

FCC SAR Test Report

With Power Reduction

Power Measurements for Intra-Band Contiguous Downlink CA (4*4 MIMO)

CA Combination	PCC								SCC1				SCC2				Power	
	LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	RB Size	RB Offset	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)
CA_2C	2	20	19100	1900	1	0	1100	1980	2	20	902	1960.2	-	-	-	-	10.34	10.29
CA_66D	66	20	132072	1720	1	0	66536	2120	66	20	66734	2139.8	66	20	66932	2159.6	10.28	10.12

Power Measurements for Intra-Band Non-Contiguous Downlink CA (4*4 MIMO)

CA Combination	PCC								SCC1				SCC2				SCC3				Power	
	LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	RB Size	RB Offset	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)
CA_41A-41D	41	20	39750	2506	1	0	39750	2506	41	20	40620	2593	41	20	40818	2612.8	41	20	41016	2632.6	10.54	10.36
CA_66A-66C	66	20	132072	1720	1	0	66536	2120	66	20	66786	2145	66	20	66984	2164.8	-	-	-	-	10.28	10.12

Power Measurements for Inter-Band Downlink CA (4*4 MIMO)

CA Combination	PCC								SCC1				SCC2				SCC3				Power	
	LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	RB Size	RB Offset	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Tx Power with DL-CA Active (dBm)	Single Carrier Tx Power (dBm)
CA_2A-17A	2	10	19150	1905	1	0	1150	1985	17	10	5790	740	-	-	-	-	-	-	-	-	10.24	10.12
CA_4A-5A	4	20	20050	1720	1	0	2050	2120	5	10	2515	880.5	-	-	-	-	-	-	-	-	10.62	10.33
CA_4A-17A	4	10	20000	1715	1	0	2000	2115	17	10	5790	740	-	-	-	-	-	-	-	-	10.21	10.14
CA_25A-26A	25	20	26590	1950	1	0	8590	1985	26	15	8865	876.5	-	-	-	-	-	-	-	-	11.33	11.26
CA_5A-7A-7A	5	10	20600	844	1	0	2600	889	7	20	2850	2630	7	20	3350	2680	-	-	-	-	17.89	17.84
CA_2A-4A-12A	2	20	19100	1900	1	0	1100	1980	4	20	2175	2132.5	12	10	5095	737.5	-	-	-	-	10.34	10.21
CA_2A-4A-13A	2	20	19100	1900	1	0	1100	1980	4	20	2175	2132.5	13	10	5230	751	-	-	-	-	10.34	10.32
CA_2A-4A-30A	2	20	19100	1900	1	0	1100	1980	4	20	2175	2132.5	30	10	9820	2355	-	-	-	-	10.34	10.18
CA_2A-7A-12A	2	20	19100	1900	1	0	1100	1980	7	20	2850	2630	12	10	5095	737.5	-	-	-	-	10.34	10.25
CA_2A-12A-30A	2	20	19100	1900	1	0	1100	1980	12	10	5095	737.5	30	10	9820	2355	-	-	-	-	10.34	10.26
CA_2A-14A-30A	2	20	19100	1900	1	0	1100	1980	14	10	5330	763	30	10	9820	2355	-	-	-	-	10.34	10.3
CA_2A-30A-66A	2	20	19100	1900	1	0	1100	1980	30	10	9820	2355	66	20	66786	2145	-	-	-	-	10.34	10.27
CA_25A-41D	25	20	26590	1905	1	0	8590	1985	41	20	40620	2593	41	20	40818	2612.8	41	20	41016	2632.6	11.33	11.21
CA_2A-4A-7C	2	20	19100	1900	1	0	1100	1980	4	20	2175	2132.5	7	20	3100	2655	7	20	3298	2674.8	10.34	9.53
CA_2A-5A-66C	2	20	19100	1900	1	0	1100	1980	5	10	2515	880.5	66	20	66786	2145	66	20	66984	2164.8	10.34	10.24
CA_2A-5B-30A	2	20	19100	1900	1	0	1100	1980	5	10	2501	879.1	5	10	2600	889	30	10	9820	2355	10.34	10.29
CA_2A-5B-66A	2	20	19100	1900	1	0	1100	1980	5	10	2501	879.1	5	10	2600	889	66	20	66786	2145	10.34	10.28
CA_2A-12A-66C	2	20	19100	1900	1	0	1100	1980	12	10	5095	737.5	66	20	66786	2145	66	20	66984	2164.8	10.34	10.27
CA_2A-13A-66C	2	20	19100	1900	1	0	1100	1980	13	10	5230	751	66	20	66786	2145	66	20	66984	2164.8	10.34	10.27

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- (4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

FCC SAR Test Report

4.7.2 SAR Results for Body Exposure Condition

Laptop PC Mode

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
01	WCDMA II	RMC12.2K	Bottom	0	9538	13.5	13.44	1.01	0.09	0.204	0.21
	WCDMA II	RMC12.2K	Bottom	0	9262	13.5	13.18	1.08	-0.02	0.219	0.24
	WCDMA II	RMC12.2K	Bottom	0	9400	13.5	13.19	1.07	0.01	0.212	0.23
02	WCDMA IV	RMC12.2K	Bottom	0	1413	13.5	13.41	1.02	-0.05	0.223	0.23
	WCDMA IV	RMC12.2K	Bottom	0	1312	13.5	13.26	1.06	0.03	0.207	0.22
	WCDMA V	RMC12.2K	Bottom	0	1513	13.5	13.15	1.08	-0.09	0.203	0.22
03	WCDMA V	RMC12.2K	Bottom	0	4132	18.5	18.46	1.01	0	0.668	0.67
	WCDMA V	RMC12.2K	Bottom	0	4182	18.5	18.44	1.01	-0.09	0.655	0.66
	WCDMA V	RMC12.2K	Bottom	0	4233	18.5	18.27	1.05	0.11	0.632	0.67

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
05	LTE 4	QPSK20M	Bottom	0	20050	1	0	13.5	13.28	1.05	0.08	0.481	0.51
	LTE 4	QPSK20M	Bottom	0	20050	50	0	13.5	13.24	1.06	0.01	0.480	0.51
	LTE 4	QPSK20M	Bottom	0	20175	1	0	13.5	13.22	1.07	-0.15	0.491	0.52
	LTE 4	QPSK20M	Bottom	0	20300	1	0	13.5	13.21	1.07	-0.05	0.496	0.53

Plot No.	Uplink Mode	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
06	Single Carrier (CA inactive)	LTE 5	QPSK10M	Bottom	0	20450	1	0	18.0	17.96	1.01	-0.07	0.625	0.63
		LTE 5	QPSK10M	Bottom	0	20450	25	0	18.0	17.83	1.04	0.08	0.610	0.63
		LTE 5	QPSK10M	Bottom	0	20525	1	0	18.0	17.92	1.02	0.01	0.597	0.61
		LTE 5	QPSK10M	Bottom	0	20600	1	0	18.0	17.93	1.02	-0.13	0.608	0.62
06	2CC (CA active)	LTE 5	QPSK10M	Bottom	0	PCC:20450 SCC:20549	PCC:1 SCC:1	PCC:49 SCC:0	18.0	17.92	1.02	-0.12	0.604	0.62
		LTE 5	QPSK10M	Bottom	0	PCC:20476 SCC:20575	PCC:1 SCC:1	PCC:49 SCC:0	18.0	17.56	1.11	-0.01	0.557	0.62
		LTE 5	QPSK10M	Bottom	0	PCC:20501 SCC:20600	PCC:1 SCC:1	PCC:49 SCC:0	18.0	17.72	1.07	0.13	0.573	0.61
08	Single Carrier (CA inactive)	LTE 7	QPSK20M	Bottom	0	21350	1	0	11.5	11.43	1.02	0.05	0.264	0.27
		LTE 7	QPSK20M	Bottom	0	21350	50	0	11.5	11.42	1.02	0.08	0.250	0.25
		LTE 7	QPSK20M	Bottom	0	20850	1	0	11.5	11.41	1.02	-0.03	0.232	0.24
		LTE 7	QPSK20M	Bottom	0	21100	1	0	11.5	11.32	1.04	-0.11	0.247	0.26
08	2CC (CA active)	LTE 7	QPSK20M	Bottom	0	PCC:20850 SCC:21048	PCC:1 SCC:1	PCC:99 SCC:0	11.5	11.17	1.08	0.03	0.233	0.25
		LTE 7	QPSK20M	Bottom	0	PCC:21100 SCC:21298	PCC:1 SCC:1	PCC:99 SCC:0	11.5	11.24	1.06	-0.08	0.241	0.26
		LTE 7	QPSK20M	Bottom	0	PCC:21152 SCC:21350	PCC:1 SCC:1	PCC:99 SCC:0	11.5	11.38	1.03	0.02	0.250	0.26

