1.85			1.85
		Front	0.680		0.359	0.008	0.68	1.04			0.69
	LTE Band 42 Ant 3	Back	2.251	1.007	1.193	0.040	3.26	3.44			2.29
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side					0.00	0.00			0.00
FR 1	FR1 n66Ant 0	Front	1.936		0.359	0.008	1.94	2.30			1.94
		Back	2.951	1.007	1.193	0.040	3.96	4.14	0.06	#14	2.99
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
	FR1 n66 Ant 1	Bottom side	2.842				2.84	2.84			2.84
		Front	2.223		0.359	0.008	2.22	2.58			2.23
		Back	1.289	1.007	1.193	0.040	2.30	2.48			1.33
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side	2.620		0.255	0.016	2.62	2.88			2.64
		Bottom side					0.00	0.00			0.00
	FR1 n7Ant 0	Front			0.359	0.008	0.00	0.36			0.01
		Back	2.931	1.007	1.193	0.040	3.94	4.12	0.06	#15	2.97
		Left side			0.094	0.001	0.00	0.09			0.00

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		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	1.871				1.87	1.87			1.87
	FR1 n41-PC3Ant 0	Front	1.629		0.359	0.008	1.63	1.99			1.64
		Back	2.837	1.007	1.193	0.040	3.84	4.03	0.06	#16	2.88
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.669				2.67	2.67			2.67
		Front	1.629		0.359	0.008	1.63	1.99			1.64
	FR1 n41-PC2Ant 0	Back	2.837	1.007	1.193	0.040	3.84	4.03	0.06	#16	2.88
		Left side			0.094	0.001	0.00	0.09			0.00
		Right side					0.00	0.00			0.00
		Top side			0.255	0.016	0.00	0.26			0.02
		Bottom side	2.669				2.67	2.67			2.67
	FR1 n78-PC3 Ant 3	Front	1.625		0.359	0.008	1.63	1.98			1.63
		Back	2.645	1.007	1.193	0.040	3.65	3.84			2.69
		Left side	1.713		0.094	0.001	1.71	1.81			1.71
		Right side					0.00	0.00			0.00
		Top side	1.518		0.255	0.016	1.52	1.77			1.53
		Bottom side					0.00	0.00			0.00
	FR1 n78-PC2 Ant 3	Front	1.717		0.359	0.008	1.72	2.08			1.73
		Back	2.645	1.007	1.193	0.040	3.65	3.84			2.69
		Left side	1.713		0.094	0.001	1.71	1.81			1.71
		Right side					0.00	0.00			0.00
		Top side	1.604		0.255	0.016	1.60	1.86			1.62
		Bottom side					0.00	0.00			0.00

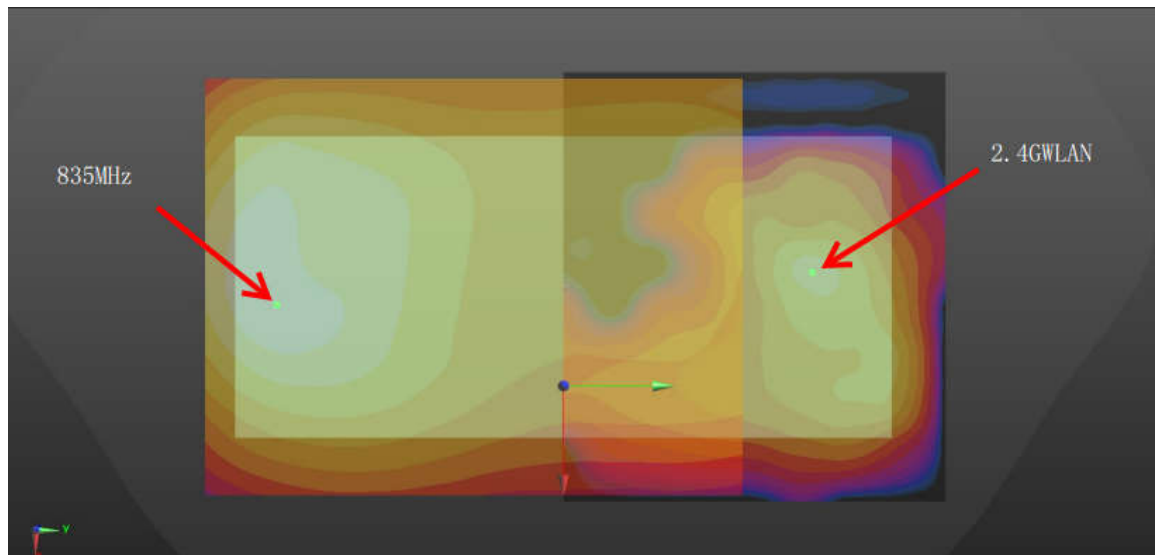
Remark:

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.

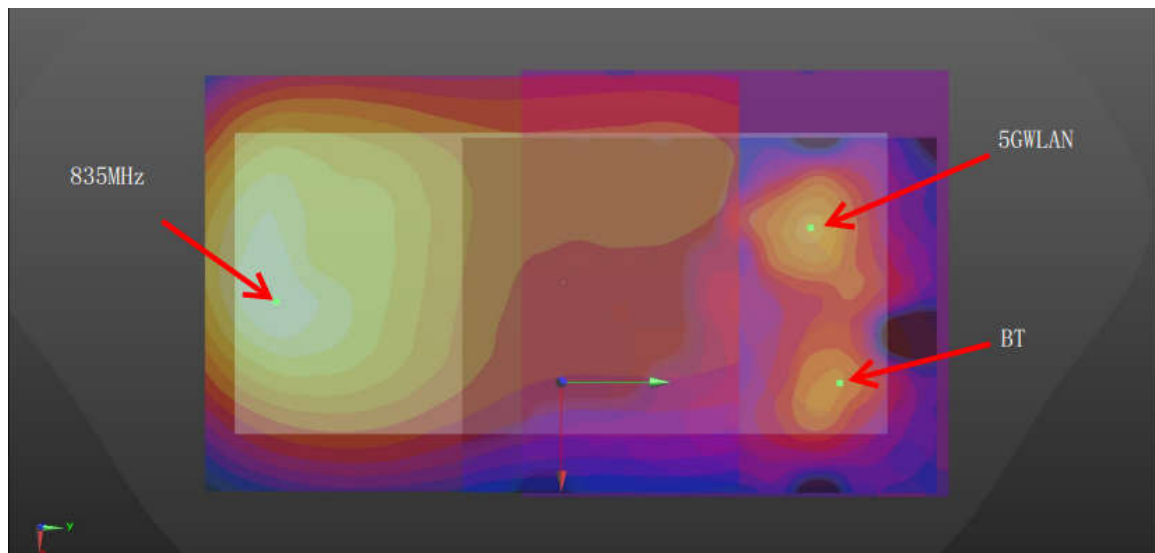
17.6 SPLSR Evaluation and Analysis

General Note:

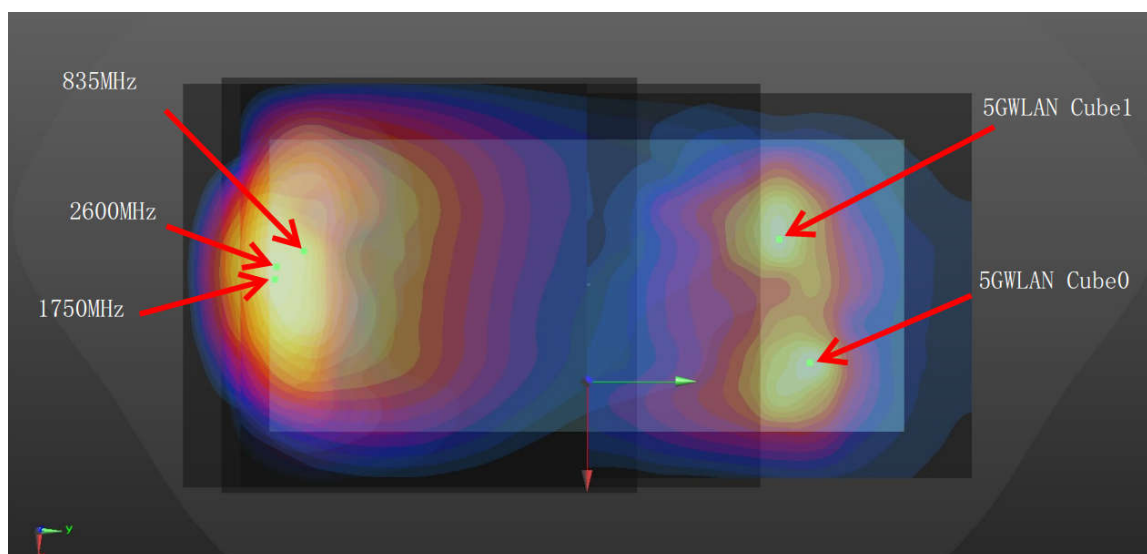
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in 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_Back 5mm



WWAN+WLAN5GHz+Bluetooth_Back 5mm


WWAN+WLAN5GHz_Back 0mm

Hotspot/Body worn WWAN+WLAN2.4GHz_5mm											
Case No 1	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM850	Back	1.233	5	-0.0205	-0.077	-0.209				
WLAN2.4GHz	0.437		5	-0.0286	0.0624	-0.209					
Case No 2	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V	Back	1.257	5	-0.0205	-0.072	-0.209				
WLAN2.4GHz	0.437		5	-0.0286	0.0624	-0.209					
Case No 3	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 5	Back	1.221	5	-0.019	-0.0765	-0.209				
WLAN2.4GHz	0.437		5	-0.0286	0.0624	-0.209					
Hotspot WWAN+WLAN5GHz+Bluetooth_5mm											
Case No 4	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM850	Back	1.233	5	-0.0205	-0.077	-0.209	141.7	1.53	0.01	Not required
	WLAN5GHz		0.3	5	-0.034	0.064	-0.206				
	GSM850	Back	1.233	5	-0.0205	-0.077	-0.209	147.6	1.38	0.01	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
	WLAN5GHz	Back	0.3	5	-0.034	0.064	-0.206	14.6	0.45	0.02	Not required
Bluetooth	0.149		5	-0.048	0.068	-0.206					
Case No 5	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V	Back	1.257	5	-0.0205	-0.072	-0.209	136.7	1.56	0.01	Not required
	WLAN5GHz		0.3	5	-0.034	0.064	-0.206				
	WCDMA V	Back	1.257	5	-0.0205	-0.072	-0.209	142.7	1.41	0.01	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
	WLAN5GHz	Back	0.3	5	-0.034	0.064	-0.206	14.6	0.45	0.02	Not required
Bluetooth	0.149		5	-0.048	0.068	-0.206					
Case No 6	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				



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	LTE Band 5	Back	1.221	5	-0.019	-0.0765	-0.209	141.3	1.52	0.01	Not required
	WLAN5GHz		0.3	5	-0.034	0.064	-0.206				
	LTE Band 5	Back	1.221	5	-0.019	-0.0765	-0.209	147.4	1.37	0.01	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
	WLAN5GHz	Back	0.3	5	-0.034	0.064	-0.206	14.6	0.45	0.02	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
Body worn WWAN+WLAN5GHz+Bluetooth_5mm											
Case No 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	GSM850	Back	1.233	5	-0.0205	-0.077	-0.209	141.9	1.54	0.01	Not required
	WLAN5GHz		0.305	5	-0.036	0.064	-0.206				
	GSM850	Back	1.233	5	-0.0205	-0.077	-0.209	147.6	1.38	0.01	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
	WLAN5GHz	Back	0.305	5	-0.036	0.064	-0.206	12.6	0.45	0.02	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
Case No 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA V	Back	1.257	5	-0.0205	-0.072	-0.209	136.9	1.56	0.01	Not required
	WLAN5GHz		0.305	5	-0.036	0.064	-0.206				
	WCDMA V	Back	1.257	5	-0.0205	-0.072	-0.209	142.7	1.41	0.01	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
	WLAN5GHz	Back	0.305	5	-0.036	0.064	-0.206	12.6	0.45	0.02	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
Case No 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5	Back	1.221	5	-0.019	-0.0765	-0.209	141.6	1.53	0.01	Not required
	WLAN5GHz		0.305	5	-0.036	0.064	-0.206				
	LTE Band 5	Back	1.221	5	-0.019	-0.0765	-0.209	147.4	1.37	0.01	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
	WLAN5GHz	Back	0.305	5	-0.036	0.064	-0.206	12.6	0.45	0.02	Not required
	Bluetooth		0.149	5	-0.048	0.068	-0.206				
Product specific 10g SAR WWAN+WLAN5GHz_0mm											
Case No 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA V	Back	2.909	0	-0.034	-0.0735	-0.21	132.4	4.10	0.06	Not required
	WLAN5GHz		1.193	0	-0.002	0.055	-0.209				
	WCDMA V	Back	2.909	0	-0.034	-0.0735	-0.21	120.6	3.93	0.06	Not required
	WLAN5GHz		1.019	0	-0.038	0.047	-0.209				
Case No 11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 66	Back	2.9	0	-0.0375	-0.078	-0.209	137.7	4.09	0.06	Not required
	WLAN5GHz		1.193	0	-0.002	0.055	-0.209				
	LTE Band 66	Back	2.9	0	-0.0375	-0.078	-0.209	125.0	3.92	0.06	Not required
	WLAN5GHz		1.019	0	-0.038	0.047	-0.209				
Case No 12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7	Back	2.945	0	-0.0298	-0.0806	-0.209	138.4	4.14	0.06	Not required
	WLAN5GHz		1.193	0	-0.002	0.055	-0.209				
	LTE Band 7	Back	2.945	0	-0.0298	-0.0806	-0.209	127.9	3.96	0.06	Not required
	WLAN5GHz		1.019	0	-0.038	0.047	-0.209				
Case No 14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66	Back	2.951	0	-0.0265	-0.081	-0.209	138.2	4.14	0.06	Not required
	WLAN5GHz		1.193	0	-0.002	0.055	-0.209				