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
10	LTE 12	QPSK10M	Bottom	0	23130	1	0	18.0	17.98	1.00	-0.13	0.596	0.60
	LTE 12	QPSK10M	Bottom	0	23130	25	0	18.0	17.94	1.01	0.05	0.586	0.59
	LTE 12	QPSK10M	Bottom	0	23060	1	0	18.0	17.85	1.04	0.07	0.568	0.59
	LTE 12	QPSK10M	Bottom	0	23095	1	0	18.0	17.88	1.03	-0.11	0.575	0.59
11	LTE 13	QPSK10M	Bottom	0	23230	1	0	17.0	16.89	1.03	-0.12	0.678	0.70
	LTE 13	QPSK10M	Bottom	0	23230	25	0	17.0	16.86	1.03	-0.15	0.668	0.69
12	LTE 14	QPSK10M	Bottom	0	23330	1	0	18.5	18.25	1.06	-0.03	0.698	0.74
	LTE 14	QPSK10M	Bottom	0	23330	25	0	18.5	18.21	1.07	-0.12	0.686	0.73
	LTE 17	QPSK10M	Bottom	0	23780	1	0	19.5	19.19	1.07	0.13	0.497	0.53
	LTE 17	QPSK10M	Bottom	0	23780	25	0	19.5	19.07	1.10	0.05	0.471	0.52
13	LTE 17	QPSK10M	Bottom	0	23790	1	49	19.5	19.05	1.11	-0.02	0.499	0.55
	LTE 17	QPSK10M	Bottom	0	23800	1	49	19.5	19.06	1.11	-0.05	0.476	0.53
	LTE 25	QPSK20M	Bottom	0	26590	1	0	13.5	13.24	1.06	0.08	0.476	0.51
	LTE 25	QPSK20M	Bottom	0	26590	50	0	13.5	13.22	1.07	-0.15	0.468	0.50
14	LTE 25	QPSK20M	Bottom	0	26140	1	0	13.5	13.07	1.10	-0.13	0.475	0.52
	LTE 25	QPSK20M	Bottom	0	26365	1	0	13.5	13.03	1.11	0.08	0.492	0.55
	LTE 26	QPSK15M	Bottom	0	26865	1	0	18.5	18.24	1.06	-0.14	0.623	0.66
	LTE 26	QPSK15M	Bottom	0	26865	36	0	18.5	18.22	1.07	0.01	0.606	0.65
15	LTE 26	QPSK15M	Bottom	0	26765	1	0	18.5	18.17	1.08	-0.02	0.663	0.72
	LTE 26	QPSK15M	Bottom	0	26965	1	0	18.5	18.22	1.07	0.13	0.677	0.72
16	LTE 30	QPSK10M	Bottom	0	27710	1	0	15.0	14.65	1.08	0.05	0.424	0.46
	LTE 30	QPSK10M	Bottom	0	27710	25	0	15.0	14.65	1.08	0.01	0.413	0.45
	LTE 38	QPSK20M	Bottom	0	38000	1	0	14.0	13.86	1.03	0.06	0.233	0.24
	LTE 38	QPSK20M	Bottom	0	38000	50	0	14.0	13.84	1.04	0.04	0.231	0.24
17	LTE 38	QPSK20M	Bottom	0	37850	1	0	14.0	13.61	1.09	0.14	0.207	0.23
	LTE 38	QPSK20M	Bottom	0	38150	1	0	14.0	13.57	1.10	-0.08	0.241	0.27

Plot No.	Uplink Mode	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
18	Single Carrier (CA inactive)	LTE 41	QPSK20M	Bottom	0	40620	1	0	14.0	13.91	1.02	0.13	0.359	0.37
		LTE 41	QPSK20M	Bottom	0	40620	50	0	14.0	13.59	1.10	0.08	0.301	0.33
		LTE 41	QPSK20M	Bottom	0	39750	1	0	14.0	13.57	1.10	0.03	0.265	0.29
		LTE 41	QPSK20M	Bottom	0	40185	1	0	14.0	13.61	1.09	-0.07	0.27	0.30
		LTE 41	QPSK20M	Bottom	0	41055	1	0	14.0	13.58	1.10	0.01	0.306	0.34
		LTE 41	QPSK20M	Bottom	0	41490	1	0	14.0	13.36	1.16	-0.09	0.199	0.23
18	2CC (CA active)	LTE 41	QPSK20M	Bottom	0	PCC:39750 SCC:39948	PCC:1 SCC:1	PCC:0 SCC:99	14.0	13.26	1.19	-0.09	0.221	0.26
		LTE 41	QPSK20M	Bottom	0	PCC:40185 SCC:40383	PCC:1 SCC:1	PCC:0 SCC:99	14.0	13.32	1.17	-0.01	0.26	0.30
		LTE 41	QPSK20M	Bottom	0	PCC:40620 SCC:40818	PCC:1 SCC:1	PCC:0 SCC:99	14.0	13.38	1.15	0.02	0.319	0.37
		LTE 41	QPSK20M	Bottom	0	PCC:41055 SCC:41253	PCC:1 SCC:1	PCC:0 SCC:99	14.0	13.25	1.19	0.13	0.254	0.30
		LTE 41	QPSK20M	Bottom	0	PCC:41292 SCC:41490	PCC:1 SCC:1	PCC:0 SCC:99	14.0	13.15	1.22	0.1	0.199	0.24

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
20	LTE 66	QPSK20M	Bottom	0	132072	1	0	16.5	16.32	1.04	-0.07	0.677	0.71
	LTE 66	QPSK20M	Bottom	0	132072	50	0	16.5	16.28	1.05	0.01	0.662	0.70
	LTE 66	QPSK20M	Bottom	0	132322	1	0	16.5	16.28	1.05	0.03	0.662	0.70
	LTE 66	QPSK20M	Bottom	0	132572	1	0	16.5	16.25	1.06	-0.01	0.655	0.69

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Tx Antenna	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
21	WLAN2.4G	802.11b	Bottom	0	6	Ant 0	100.00	1.00	10.0	9.86	1.03	0.18	0.620	0.64
	WLAN2.4G	802.11b	Bottom	0	6	Ant 1	100.00	1.00	10.0	9.76	1.06	0.11	0.600	0.63
	WLAN2.4G	802.11b	Bottom	0	6	Ant 0+1	100.00	1.00	12.5	12.34	1.04	0.18	0.590	0.61
	WLAN2.4G	802.11b	Bottom	0	1	Ant 0	100.00	1.00	10.0	9.75	1.06	0.09	0.599	0.63
	WLAN2.4G	802.11b	Bottom	0	11	Ant 0	100.00	1.00	10.0	9.70	1.07	0.02	0.58	0.62
	WLAN5G	802.11ac VHT80	Bottom	0	58	Ant 0	92.40	1.08	9.0	8.96	1.01	0.16	0.547	0.60
22	WLAN5G	802.11ac VHT80	Bottom	0	58	Ant 1	92.40	1.08	9.5	9.31	1.04	-0.12	0.558	0.63
	WLAN5G	802.11ac VHT80	Bottom	0	58	Ant 0+1	92.40	1.08	12.5	12.10	1.10	-0.16	0.533	0.63
	WLAN5G	802.11ac VHT80	Bottom	0	106	Ant 0	92.40	1.08	9.0	8.86	1.03	-0.12	0.596	0.67
	WLAN5G	802.11ac VHT80	Bottom	0	106	Ant 1	92.40	1.08	9.0	8.31	1.17	0.05	0.47	0.60
23	WLAN5G	802.11ac VHT80	Bottom	0	106	Ant 0+1	92.40	1.08	12.0	11.63	1.09	-0.16	0.649	0.76
	WLAN5G	802.11ac VHT80	Bottom	0	122	Ant 0+1	92.40	1.08	12.0	11.60	1.09	-0.13	0.589	0.70
24	WLAN5G	802.11ac VHT80	Bottom	0	155	Ant 0	92.40	1.08	8.5	7.76	1.19	-0.16	0.598	0.77
	WLAN5G	802.11ac VHT80	Bottom	0	155	Ant 1	92.40	1.08	9.0	8.95	1.01	0.11	0.566	0.62
	WLAN5G	802.11ac VHT80	Bottom	0	155	Ant 0+1	92.40	1.08	11.5	11.13	1.09	-0.12	0.543	0.64
	BT	DH5	Bottom	0	78	Ant 0	76.70	1.30	6.0	5.94	1.01	0	< 0.001	0.00
	BT	DH5	Bottom	0	0	Ant 0	76.70	1.30	6.0	5.29	1.18	0	< 0.001	0.00
	BT	DH5	Bottom	0	39	Ant 0	76.70	1.30	6.0	4.17	1.52	0	< 0.001	0.00