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	FR1 n66	Back	2.951	0	-0.0265	-0.081	-0.209	128.5	3.97	0.06	Not required
	WLAN5GHz		1.019	0	-0.038	0.047	-0.209				
Case No 15	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7	Back	2.931	0	-0.042	-0.0818	-0.209	142.5	4.12	0.06	Not required
	WLAN5GHz		1.193	0	-0.002	0.055	-0.209				
	FR1 n7	Back	2.931	0	-0.042	-0.0818	-0.209	128.9	3.95	0.06	Not required
	WLAN5GHz		1.019	0	-0.038	0.047	-0.209				
Case No 16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41	Back	2.837	0	-0.0214	-0.0734	-0.209	129.9	4.03	0.06	Not required
	WLAN5GHz		1.193	0	-0.002	0.055	-0.209				
	FR1 n41	Back	2.837	0	-0.0214	-0.0734	-0.209	121.5	3.86	0.06	Not required
	WLAN5GHz		1.019	0	-0.038	0.047	-0.209				

18. Supplemental tuner tests results

General Note:

1. This device implements aperture tuner (17 status) + impedance tuner (144 status) antenna tuning techniques in the WCDMA V, LTE Band 12/26 for ANT1.
2. This device implements impedance tuner (144 status) antenna tuning techniques in the WCDMA IV/II, LTE B66/2/7/41, n66/n7/n41 for ANT0.
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 144 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 : Hank Huang, Bin He, David Dai

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 $\leq 30\%$, 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.

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.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k 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) (±%)
Measurement System							
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
Phantom and Device Errors							
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
Correction to the SAR results							
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
Combined Std. Uncertainty						14.9%	14.8%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						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:1099

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

Medium: HSL_750_210519 Medium parameters used: $f = 750$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.019$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.85, 9.85, 9.85); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 2.93 W/kg

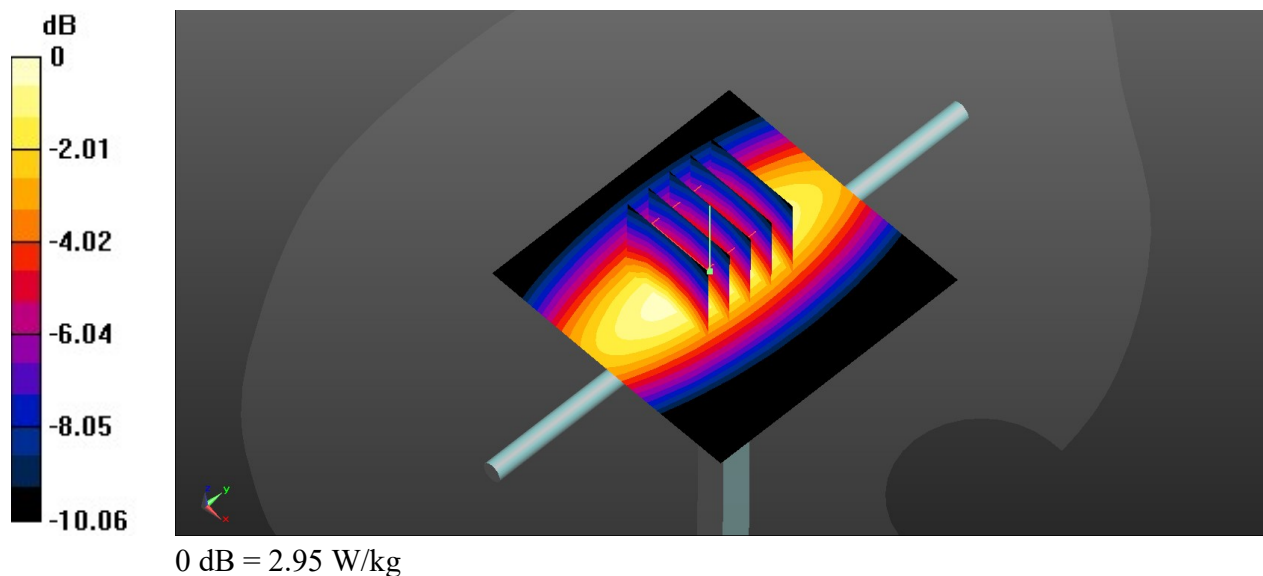
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.67 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.48 W/kg

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



System Check_Head_750MHz

DUT: D750V3-SN:1099

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

Medium: HSL_750_210530 Medium parameters used: $f = 750$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 40.797$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.85, 9.85, 9.85); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 2.81 W/kg

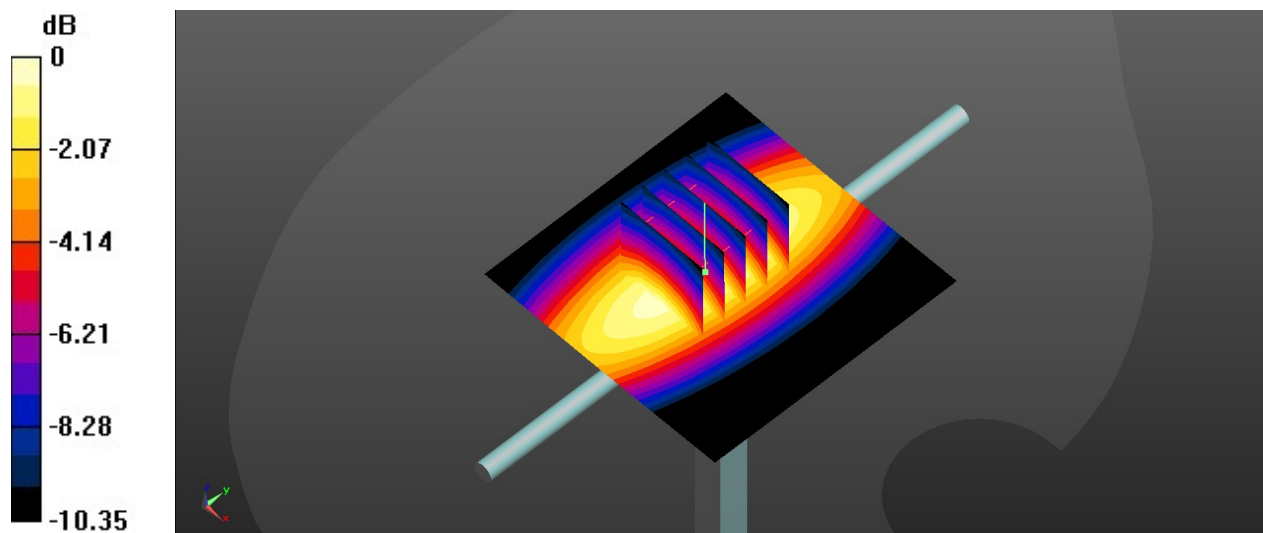
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.69 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.44 W/kg

Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg

System Check_Head_835MHz

DUT: D835V2-SN:4d162

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

Medium: HSL_835_210520 Medium parameters used: $f = 835$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.98$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 3.45 W/kg

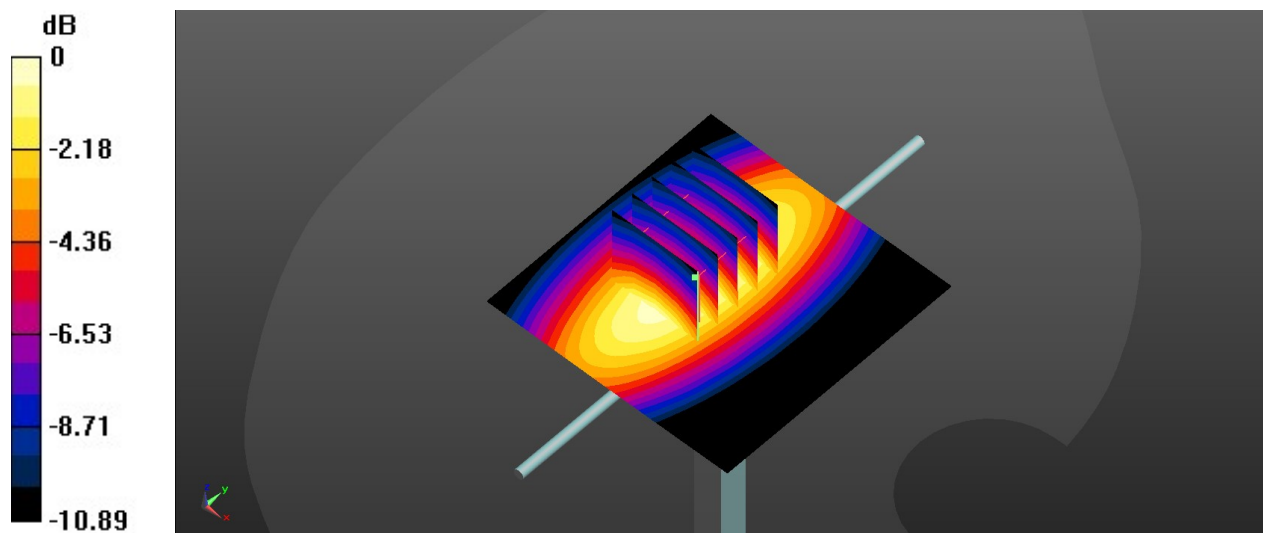
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.84 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.66 W/kg

Maximum value of SAR (measured) = 3.38 W/kg



0 dB = 3.45 W/kg

System Check_Head_835MHz

DUT: D835V2-SN:4d162

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

Medium: HSL_835_210531 Medium parameters used: $f = 835$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 40.859$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 3.44 W/kg

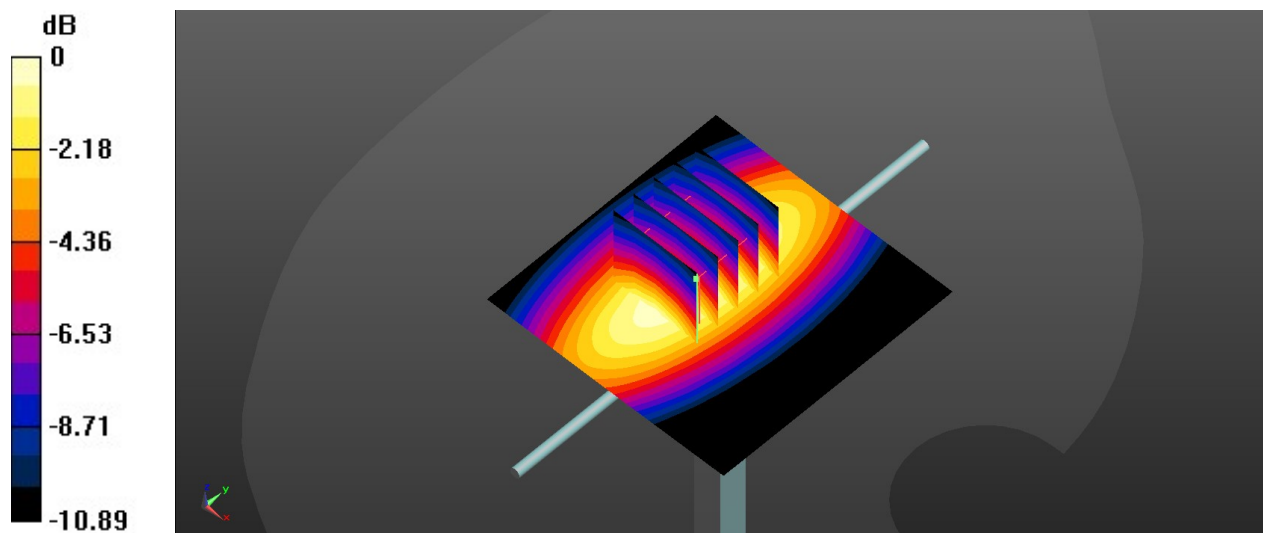
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 59.84 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.65 W/kg

Maximum value of SAR (measured) = 3.37 W/kg



0 dB = 3.37 W/kg

System Check_Head_1750MHz

DUT: D1750V2-SN:1137

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

Medium: HSL_1750_210521 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.62, 8.62, 8.62); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

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

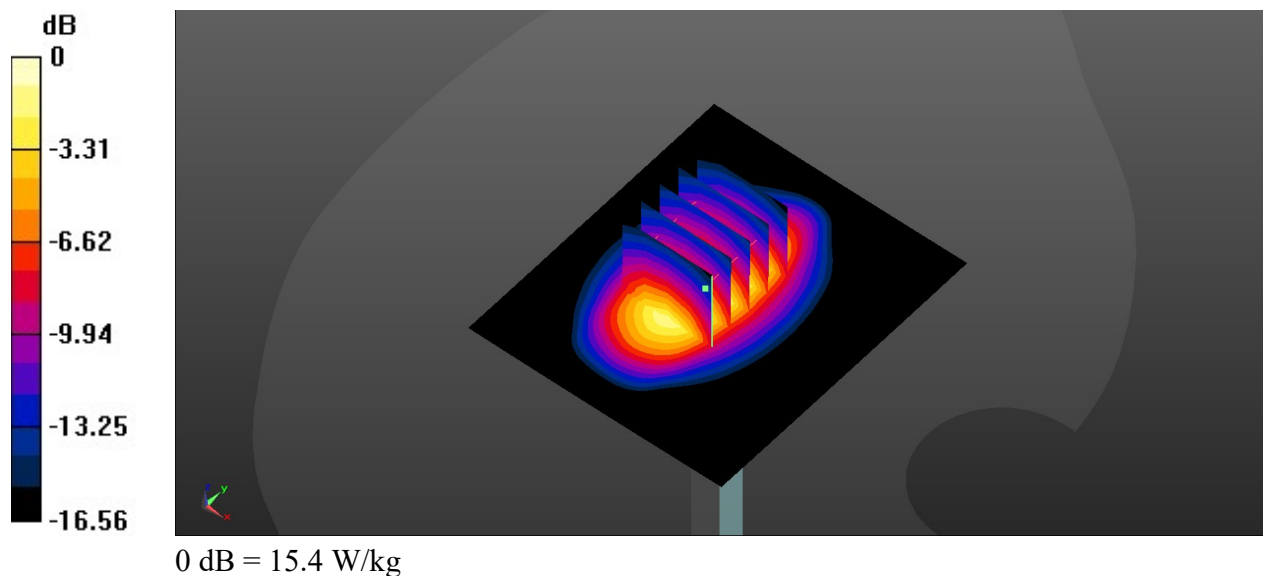
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.05 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.69 W/kg; SAR(10 g) = 5.22 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1137

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

Medium: HSL_1750_210601 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 41.359$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.62, 8.62, 8.62); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