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Tablet PC Mode

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WCDMA II	RMC12.2K	Top Side	13	9538	w/o	24.5	23.77	1.18	0.02	0.121	0.14
	WCDMA II	RMC12.2K	Rear Face	25	9538	w/o	24.5	23.77	1.18	0.13	0.213	0.25
	WCDMA II	RMC12.2K	Right Side	20	9538	w/o	24.5	23.77	1.18	0.09	0.227	0.27
	WCDMA II	RMC12.2K	Top Side	0	9538	w/	11.0	10.51	1.12	0.05	0.032	0.04
25	WCDMA II	RMC12.2K	Rear Face	0	9538	w/	11.0	10.51	1.12	-0.1	0.594	0.66
	WCDMA II	RMC12.2K	Right Side	0	9538	w/	11.0	10.51	1.12	0.09	0.166	0.19
	WCDMA II	RMC12.2K	Rear Face	0	9262	w/	11.0	10.32	1.17	0.06	0.564	0.66
	WCDMA II	RMC12.2K	Rear Face	0	9400	w/	11.0	10.21	1.20	0.01	0.545	0.65
	WCDMA IV	RMC12.2K	Top Side	13	1413	w/o	24	23.65	1.08	0.08	0.058	0.06
	WCDMA IV	RMC12.2K	Rear Face	25	1413	w/o	24	23.65	1.08	-0.09	0.271	0.29
	WCDMA IV	RMC12.2K	Right Side	20	1413	w/o	24	23.65	1.08	0.07	0.310	0.34
	WCDMA IV	RMC12.2K	Top Side	0	1413	w/	11.0	10.42	1.14	0.15	0.020	0.02
26	WCDMA IV	RMC12.2K	Rear Face	0	1413	w/	11.0	10.42	1.14	-0.08	0.575	0.66
	WCDMA IV	RMC12.2K	Right Side	0	1413	w/	11.0	10.42	1.14	-0.09	0.255	0.29
	WCDMA IV	RMC12.2K	Rear Face	0	1312	w/	11.0	10.40	1.15	0.01	0.552	0.63
	WCDMA IV	RMC12.2K	Rear Face	0	1513	w/	11.0	10.33	1.17	0.06	0.552	0.64
	WCDMA V	RMC12.2K	Top Side	13	4132	w/o	24.5	23.91	1.15	0.01	0.060	0.07
	WCDMA V	RMC12.2K	Rear Face	25	4132	w/o	24.5	23.91	1.15	-0.04	0.080	0.09
	WCDMA V	RMC12.2K	Right Side	20	4132	w/o	24.5	23.91	1.15	0.08	0.042	0.05
	WCDMA V	RMC12.2K	Top Side	0	4132	w/	18.0	17.67	1.08	0.17	0.051	0.06
27	WCDMA V	RMC12.2K	Rear Face	0	4132	w/	18.0	17.67	1.08	-0.13	0.583	0.63
	WCDMA V	RMC12.2K	Right Side	0	4132	w/	18.0	17.67	1.08	0.18	0.462	0.50
	WCDMA V	RMC12.2K	Rear Face	0	4182	w/	18.0	17.62	1.09	-0.06	0.551	0.60
	WCDMA V	RMC12.2K	Rear Face	0	4233	w/	18.0	17.48	1.13	-0.01	0.531	0.60

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Top Side	13	19100	1	0	w/o	24.5	23.89	1.15	0.01	0.071	0.08
	LTE 2	QPSK20M	Rear Face	25	19100	1	0	w/o	24.5	23.89	1.15	-0.13	0.171	0.20
	LTE 2	QPSK20M	Right Side	20	19100	1	0	w/o	24.5	23.89	1.15	0.18	0.193	0.22
	LTE 2	QPSK20M	Top Side	13	19100	50	0	w/o	23.5	22.94	1.14	0.05	0.057	0.06
	LTE 2	QPSK20M	Rear Face	25	19100	50	0	w/o	23.5	22.94	1.14	0.08	0.126	0.14
	LTE 2	QPSK20M	Right Side	20	19100	50	0	w/o	23.5	22.94	1.14	-0.04	0.168	0.19
	LTE 2	QPSK20M	Top Side	0	19100	1	0	w/	10.5	10.34	1.04	0	< 0.001	0.00
28	LTE 2	QPSK20M	Rear Face	0	19100	1	0	w/	10.5	10.34	1.04	-0.09	0.537	0.56
	LTE 2	QPSK20M	Right Side	0	19100	1	0	w/	10.5	10.34	1.04	-0.16	0.110	0.11
	LTE 2	QPSK20M	Top Side	0	19100	50	0	w/	10.5	10.30	1.05	0	< 0.001	0.00
	LTE 2	QPSK20M	Rear Face	0	19100	50	0	w/	10.5	10.30	1.05	0.08	0.418	0.44
	LTE 2	QPSK20M	Right Side	0	19100	50	0	w/	10.5	10.30	1.05	-0.04	0.102	0.11
	LTE 2	QPSK20M	Rear Face	0	18700	1	0	w/	10.5	9.83	1.17	0.05	0.439	0.51
	LTE 2	QPSK20M	Rear Face	0	18900	1	0	w/	10.5	9.94	1.14	0.06	0.443	0.50

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FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 4	QPSK20M	Top Side	13	20050	1	0	w/o	24.0	23.47	1.13	0.01	0.058	0.07
	LTE 4	QPSK20M	Rear Face	25	20050	1	0	w/o	24.0	23.47	1.13	-0.1	0.205	0.23
	LTE 4	QPSK20M	Right Side	20	20050	1	0	w/o	24.0	23.47	1.13	0.08	0.246	0.28
	LTE 4	QPSK20M	Top Side	13	20050	50	0	w/o	23.0	22.40	1.15	0.02	0.047	0.05
	LTE 4	QPSK20M	Rear Face	25	20050	50	0	w/o	23.0	22.40	1.15	0.18	0.172	0.20
	LTE 4	QPSK20M	Right Side	20	20050	50	0	w/o	23.0	22.40	1.15	-0.1	0.212	0.24
	LTE 4	QPSK20M	Top Side	0	20050	1	0	w/	10.7	10.62	1.02	0	0.001	0.00
29	LTE 4	QPSK20M	Rear Face	0	20050	1	0	w/	10.7	10.62	1.02	-0.05	0.512	0.52
	LTE 4	QPSK20M	Right Side	0	20050	1	0	w/	10.7	10.62	1.02	0.08	0.18	0.18
	LTE 4	QPSK20M	Top Side	0	20050	50	0	w/	10.7	10.33	1.09	0	< 0.001	0.00
	LTE 4	QPSK20M	Rear Face	0	20050	50	0	w/	10.7	10.33	1.09	-0.16	0.451	0.49
	LTE 4	QPSK20M	Right Side	0	20050	50	0	w/	10.7	10.33	1.09	-0.08	0.167	0.18
	LTE 4	QPSK20M	Rear Face	0	20175	1	0	w/	10.7	10.40	1.07	0.05	0.478	0.51
	LTE 4	QPSK20M	Rear Face	0	20300	1	0	w/	10.7	10.33	1.09	0.07	0.467	0.51

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Plot No.	Uplink Mode	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	Single Carrier (CA inactive)	LTE 5	QPSK10M	Top Side	13	20450	1	0	w/o	24.5	23.68	1.21	0	0.001	0.00
		LTE 5	QPSK10M	Rear Face	25	20450	1	0	w/o	24.5	23.68	1.21	-0.08	0.084	0.10
		LTE 5	QPSK10M	Right Side	20	20450	1	0	w/o	24.5	23.68	1.21	-0.13	0.051	0.06
		LTE 5	QPSK10M	Top Side	13	20450	25	0	w/o	23.5	22.74	1.19	0	< 0.001	0.00
		LTE 5	QPSK10M	Rear Face	25	20450	25	0	w/o	23.5	22.74	1.19	-0.1	0.059	0.07
		LTE 5	QPSK10M	Right Side	20	20450	25	0	w/o	23.5	22.74	1.19	-0.15	0.045	0.05
30		LTE 5	QPSK10M	Top Side	0	20450	1	0	w/	18.0	17.89	1.03	0.05	0.055	0.06
		LTE 5	QPSK10M	Rear Face	0	20450	1	0	w/	18.0	17.89	1.03	-0.1	0.663	0.68
		LTE 5	QPSK10M	Right Side	0	20450	1	0	w/	18.0	17.89	1.03	-0.15	0.442	0.45
		LTE 5	QPSK10M	Top Side	0	20450	25	0	w/	18.0	17.59	1.10	0	0.053	0.06
		LTE 5	QPSK10M	Rear Face	0	20450	25	0	w/	18.0	17.59	1.10	0.18	0.621	0.68
		LTE 5	QPSK10M	Right Side	0	20450	25	0	w/	18.0	17.59	1.10	0.08	0.311	0.34
		LTE 5	QPSK10M	Rear Face	0	20525	1	0	w/	18.0	17.47	1.13	0.06	0.577	0.65
		LTE 5	QPSK10M	Rear Face	0	20600	1	0	w/	18.0	17.52	1.12	0.05	0.589	0.66
	2CC (CA active)	LTE 5	QPSK10M	Rear Face	0	PCC:20450 SCC:20549	PCC:1 SCC:1	PCC:49 SCC:0	w/	18.0	17.28	1.18	-0.14	0.559	0.66
		LTE 5	QPSK10M	Rear Face	0	PCC:20476 SCC:20575	PCC:1 SCC:1	PCC:49 SCC:0	w/	18.0	17.21	1.20	-0.05	0.545	0.65
		LTE 5	QPSK10M	Rear Face	0	PCC:20501 SCC:20600	PCC:1 SCC:1	PCC:49 SCC:0	w/	18.0	17.37	1.16	-0.06	0.574	0.66