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

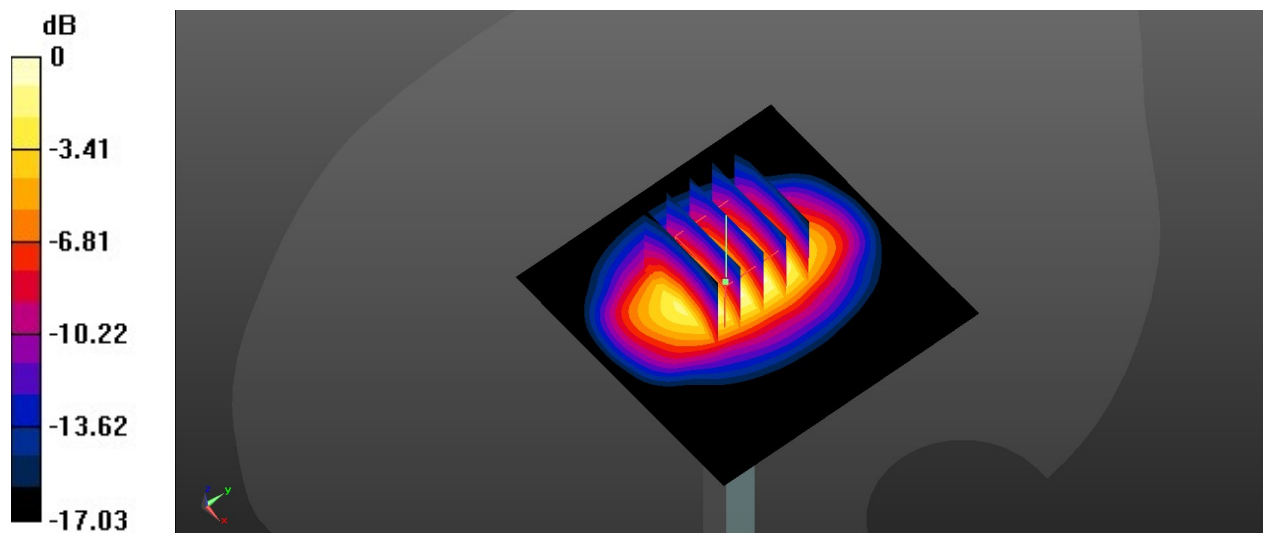
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 86.44 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.45 W/kg; SAR(10 g) = 5.02 W/kg

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



0 dB = 13.4 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_210523 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 41.133$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 16.1 W/kg

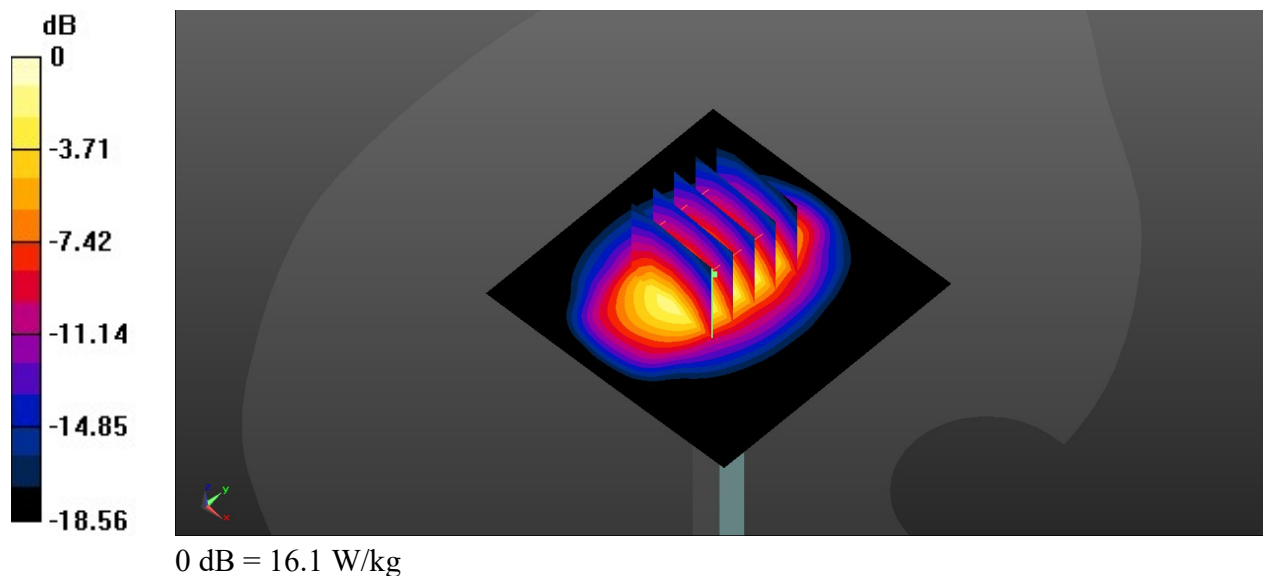
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 102.5 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 19.9 W/kg

SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.35 W/kg

Maximum value of SAR (measured) = 16.4 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_210603 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 40.038$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 16.4 W/kg

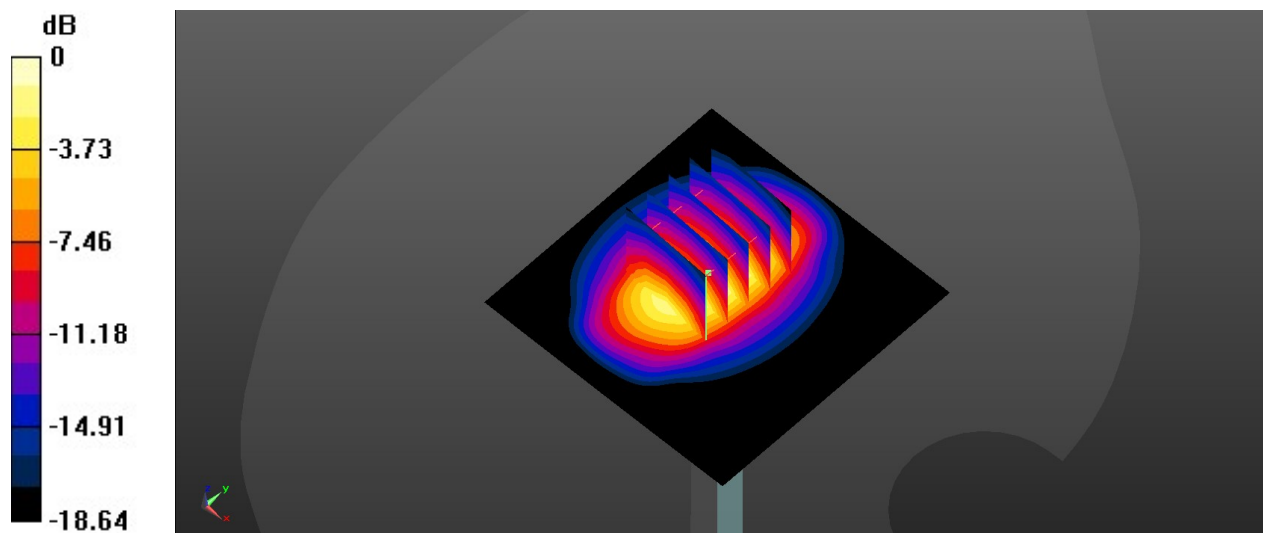
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 87.86 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.3 W/kg