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FCC SAR Test Report

Plot No.	Uplink Mode	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
32	Single Carrier (CA inactive)	LTE 7	QPSK20M	Top Side	13	21350	1	0	w/o	24.0	23.48	1.13	0.01	0.078	0.09
		LTE 7	QPSK20M	Rear Face	25	21350	1	0	w/o	24.0	23.48	1.13	-0.04	0.648	0.73
		LTE 7	QPSK20M	Right Side	20	21350	1	0	w/o	24.0	23.48	1.13	-0.03	0.799	0.90
		LTE 7	QPSK20M	Top Side	13	21350	50	0	w/o	23.0	22.44	1.14	0.08	0.058	0.07
		LTE 7	QPSK20M	Rear Face	25	21350	50	0	w/o	23.0	22.44	1.14	-0.04	0.605	0.69
		LTE 7	QPSK20M	Right Side	20	21350	50	0	w/o	23.0	22.44	1.14	-0.1	0.563	0.64
		LTE 7	QPSK20M	Top Side	0	21350	1	0	w/	11.0	10.89	1.03	0	< 0.001	0.00
		LTE 7	QPSK20M	Rear Face	0	21350	1	0	w/	11.0	10.89	1.03	0.18	0.647	0.66
		LTE 7	QPSK20M	Right Side	0	21350	1	0	w/	11.0	10.89	1.03	0.18	0.125	0.13
		LTE 7	QPSK20M	Top Side	0	21350	50	0	w/	11.0	10.74	1.06	0	< 0.001	0.00
		LTE 7	QPSK20M	Rear Face	0	21350	50	0	w/	11.0	10.74	1.06	-0.13	0.623	0.66
		LTE 7	QPSK20M	Right Side	0	21350	50	0	w/	11.0	10.74	1.06	0.18	0.131	0.14
		LTE 7	QPSK20M	Right Side	0	20850	1	0	w/o	24.0	23.43	1.14	-0.12	0.619	0.71
		LTE 7	QPSK20M	Right Side	0	21100	1	0	w/o	24.0	23.36	1.16	-0.02	0.715	0.83
	2CC (CA active)	LTE 7	QPSK20M	Right Side	20	PCC:20850 SCC:21048	PCC:1 SCC:1	PCC:99 SCC:0	w/o	24.0	23.31	1.17	-0.02	0.768	0.90
		LTE 7	QPSK20M	Right Side	20	PCC:21100 SCC:21298	PCC:1 SCC:1	PCC:99 SCC:0	w/o	24.0	23.12	1.22	-0.14	0.578	0.71
		LTE 7	QPSK20M	Right Side	20	PCC:21152 SCC:21350	PCC:1 SCC:1	PCC:99 SCC:0	w/o	24.0	23.28	1.18	-0.07	0.683	0.81

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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
34	LTE 12	QPSK10M	Top Side	13	23130	1	0	w/o	24.5	23.39	1.29	0	< 0.001	0.00
	LTE 12	QPSK10M	Rear Face	25	23130	1	0	w/o	24.5	23.39	1.29	-0.11	0.079	0.10
	LTE 12	QPSK10M	Right Side	20	23130	1	0	w/o	24.5	23.39	1.29	0.09	0.047	0.06
	LTE 12	QPSK10M	Top Side	13	23130	25	0	w/o	23.5	22.50	1.26	0	0.001	0.00
	LTE 12	QPSK10M	Rear Face	25	23130	25	0	w/o	23.5	22.50	1.26	-0.03	0.068	0.09
	LTE 12	QPSK10M	Right Side	20	23130	25	0	w/o	23.5	22.50	1.26	-0.11	0.042	0.05
	LTE 12	QPSK10M	Top Side	0	23130	1	0	w/	17.0	16.89	1.03	0	< 0.001	0.00
	LTE 12	QPSK10M	Rear Face	0	23130	1	0	w/	17.0	16.89	1.03	-0.08	0.464	0.48
	LTE 12	QPSK10M	Right Side	0	23130	1	0	w/	17.0	16.89	1.03	-0.03	0.333	0.34
	LTE 12	QPSK10M	Top Side	0	23130	25	0	w/	17.0	16.83	1.04	0	< 0.001	0.00
	LTE 12	QPSK10M	Rear Face	0	23130	25	0	w/	17.0	16.83	1.04	0.01	0.453	0.47
	LTE 12	QPSK10M	Right Side	0	23130	25	0	w/	17.0	16.83	1.04	0.1	0.323	0.34
	LTE 12	QPSK10M	Rear Face	0	23060	1	0	w/	17.0	16.33	1.17	0.05	0.412	0.48
	LTE 12	QPSK10M	Rear Face	0	23095	1	0	w/	17.0	16.21	1.20	0.06	0.398	0.48
35	LTE 13	QPSK10M	Top Side	13	23230	1	0	w/o	24.5	23.49	1.26	0	< 0.001	0.00
	LTE 13	QPSK10M	Rear Face	25	23230	1	0	w/o	24.5	23.49	1.26	0.01	0.11	0.14
	LTE 13	QPSK10M	Right Side	20	23230	1	0	w/o	24.5	23.49	1.26	0.1	0.064	0.08
	LTE 13	QPSK10M	Top Side	13	23230	25	25	w/o	23.5	22.48	1.26	0	< 0.001	0.00
	LTE 13	QPSK10M	Rear Face	25	23230	25	25	w/o	23.5	22.48	1.26	-0.03	0.096	0.12
	LTE 13	QPSK10M	Right Side	20	23230	25	25	w/o	23.5	22.48	1.26	-0.11	0.054	0.07
	LTE 13	QPSK10M	Top Side	0	23230	1	0	w/	16.0	15.21	1.20	0	< 0.001	0.00
	LTE 13	QPSK10M	Rear Face	0	23230	1	0	w/	16.0	15.21	1.20	-0.13	0.416	0.50
	LTE 13	QPSK10M	Right Side	0	23230	1	0	w/	16.0	15.21	1.20	-0.11	0.291	0.35
	LTE 13	QPSK10M	Top Side	0	23230	25	25	w/	16.0	15.20	1.20	0	< 0.001	0.00
	LTE 13	QPSK10M	Rear Face	0	23230	25	25	w/	16.0	15.20	1.20	0.08	0.400	0.48
	LTE 13	QPSK10M	Right Side	0	23230	25	25	w/	16.0	15.20	1.20	0.1	0.278	0.33

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FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 14	QPSK10M	Top Side	13	23330	1	0	w/o	24.5	23.68	1.21	0	< 0.001	0.00
	LTE 14	QPSK10M	Rear Face	25	23330	1	0	w/o	24.5	23.68	1.21	0.1	0.107	0.13
	LTE 14	QPSK10M	Right Side	20	23330	1	0	w/o	24.5	23.68	1.21	0.08	0.056	0.07
	LTE 14	QPSK10M	Top Side	13	23330	25	0	w/o	23.5	22.58	1.24	0	< 0.001	0.00
	LTE 14	QPSK10M	Rear Face	25	23330	25	0	w/o	23.5	22.58	1.24	-0.03	0.084	0.10
	LTE 14	QPSK10M	Right Side	20	23330	25	0	w/o	23.5	22.58	1.24	0.1	0.045	0.06
	LTE 14	QPSK10M	Top Side	0	23330	1	0	w/	17.0	16.23	1.19	0	< 0.001	0.00
36	LTE 14	QPSK10M	Rear Face	0	23330	1	0	w/	17.0	16.23	1.19	-0.14	0.512	0.61
	LTE 14	QPSK10M	Right Side	0	23330	1	0	w/	17.0	16.23	1.19	0.09	0.274	0.33
	LTE 14	QPSK10M	Top Side	0	23330	25	0	w/	17.0	16.14	1.22	0	< 0.001	0.00
	LTE 14	QPSK10M	Rear Face	0	23330	25	0	w/	17.0	16.14	1.22	-0.03	0.496	0.60
	LTE 14	QPSK10M	Right Side	0	23330	25	0	w/	17.0	16.14	1.22	0.1	0.251	0.31
	LTE 25	QPSK20M	Top Side	13	26590	1	0	w/o	24.0	23.36	1.16	0	< 0.001	0.00
	LTE 25	QPSK20M	Rear Face	25	26590	1	0	w/o	24.0	23.36	1.16	-0.06	0.173	0.20
	LTE 25	QPSK20M	Right Side	20	26590	1	0	w/o	24.0	23.36	1.16	0.03	0.206	0.24
	LTE 25	QPSK20M	Top Side	13	26590	50	0	w/o	23.0	22.25	1.19	0	< 0.001	0.00
	LTE 25	QPSK20M	Rear Face	25	26590	50	0	w/o	23.0	22.25	1.19	0.1	0.128	0.15
	LTE 25	QPSK20M	Right Side	20	26590	50	0	w/o	23.0	22.25	1.19	-0.06	0.164	0.19
	LTE 25	QPSK20M	Top Side	0	26590	1	0	w/	11.5	11.33	1.04	0	< 0.001	0.00
38	LTE 25	QPSK20M	Rear Face	0	26590	1	0	w/	11.5	11.33	1.04	-0.09	0.637	0.66
	LTE 25	QPSK20M	Right Side	0	26590	1	0	w/	11.5	11.33	1.04	-0.09	0.162	0.17
	LTE 25	QPSK20M	Top Side	0	26590	50	0	w/	11.5	11.04	1.11	0	< 0.001	0.00
	LTE 25	QPSK20M	Rear Face	0	26590	50	0	w/	11.5	11.04	1.11	0.17	0.598	0.66
	LTE 25	QPSK20M	Right Side	0	26590	50	0	w/	11.5	11.04	1.11	0.08	0.157	0.17
	LTE 25	QPSK20M	Rear Face	0	26140	1	0	w/	11.5	10.87	1.16	0.01	0.566	0.65
	LTE 25	QPSK20M	Rear Face	0	26365	1	0	w/	11.5	11.00	1.12	-0.18	0.577	0.65
	LTE 26	QPSK15M	Top Side	13	26865	1	0	w/o	24.5	23.66	1.21	0	< 0.001	0.00
	LTE 26	QPSK15M	Rear Face	25	26865	1	0	w/o	24.5	23.66	1.21	0.11	0.087	0.11
	LTE 26	QPSK15M	Right Side	20	26865	1	0	w/o	24.5	23.66	1.21	-0.09	0.049	0.06
	LTE 26	QPSK15M	Top Side	13	26865	36	0	w/o	23.5	22.48	1.26	0	< 0.001	0.00
	LTE 26	QPSK15M	Rear Face	25	26865	36	0	w/o	23.5	22.48	1.26	0.17	0.074	0.09
	LTE 26	QPSK15M	Right Side	20	26865	36	0	w/o	23.5	22.48	1.26	0.07	0.04	0.05
	LTE 26	QPSK15M	Top Side	0	26865	1	0	w/	18.5	18.44	1.01	0.18	0.05	0.05
39	LTE 26	QPSK15M	Rear Face	0	26865	1	0	w/	18.5	18.44	1.01	-0.16	0.651	0.66
	LTE 26	QPSK15M	Right Side	0	26865	1	0	w/	18.5	18.44	1.01	-0.03	0.386	0.39
	LTE 26	QPSK15M	Top Side	0	26865	36	0	w/	18.5	18.42	1.02	0.15	0.047	0.05
	LTE 26	QPSK15M	Rear Face	0	26865	36	0	w/	18.5	18.42	1.02	-0.13	0.647	0.66
	LTE 26	QPSK15M	Right Side	0	26865	36	0	w/	18.5	18.42	1.02	-0.06	0.235	0.24
	LTE 26	QPSK15M	Rear Face	0	26765	1	0	w/	18.5	18.37	1.03	0.01	0.648	0.65
	LTE 26	QPSK15M	Rear Face	0	26965	1	0	w/	18.5	18.42	1.02	-0.03	0.645	0.63

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 30	QPSK10M	Top Side	13	27710	1	0	w/o	23.0	22.62	1.09	0.05	0.048	0.05
	LTE 30	QPSK10M	Rear Face	25	27710	1	0	w/o	23.0	22.62	1.09	0.1	0.176	0.19
	LTE 30	QPSK10M	Right Side	20	27710	1	0	w/o	23.0	22.62	1.09	-0.06	0.078	0.08
	LTE 30	QPSK10M	Top Side	13	27710	25	0	w/o	22.0	21.62	1.09	0	< 0.001	0.00
	LTE 30	QPSK10M	Rear Face	25	27710	25	0	w/o	22.0	21.62	1.09	-0.06	0.142	0.15
	LTE 30	QPSK10M	Right Side	20	27710	25	0	w/o	22.0	21.62	1.09	0.03	0.063	0.07
	LTE 30	QPSK10M	Top Side	0	27710	1	0	w/	11.0	10.75	1.06	0	< 0.001	0.00
40	LTE 30	QPSK10M	Rear Face	0	27710	1	0	w/	11.0	10.75	1.06	-0.05	0.627	0.66
	LTE 30	QPSK10M	Right Side	0	27710	1	0	w/	11.0	10.75	1.06	0.08	0.093	0.10
	LTE 30	QPSK10M	Top Side	0	27710	25	0	w/	11.0	10.74	1.06	0	< 0.001	0.00
	LTE 30	QPSK10M	Rear Face	0	27710	25	0	w/	11.0	10.74	1.06	0.11	0.617	0.66
	LTE 30	QPSK10M	Right Side	0	27710	25	0	w/	11.0	10.74	1.06	-0.09	0.089	0.09
	LTE 38	QPSK20M	Top Side	13	38000	1	0	w/o	24.0	23.82	1.04	0.02	0.041	0.04
	LTE 38	QPSK20M	Rear Face	25	38000	1	0	w/o	24.0	23.82	1.04	-0.1	0.387	0.40
	LTE 38	QPSK20M	Right Side	20	38000	1	0	w/o	24.0	23.82	1.04	-0.04	0.357	0.37
	LTE 38	QPSK20M	Top Side	13	38000	50	0	w/o	24.0	22.88	1.29	0	< 0.001	0.00
	LTE 38	QPSK20M	Rear Face	25	38000	50	0	w/o	23.0	22.88	1.03	0.02	0.32	0.33
	LTE 38	QPSK20M	Right Side	20	38000	50	0	w/o	23.0	22.88	1.03	0.1	0.322	0.33
	LTE 38	QPSK20M	Top Side	0	38000	1	0	w/	11.0	10.53	1.11	0	< 0.001	0.00
41	LTE 38	QPSK20M	Rear Face	0	38000	1	0	w/	11.0	10.53	1.11	-0.15	0.588	0.66
	LTE 38	QPSK20M	Right Side	0	38000	1	0	w/	11.0	10.53	1.11	0.03	0.113	0.13
	LTE 38	QPSK20M	Top Side	0	38000	50	0	w/	11.0	10.48	1.13	0	< 0.001	0.00
	LTE 38	QPSK20M	Rear Face	0	38000	50	0	w/	11.0	10.48	1.13	-0.13	0.579	0.65
	LTE 38	QPSK20M	Right Side	0	38000	50	0	w/	11.0	10.48	1.13	0.03	0.104	0.12
	LTE 38	QPSK20M	Rear Face	0	37850	1	0	w/	11.0	10.41	1.15	-0.11	0.501	0.57
	LTE 38	QPSK20M	Rear Face	0	38150	1	0	w/	11.0	10.47	1.13	-0.01	0.577	0.65

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Uplink Mode	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
42	Single Carrier (CA inactive)	LTE 41	QPSK20M	Top Side	13	40620	1	0	w/o	24.0	23.82	1.04	0.05	0.043	0.04
		LTE 41	QPSK20M	Rear Face	25	40620	1	0	w/o	24.0	23.82	1.04	-0.02	0.365	0.38
		LTE 41	QPSK20M	Right Side	20	40620	1	0	w/o	24.0	23.82	1.04	-0.05	0.343	0.36
		LTE 41	QPSK20M	Top Side	13	40620	50	0	w/o	23.0	22.65	1.08	0	< 0.001	0.00
		LTE 41	QPSK20M	Rear Face	25	40620	50	0	w/o	23.0	22.65	1.08	-0.13	0.292	0.32
		LTE 41	QPSK20M	Right Side	20	40620	50	0	w/o	23.0	22.65	1.08	-0.02	0.31	0.34
		LTE 41	QPSK20M	Top Side	0	40620	1	0	w/	11.0	10.96	1.01	0	0.001	0.00
		LTE 41	QPSK20M	Rear Face	0	40620	1	0	w/	11.0	10.96	1.01	-0.18	0.722	0.73
		LTE 41	QPSK20M	Right Side	0	40620	1	0	w/	11.0	10.96	1.01	-0.1	0.112	0.11
		LTE 41	QPSK20M	Top Side	0	40620	50	0	w/	11.0	10.60	1.10	0	< 0.001	0.00
		LTE 41	QPSK20M	Rear Face	0	40620	50	0	w/	11.0	10.60	1.10	0.13	0.669	0.73
		LTE 41	QPSK20M	Right Side	0	40620	50	0	w/	11.0	10.60	1.10	0.11	0.096	0.11
		LTE 41	QPSK20M	Rear Face	0	39750	1	0	w/	11.0	10.54	1.11	0.05	0.576	0.64
		LTE 41	QPSK20M	Rear Face	0	40185	1	0	w/	11.0	10.38	1.15	0.04	0.572	0.66
		LTE 41	QPSK20M	Rear Face	0	41055	1	0	w/	11.0	10.65	1.08	-0.01	0.555	0.60
		LTE 41	QPSK20M	Rear Face	0	41490	1	0	w/	11.0	10.62	1.09	-0.09	0.571	0.62
	2CC (CA active)	LTE 41	QPSK20M	Rear Face	0	PCC:39750 SCC:39948	PCC:1 SCC:1	PCC:99 SCC:0	w/	11.0	10.52	1.12	-0.01	0.489	0.55
		LTE 41	QPSK20M	Rear Face	0	PCC:40185 SCC:40383	PCC:1 SCC:1	PCC:99 SCC:0	w/	11.0	10.40	1.15	-0.08	0.567	0.65
		LTE 41	QPSK20M	Rear Face	0	PCC:40620 SCC:40818	PCC:1 SCC:1	PCC:99 SCC:0	w/	11.0	10.63	1.09	-0.01	0.667	0.73
		LTE 41	QPSK20M	Rear Face	0	PCC:41055 SCC:41253	PCC:1 SCC:1	PCC:99 SCC:0	w/	11.0	10.60	1.10	-0.09	0.662	0.73
		LTE 41	QPSK20M	Rear Face	0	PCC:41292 SCC:41490	PCC:1 SCC:1	PCC:99 SCC:0	w/	11.0	10.54	1.11	-0.06	0.650	0.72

Note: The "0.001" means there is no SAR value or the SAR is too low to be measured.