Maximum value of SAR (measured) = 16.4 W/kg



0 dB = 16.4 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_210525 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.861$ S/m; $\epsilon_r = 39.575$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 21.6 W/kg

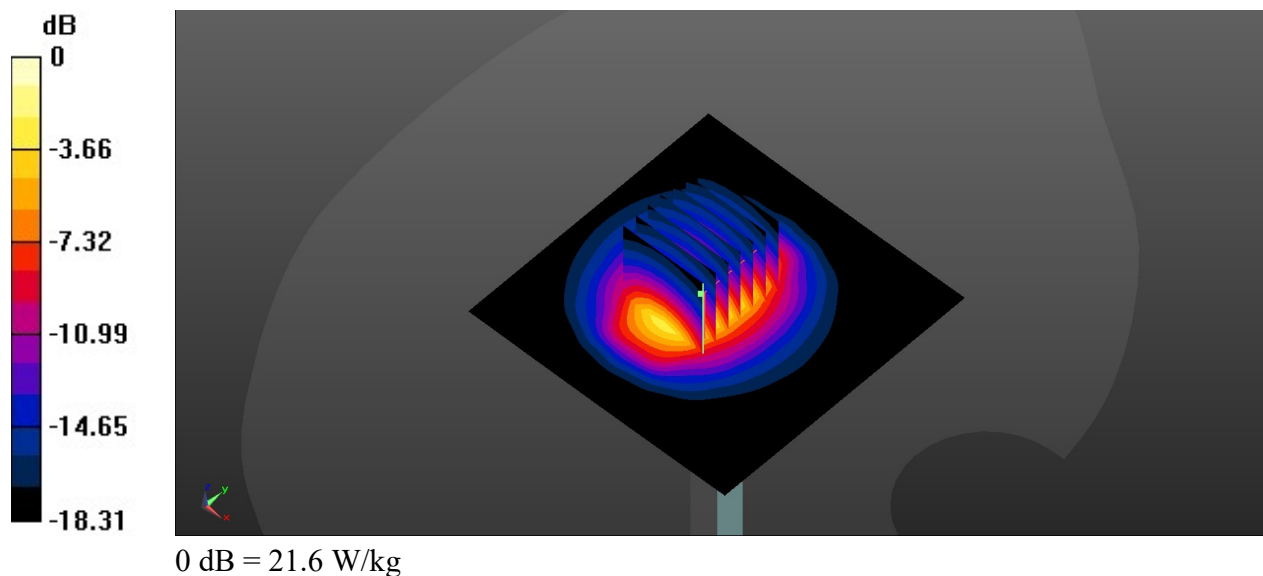
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.62 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 29.0 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.38 W/kg

Maximum value of SAR (measured) = 21.3 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_210606 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.758$ S/m; $\epsilon_r = 39.247$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 20.4 W/kg

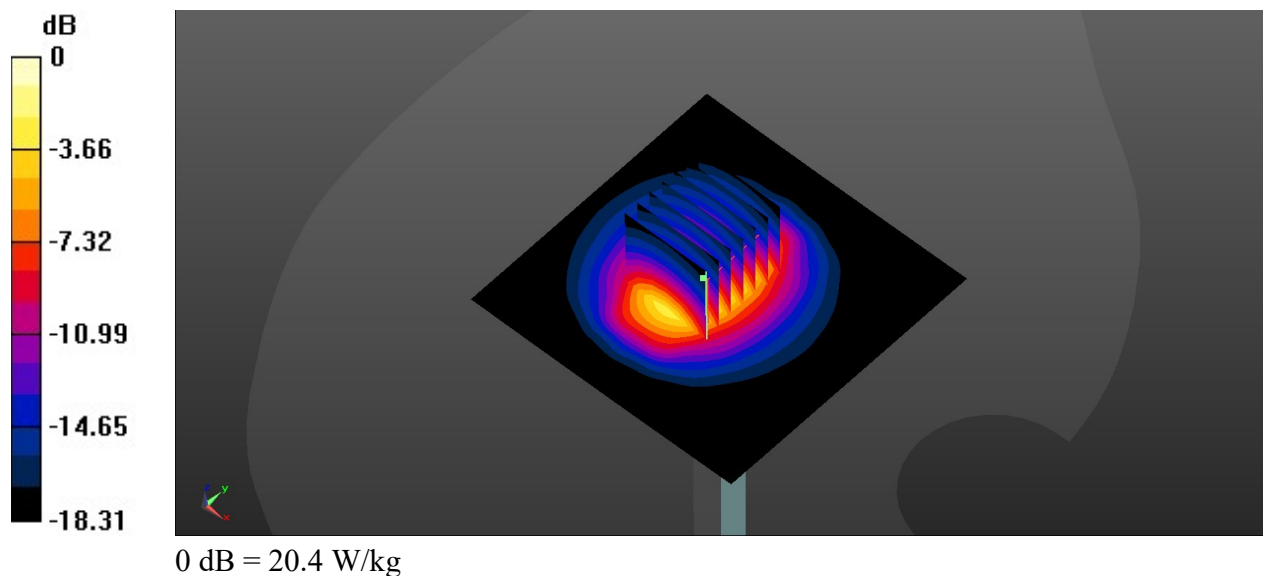
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.62 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6.02 W/kg

Maximum value of SAR (measured) = 20.2 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_210526 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.894$ S/m; $\epsilon_r = 40.24$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 22.6 W/kg

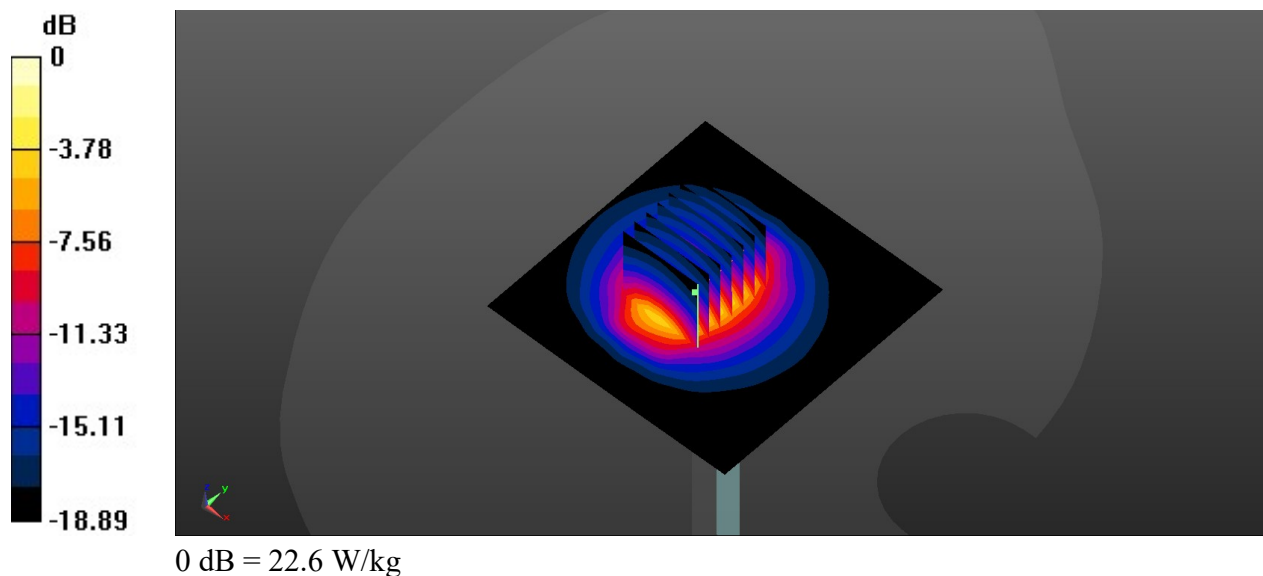
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.16 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 31.0 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.25 W/kg

Maximum value of SAR (measured) = 22.1 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_210607 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39.818$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 22.9 W/kg

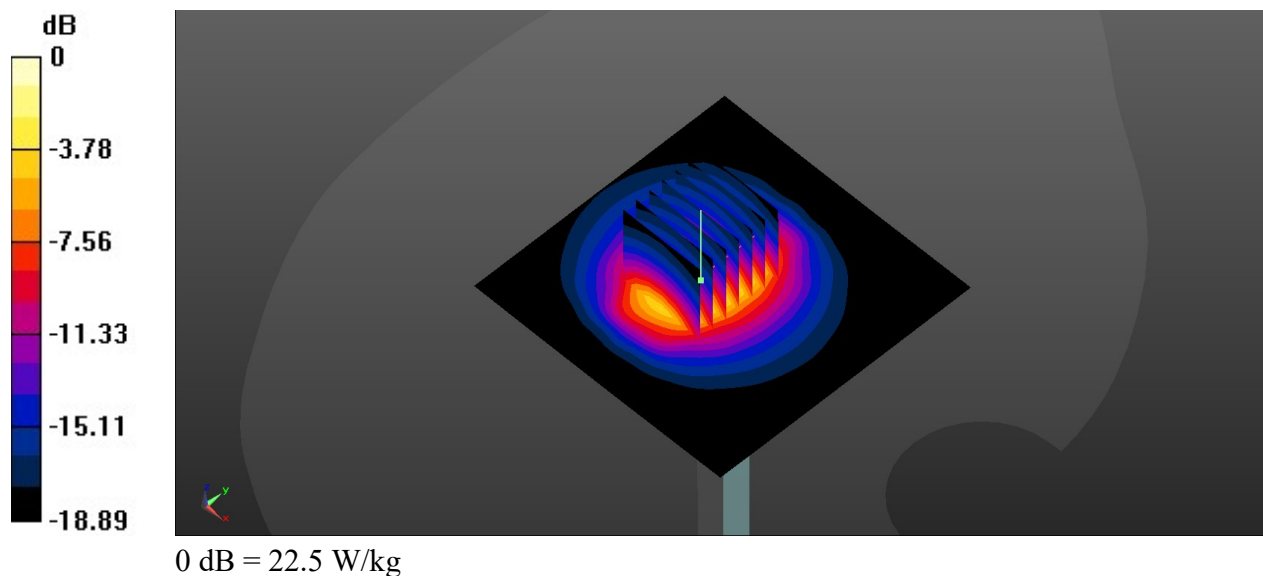
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.16 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.35 W/kg

Maximum value of SAR (measured) = 22.5 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_210617 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.892$ S/m; $\epsilon_r = 36.651$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(6.69, 6.69, 6.69); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 13.5 W/kg

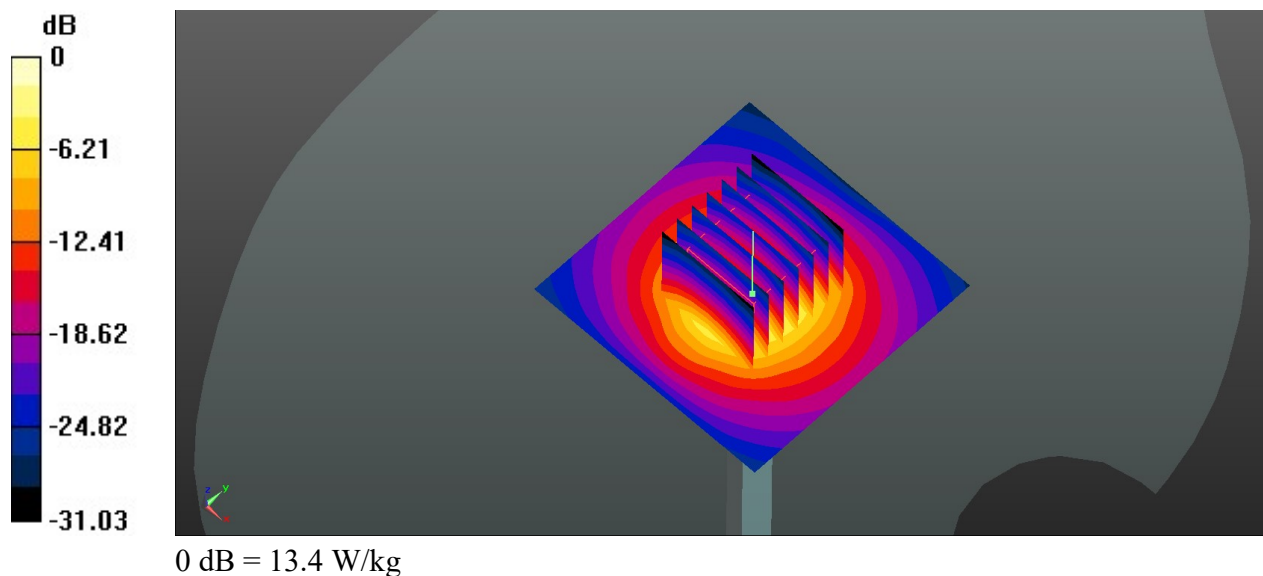
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm

Reference Value = 71.55 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 6.74 W/kg; SAR(10 g) = 2.53 W/kg

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



System Check_Head_5250MHz**DUT: D5GHzV2-SN:1167**

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

Medium: HSL_5250_210609 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.767$ S/m; $\epsilon_r = 36.978$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 20.3 W/kg