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	RB#	RB Offset	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
44	LTE 66	QPSK20M	Top Side	13	132322	1	0	w/o	24.0	23.12	1.22	0.08	0.071	0.09
	LTE 66	QPSK20M	Rear Face	25	132322	1	0	w/o	24.0	23.12	1.22	-0.1	0.168	0.21
	LTE 66	QPSK20M	Right Side	20	132322	1	0	w/o	24.0	23.12	1.22	0.07	0.199	0.24
	LTE 66	QPSK20M	Top Side	13	132322	50	0	w/o	23.0	22.13	1.22	0.05	0.055	0.07
	LTE 66	QPSK20M	Rear Face	25	132322	50	0	w/o	23.0	22.13	1.22	0.05	0.122	0.15
	LTE 66	QPSK20M	Right Side	20	132322	50	0	w/o	23.0	22.13	1.22	-0.07	0.158	0.19
	LTE 66	QPSK20M	Top Side	0	132072	1	0	w/	10.5	10.28	1.05	0	< 0.001	0.00
	LTE 66	QPSK20M	Rear Face	0	132072	1	0	w/	10.5	10.28	1.05	-0.12	0.442	0.46
	LTE 66	QPSK20M	Right Side	0	132072	1	0	w/	10.5	10.28	1.05	0.08	0.146	0.15
	LTE 66	QPSK20M	Top Side	0	132072	50	0	w/	10.5	10.27	1.05	0	< 0.001	0.00
	LTE 66	QPSK20M	Rear Face	0	132072	50	0	w/	10.5	10.27	1.05	-0.11	0.420	0.44
	LTE 66	QPSK20M	Right Side	0	132072	50	0	w/	10.5	10.27	1.05	0.08	0.140	0.15
	LTE 66	QPSK20M	Rear Face	0	132322	1	0	w/	10.5	10.25	1.06	0.09	0.43	0.46
	LTE 66	QPSK20M	Rear Face	0	132572	1	0	w/	10.5	10.22	1.07	-0.11	0.409	0.44

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Tx Antenna	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Top Side	13	6	Ant 0	w/o	100.00	1.00	17.0	16.85	1.04	0.03	0.043	0.04
	WLAN2.4G	802.11b	Rear Face	25	6	Ant 0	w/o	100.00	1.00	17.0	16.85	1.04	0	< 0.001	0.00
	WLAN2.4G	802.11b	Right Side	20	6	Ant 0	w/o	100.00	1.00	17.0	16.85	1.04	0	< 0.001	0.00
	WLAN2.4G	802.11b	Top Side	13	6	Ant 1	w/o	100.00	1.00	17.0	16.65	1.08	-0.04	0.044	0.05
	WLAN2.4G	802.11b	Rear Face	25	6	Ant 1	w/o	100.00	1.00	17.0	16.65	1.08	0.1	0.026	0.03
	WLAN2.4G	802.11b	Left Side	0	6	Ant 1	w/o	100.00	1.00	17.0	16.65	1.08	-0.12	0.028	0.03
	WLAN2.4G	802.11b	Top Side	13	1	Ant 0+1	w/o	100.00	1.00	17.0	16.87	1.03	0.13	0.029	0.03
	WLAN2.4G	802.11b	Rear Face	25	1	Ant 0+1	w/o	100.00	1.00	17.0	16.87	1.03	0	< 0.001	0.00
	WLAN2.4G	802.11b	Right Side	20	1	Ant 0+1	w/o	100.00	1.00	17.0	16.87	1.03	0	< 0.001	0.00
	WLAN2.4G	802.11b	Left Side	0	1	Ant 0+1	w/o	100.00	1.00	17.0	16.87	1.03	0	< 0.001	0.00
	WLAN2.4G	802.11b	Top Side	0	6	Ant 0	w/	100.00	1.00	10.0	9.86	1.03	0.03	0.198	0.20
45	WLAN2.4G	802.11b	Rear Face	0	6	Ant 0	w/	100.00	1.00	10.0	9.86	1.03	-0.05	0.735	0.76
	WLAN2.4G	802.11b	Right Side	0	6	Ant 0	w/	100.00	1.00	10.0	9.86	1.03	-0.07	0.016	0.02
	WLAN2.4G	802.11b	Top Side	0	6	Ant 1	w/	100.00	1.00	10.0	9.76	1.06	-0.02	0.104	0.11
	WLAN2.4G	802.11b	Rear Face	0	6	Ant 1	w/	100.00	1.00	10.0	9.76	1.06	-0.08	0.643	0.68
	WLAN2.4G	802.11b	Top Side	0	6	Ant 0+1	w/	100.00	1.00	12.5	12.34	1.04	0.01	0.151	0.16
	WLAN2.4G	802.11b	Rear Face	0	6	Ant 0+1	w/	100.00	1.00	12.5	12.34	1.04	0.08	0.660	0.68
	WLAN2.4G	802.11b	Right Side	0	6	Ant 0+1	w/	100.00	1.00	12.5	12.34	1.04	0.13	0.012	0.01
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 0	w/	100.00	1.00	10.0	9.75	1.06	-0.06	0.711	0.75
	WLAN2.4G	802.11b	Rear Face	0	11	Ant 0	w/	100.00	1.00	10.0	9.70	1.07	-0.11	0.685	0.73
	WLAN5G	802.11ac VHT80	Top Side	13	58	Ant 0	w/o	92.40	1.08	18.0	17.95	1.01	0.09	0.391	0.43
	WLAN5G	802.11ac VHT80	Rear Face	25	58	Ant 0	w/o	92.40	1.08	18.0	17.95	1.01	-0.1	0.472	0.52
	WLAN5G	802.11ac VHT80	Right Side	20	58	Ant 0	w/o	92.40	1.08	18.0	17.95	1.01	0.00	< 0.001	0.00
	WLAN5G	802.11ac VHT80	Top Side	13	58	Ant 1	w/o	92.40	1.08	18.0	17.70	1.07	0.06	0.249	0.29
	WLAN5G	802.11ac VHT80	Rear Face	25	58	Ant 1	w/o	92.40	1.08	18.0	17.70	1.07	-0.02	0.213	0.25
	WLAN5G	802.11ac VHT80	Left Side	0	58	Ant 1	w/o	92.40	1.08	18.0	17.70	1.07	0.06	0.164	0.19
	WLAN5G	802.11a	Top Side	13	48	Ant 0+1	w/o	92.40	1.08	21.0	20.67	1.08	-0.06	0.121	0.14
	WLAN5G	802.11a	Rear Face	25	48	Ant 0+1	w/o	92.40	1.08	21.0	20.67	1.08	-0.05	0.220	0.26
	WLAN5G	802.11a	Left Side	0	48	Ant 0+1	w/o	92.40	1.08	21.0	20.67	1.08	0.03	0.092	0.11
	WLAN5G	802.11a	Right Side	20	48	Ant 0+1	w/o	92.40	1.08	21.0	20.67	1.08	0	< 0.001	0.00
	WLAN5G	802.11ac VHT80	Top Side	0	58	Ant 0	w/	92.40	1.08	9.0	8.96	1.01	0.02	0.349	0.38
46	WLAN5G	802.11ac VHT80	Rear Face	0	58	Ant 0	w/	92.40	1.08	9.0	8.96	1.01	-0.05	0.689	0.75
	WLAN5G	802.11ac VHT80	Right Side	0	58	Ant 0	w/	92.40	1.08	9.0	8.96	1.01	0.03	0.034	0.04
	WLAN5G	802.11ac VHT80	Top Side	0	58	Ant 1	w/	92.40	1.08	9.5	9.31	1.04	-0.06	0.385	0.44
	WLAN5G	802.11ac VHT80	Rear Face	0	58	Ant 1	w/	92.40	1.08	9.5	9.31	1.04	-0.13	0.663	0.75
	WLAN5G	802.11ac VHT80	Top Side	0	58	Ant 0+1	w/	92.40	1.08	12.5	12.10	1.10	-0.01	0.391	0.46
	WLAN5G	802.11ac VHT80	Rear Face	0	58	Ant 0+1	w/	92.40	1.08	12.5	12.10	1.10	0.03	0.528	0.63
	WLAN5G	802.11ac VHT80	Right Side	0	58	Ant 0+1	w/	92.40	1.08	12.5	12.10	1.10	-0.07	0.013	0.02

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Tx Antenna	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5G	802.11ac VHT80	Top Side	13	106	Ant 0	w/o	92.40	1.08	18.0	17.82	1.04	-0.03	0.374	0.42
	WLAN5G	802.11ac VHT80	Rear Face	25	106	Ant 0	w/o	92.40	1.08	18.0	17.82	1.04	-0.12	0.537	0.61
	WLAN5G	802.11ac VHT80	Right Side	20	106	Ant 0	w/o	92.40	1.08	18.0	17.82	1.04	0	< 0.001	0.00
	WLAN5G	802.11ac VHT80	Top Side	13	106	Ant 1	w/o	92.40	1.08	18.0	17.77	1.05	0.02	0.168	0.19
	WLAN5G	802.11ac VHT80	Rear Face	25	106	Ant 1	w/o	92.40	1.08	18.0	17.77	1.05	0.06	0.098	0.11
	WLAN5G	802.11ac VHT80	Left Side	0	106	Ant 1	w/o	92.40	1.08	18.0	17.77	1.05	0.05	0.173	0.20
	WLAN5G	802.11ac VHT80	Top Side	13	122	Ant 0+1	w/o	92.40	1.08	18.0	17.66	1.08	0.1	0.233	0.27
	WLAN5G	802.11ac VHT80	Rear Face	25	122	Ant 0+1	w/o	92.40	1.08	18.0	17.66	1.08	0.14	0.179	0.21
	WLAN5G	802.11ac VHT80	Left Side	0	122	Ant 0+1	w/o	92.40	1.08	18.0	17.66	1.08	0.05	0.185	0.22
	WLAN5G	802.11ac VHT80	Right Side	25	122	Ant 0+1	w/o	92.40	1.08	18.0	17.66	1.08	0	< 0.001	0.00
	WLAN5G	802.11ac VHT80	Rear Face	0	106	Ant 0	w/	92.40	1.08	9.0	8.86	1.03	-0.06	0.643	0.72
	WLAN5G	802.11ac VHT80	Top Side	0	106	Ant 0	w/	92.40	1.08	9.0	8.86	1.03	0.02	0.357	0.40
	WLAN5G	802.11ac VHT80	Right Side	0	106	Ant 0	w/	92.40	1.08	9.0	8.86	1.03	0.07	0.032	0.04
	WLAN5G	802.11ac VHT80	Rear Face	0	106	Ant 1	w/	92.40	1.08	9.0	8.31	1.17	-0.05	0.616	0.78
	WLAN5G	802.11ac VHT80	Top Side	0	106	Ant 1	w/	92.40	1.08	9.0	8.31	1.17	-0.03	0.489	0.62
47	WLAN5G	802.11ac VHT80	Rear Face	0	106	Ant 0+1	w/	92.40	1.08	12.0	11.63	1.09	0.1	0.662	0.78
	WLAN5G	802.11ac VHT80	Top Side	0	106	Ant 0+1	w/	92.40	1.08	12.0	11.63	1.09	0.09	0.512	0.60
	WLAN5G	802.11ac VHT80	Right Side	0	106	Ant 0+1	w/	92.40	1.08	12.0	11.63	1.09	0.04	0.011	0.01
	WLAN5G	802.11ac VHT80	Rear Face	0	122	Ant 0+1	w/	92.40	1.08	12.0	11.60	1.10	0.08	0.647	0.77

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	Tx Antenna	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5G	802.11ac VHT80	Top Side	13	155	Ant 0	w/o	92.40	1.08	18.0	17.65	1.08	-0.12	0.538	0.63
	WLAN5G	802.11ac VHT80	Rear Face	25	155	Ant 0	w/o	92.40	1.08	18.0	17.65	1.08	-0.04	0.587	0.69
	WLAN5G	802.11ac VHT80	Right Side	20	155	Ant 0	w/o	92.40	1.08	18.0	17.65	1.08	0.01	0.00128	0.00
	WLAN5G	802.11ac VHT80	Top Side	13	155	Ant 1	w/o	92.40	1.08	18.0	17.57	1.10	0.07	0.651	0.78
	WLAN5G	802.11ac VHT80	Rear Face	25	155	Ant 1	w/o	92.40	1.08	18.0	17.57	1.10	-0.13	0.302	0.36
	WLAN5G	802.11ac VHT80	Left Side	0	155	Ant 1	w/o	92.40	1.08	18.0	17.57	1.10	0.02	0.393	0.47
	WLAN5G	802.11ac VHT80	Top Side	13	155	Ant 0+1	w/o	92.40	1.08	18.0	17.61	1.09	0.15	0.286	0.34
	WLAN5G	802.11ac VHT80	Rear Face	25	155	Ant 0+1	w/o	92.40	1.08	18.0	17.61	1.09	-0.03	0.219	0.26
	WLAN5G	802.11ac VHT80	Left Side	0	155	Ant 0+1	w/o	92.40	1.08	18.0	17.61	1.09	0.05	0.186	0.22
	WLAN5G	802.11ac VHT80	Right Side	20	155	Ant 0+1	w/o	92.40	1.08	18.0	17.61	1.09	0.00	< 0.001	0.00
	WLAN5G	802.11ac VHT80	Rear Face	0	155	Ant 0	w/	92.40	1.08	8.5	7.76	1.19	0.02	0.594	0.76
	WLAN5G	802.11ac VHT80	Top Side	0	155	Ant 0	w/	92.40	1.08	8.5	7.76	1.19	0.05	0.272	0.35
	WLAN5G	802.11ac VHT80	Right Side	0	155	Ant 0	w/	92.40	1.08	18.0	17.65	1.08	0.04	0.064	0.08
	WLAN5G	802.11ac VHT80	Rear Face	0	155	Ant 1	w/	92.40	1.08	9.0	8.95	1.01	-0.11	0.657	0.72
	WLAN5G	802.11ac VHT80	Top Side	0	155	Ant 1	w/	92.40	1.08	9.0	8.95	1.01	-0.01	0.726	0.79
48	WLAN5G	802.11ac VHT80	Rear Face	0	155	Ant 0+1	w/	92.40	1.08	11.5	11.13	1.09	0.03	0.700	0.82
	WLAN5G	802.11ac VHT80	Top Side	0	155	Ant 0+1	w/	92.40	1.08	11.5	11.13	1.09	0.02	0.481	0.57
	WLAN5G	802.11ac VHT80	Right Side	0	155	Ant 0+1	w/	92.40	1.08	18.0	17.61	1.09	-0.11	0.048	0.06
	BT	DH5	Top Side	0	78	Ant 0		76.70	1.30	6.0	5.94	1.01	0.01	0.003	0.00
	BT	DH5	Rear Face	0	78	Ant 0	-	76.70	1.30	6.0	5.94	1.01	-0.03	0.012	0.02
	BT	DH5	Right Side	0	78	Ant 0	-	76.70	1.30	6.0	5.94	1.01	0	< 0.001	0.00
	BT	DH5	Rear Face	0	0	Ant 0	-	76.70	1.30	6.0	5.29	1.18	-0.08	0.013	0.02
49	BT	DH5	Rear Face	0	39	Ant 0	-	76.70	1.30	6.0	4.17	1.52	-0.03	0.035	0.07

Note: The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

FCC SAR Test Report

4.7.3 SAR Measurement Variability

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

Since all the measured SAR are less than 0.8 W/kg, the repeated measurement is not required.

4.7.4 Simultaneous Multi-band Transmission Evaluation

<Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
1	WWAN + WLAN	Yes
2	WWAN + BT	Yes
3	WLAN + BT	Yes
4	WWAN + WLAN + BT	Yes

Note :

1. The WLAN 2.4G and WLAN 5G cannot transmit simultaneously.

FCC SAR Test Report

<Estimated SAR Calculation>

According to KDB 447498 D01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of ≤ 0.4 W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \frac{\sqrt{f_{(GHz)}}}{7.5}$$

If the minimum test separation distance is < 5 mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is > 50 mm, the 0.4 W/kg is used for SAR-1g.

Tablet PC Mode

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
WCDMA II	1.907	24.5	Body	5	0.40
WCDMA IV	1.752	24.0	Body	5	0.40
WCDMA V	0.846	24.5	Body	5	0.40
LTE 2	1.91	24.5	Body	5	0.40
LTE 4	1.755	24.0	Body	5	0.40
LTE 5	0.849	24.5	Body	5	0.40
LTE 7	2.57	24.0	Body	5	0.40
LTE 12	0.716	24.5	Body	5	0.40
LTE 13	0.787	24.5	Body	5	0.40
LTE 14	0.798	24.5	Body	5	0.40
LTE 17	0.716	24.5	Body	5	0.40
LTE 25	1.915	24.0	Body	5	0.40
LTE 26	0.849	24.5	Body	5	0.40
LTE 30	2.315	23.0	Body	5	0.40
LTE 38	2.62	24.0	Body	5	0.40
LTE 41	2.69	24.0	Body	5	0.40
LTE 66	1.78	24.0	Body	5	0.40
WLAN (DTS)	2.462	18.0	Body	5	0.40
WLAN (NII)	5.3	21.0	Body	5	0.40
WLAN (NII)	5.6	18.5	Body	5	0.40
WLAN (NII)	5.8	18.0	Body	5	0.40
BT (DSS)	2.48	6.0	Body	5	0.17

Note:

1. The separation distance is determined from the outer housing of the EUT to the user.
2. When standalone SAR testing is not required, an estimated SAR can be applied to determine simultaneous transmission SAR test exclusion.