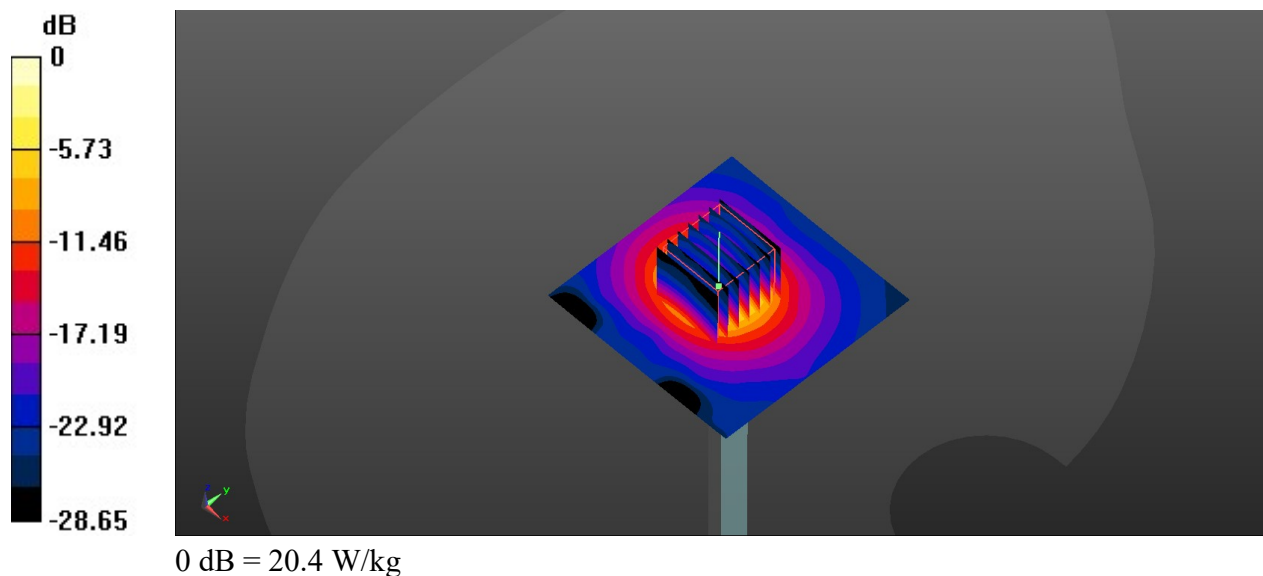
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 61.82 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 33.9 W/kg

SAR(1 g) = 8.37 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 20.4 W/kg



System Check_Head_5250MHz**DUT: D5GHzV2-SN:1167**

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

Medium: HSL_5250_210614 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 36.854$;

$\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

Maximum value of SAR (interpolated) = 19.5 W/kg

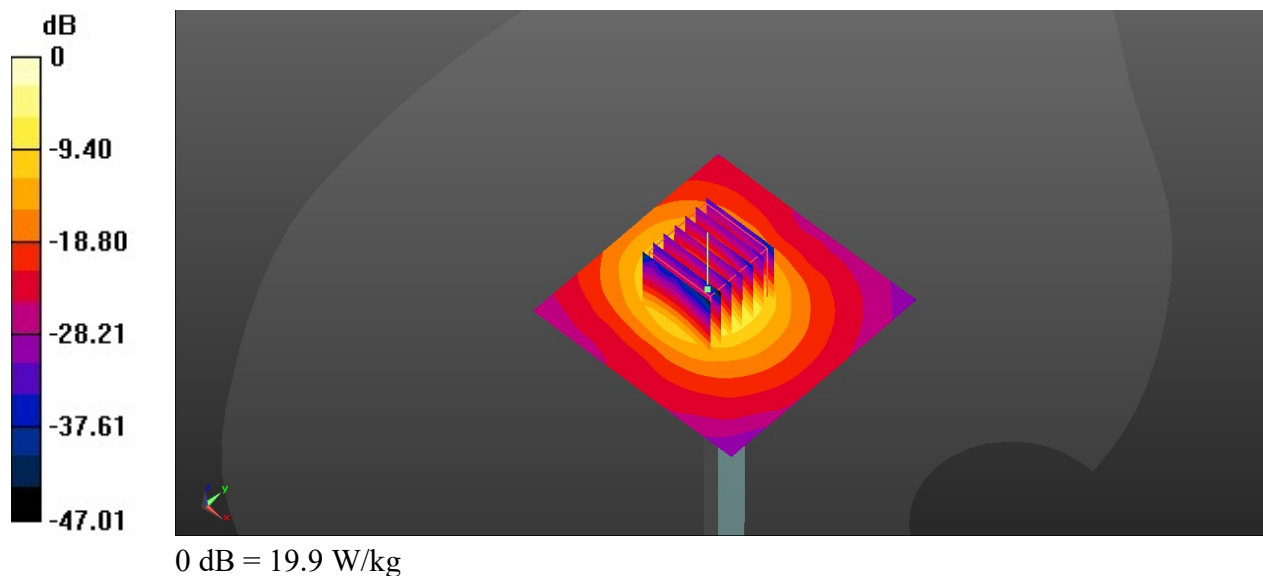
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.69 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



System Check_Head_5600MHz

DUT: D5GHzV2-SN:1167

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

Medium: HSL_5600_210610 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.182$ S/m; $\epsilon_r = 36.105$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(4.79, 4.79, 4.79); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

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

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

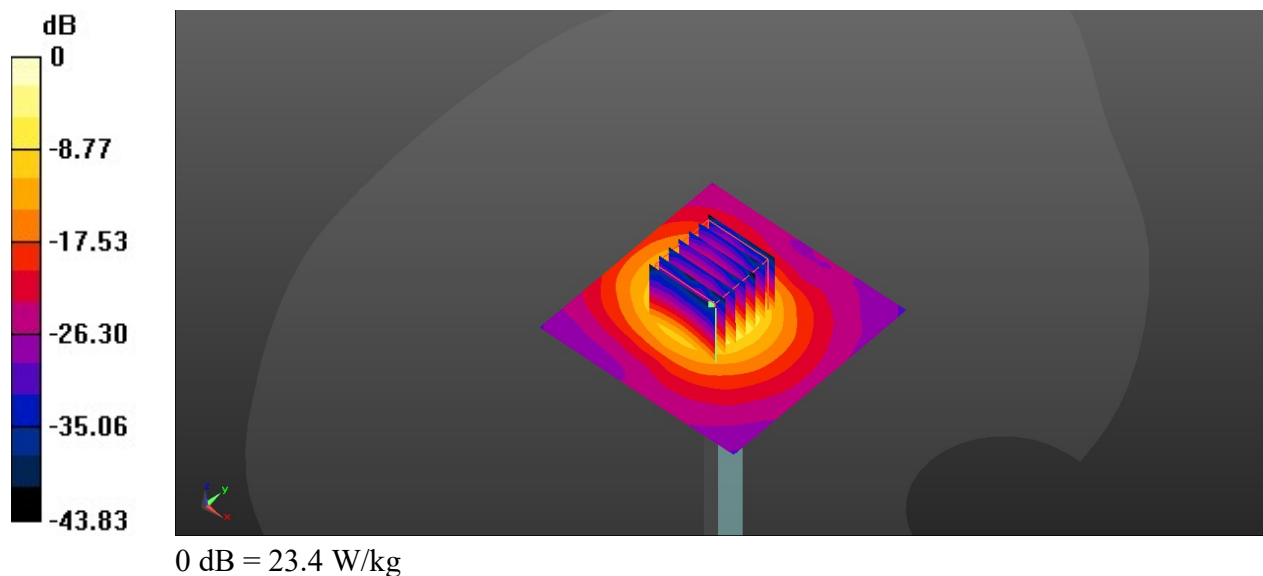
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 56.25 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 41.2 W/kg

SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 23.3 W/kg



System Check_Head_5600MHz

DUT: D5GHzV2-SN:1167

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: HSL_5600_210616 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.006$ S/m; $\epsilon_r = 36.08$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.8 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(4.79, 4.79, 4.79); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 23.0 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 54.66 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 40.4 W/kg
SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.38 W/kg
Maximum value of SAR (measured) = 22.8 W/kg