FCC SAR Test Report

<SAR Summation Analysis>

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

Laptop PC Mode

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
1	WCDMA II + WLAN (DTS)	Body	Bottom Side	0.24	0.64	-	0.88	Σ SAR < 1.6, Not required
2	WCDMA II + WLAN (NII)	Body	Bottom Side	0.24	0.77	-	1.01	Σ SAR < 1.6, Not required
3	WCDMA II + BT (DSS)	Body	Bottom Side	0.24	0.00	-	0.24	Σ SAR < 1.6, Not required
4	WCDMA II + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.24	0.63	0.00	0.87	Σ SAR < 1.6, Not required
5	WCDMA II + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.24	0.63	0.00	0.87	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
6	WCDMA IV + WLAN (DTS)	Body	Bottom Side	0.23	0.64	-	0.87	Σ SAR < 1.6, Not required
7	WCDMA IV + WLAN (NII)	Body	Bottom Side	0.23	0.77	-	1.00	Σ SAR < 1.6, Not required
8	WCDMA IV + BT (DSS)	Body	Bottom Side	0.23	0.00	-	0.23	Σ SAR < 1.6, Not required
9	WCDMA IV + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.23	0.63	0.00	0.86	Σ SAR < 1.6, Not required
10	WCDMA IV + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.23	0.63	0.00	0.86	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
11	WCDMA V + WLAN (DTS)	Body	Bottom Side	0.67	0.64	-	1.31	Σ SAR < 1.6, Not required
12	WCDMA V + WLAN (NII)	Body	Bottom Side	0.67	0.77	-	1.44	Σ SAR < 1.6, Not required
13	WCDMA V + BT (DSS)	Body	Bottom Side	0.67	0.00	-	0.67	Σ SAR < 1.6, Not required
14	WCDMA V + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.67	0.63	0.00	1.30	Σ SAR < 1.6, Not required
15	WCDMA V + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.67	0.63	0.00	1.30	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
21	LTE 4 + WLAN (DTS)	Body	Bottom Side	0.53	0.64	-	1.17	Σ SAR < 1.6, Not required
22	LTE 4 + WLAN (NII)	Body	Bottom Side	0.53	0.77	-	1.30	Σ SAR < 1.6, Not required
23	LTE 4 + BT (DSS)	Body	Bottom Side	0.53	0.00	-	0.53	Σ SAR < 1.6, Not required
24	LTE 4 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.53	0.63	0.00	1.16	Σ SAR < 1.6, Not required
25	LTE 4 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.53	0.63	0.00	1.16	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
26	LTE 5 + WLAN (DTS)	Body	Bottom Side	0.63	0.64	-	1.27	Σ SAR < 1.6, Not required
27	LTE 5 + WLAN (NII)	Body	Bottom Side	0.63	0.77	-	1.40	Σ SAR < 1.6, Not required
28	LTE 5 + BT (DSS)	Body	Bottom Side	0.63	0.00	-	0.63	Σ SAR < 1.6, Not required
29	LTE 5 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.63	0.63	0.00	1.26	Σ SAR < 1.6, Not required
30	LTE 5 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.63	0.63	0.00	1.26	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
31	LTE 7 + WLAN (DTS)	Body	Bottom Side	0.27	0.64	-	0.91	Σ SAR < 1.6, Not required
32	LTE 7 + WLAN (NII)	Body	Bottom Side	0.27	0.77	-	1.04	Σ SAR < 1.6, Not required
33	LTE 7 + BT (DSS)	Body	Bottom Side	0.27	0.00	-	0.27	Σ SAR < 1.6, Not required
34	LTE 7 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.27	0.63	0.00	0.90	Σ SAR < 1.6, Not required
35	LTE 7 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.27	0.63	0.00	0.90	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
36	LTE 12 + WLAN (DTS)	Body	Bottom Side	0.60	0.64	-	1.24	Σ SAR < 1.6, Not required
37	LTE 12 + WLAN (NII)	Body	Bottom Side	0.60	0.77	-	1.37	Σ SAR < 1.6, Not required
38	LTE 12 + BT (DSS)	Body	Bottom Side	0.60	0.00	-	0.60	Σ SAR < 1.6, Not required
39	LTE 12 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.60	0.63	0.00	1.23	Σ SAR < 1.6, Not required
40	LTE 12 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.60	0.63	0.00	1.23	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
41	LTE 13 + WLAN (DTS)	Body	Bottom Side	0.70	0.64	-	1.34	Σ SAR < 1.6, Not required
42	LTE 13 + WLAN (NII)	Body	Bottom Side	0.70	0.77	-	1.47	Σ SAR < 1.6, Not required
43	LTE 13 + BT (DSS)	Body	Bottom Side	0.70	0.00	-	0.70	Σ SAR < 1.6, Not required
44	LTE 13 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.70	0.63	0.00	1.33	Σ SAR < 1.6, Not required
45	LTE 13 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.70	0.63	0.00	1.33	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
46	LTE 14 + WLAN (DTS)	Body	Bottom Side	0.74	0.64	-	1.38	Σ SAR < 1.6, Not required
47	LTE 14 + WLAN (NII)	Body	Bottom Side	0.74	0.77	-	1.51	Σ SAR < 1.6, Not required
48	LTE 14 + BT (DSS)	Body	Bottom Side	0.74	0.00	-	0.74	Σ SAR < 1.6, Not required
49	LTE 14 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.74	0.63	0.00	1.37	Σ SAR < 1.6, Not required
50	LTE 14 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.74	0.63	0.00	1.37	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
51	LTE 17 + WLAN (DTS)	Body	Bottom Side	0.55	0.64	-	1.19	Σ SAR < 1.6, Not required
52	LTE 17 + WLAN (NII)	Body	Bottom Side	0.55	0.77	-	1.32	Σ SAR < 1.6, Not required
53	LTE 17 + BT (DSS)	Body	Bottom Side	0.55	0.00	-	0.55	Σ SAR < 1.6, Not required
54	LTE 17 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.55	0.63	0.00	1.18	Σ SAR < 1.6, Not required
55	LTE 17 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.55	0.63	0.00	1.18	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
56	LTE 25 + WLAN (DTS)	Body	Bottom Side	0.55	0.64	-	1.19	Σ SAR < 1.6, Not required
57	LTE 25 + WLAN (NII)	Body	Bottom Side	0.55	0.77	-	1.32	Σ SAR < 1.6, Not required
58	LTE 25 + BT (DSS)	Body	Bottom Side	0.55	0.00	-	0.55	Σ SAR < 1.6, Not required
59	LTE 25 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.55	0.63	0.00	1.18	Σ SAR < 1.6, Not required
60	LTE 25 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.55	0.63	0.00	1.18	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
61	LTE 26 + WLAN (DTS)	Body	Bottom Side	0.72	0.64	-	1.36	Σ SAR < 1.6, Not required
62	LTE 26 + WLAN (NII)	Body	Bottom Side	0.72	0.77	-	1.49	Σ SAR < 1.6, Not required
63	LTE 26 + BT (DSS)	Body	Bottom Side	0.72	0.00	-	0.72	Σ SAR < 1.6, Not required
64	LTE 26 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.72	0.63	0.00	1.35	Σ SAR < 1.6, Not required
65	LTE 26 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.72	0.63	0.00	1.35	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
66	LTE 30 + WLAN (DTS)	Body	Bottom Side	0.46	0.64	-	1.10	Σ SAR < 1.6, Not required
67	LTE 30 + WLAN (NII)	Body	Bottom Side	0.46	0.77	-	1.23	Σ SAR < 1.6, Not required
68	LTE 30 + BT (DSS)	Body	Bottom Side	0.46	0.00	-	0.46	Σ SAR < 1.6, Not required
69	LTE 30 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.46	0.63	0.00	1.09	Σ SAR < 1.6, Not required
70	LTE 30 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.46	0.63	0.00	1.09	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
71	LTE 38 + WLAN (DTS)	Body	Bottom Side	0.27	0.64	-	0.91	Σ SAR < 1.6, Not required
72	LTE 38 + WLAN (NII)	Body	Bottom Side	0.27	0.77	-	1.04	Σ SAR < 1.6, Not required
73	LTE 38 + BT (DSS)	Body	Bottom Side	0.27	0.00	-	0.27	Σ SAR < 1.6, Not required
74	LTE 38 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.27	0.63	0.00	0.90	Σ SAR < 1.6, Not required
75	LTE 38 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.27	0.63	0.00	0.90	Σ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
76	LTE 41 + WLAN (DTS)	Body	Bottom Side	0.37	0.64	-	1.01	Σ SAR < 1.6, Not required
77	LTE 41 + WLAN (NII)	Body	Bottom Side	0.37	0.77	-	1.14	Σ SAR < 1.6, Not required
78	LTE 41 + BT (DSS)	Body	Bottom Side	0.37	0.00	-	0.37	Σ SAR < 1.6, Not required
79	LTE 41 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.37	0.63	0.00	1.00	Σ SAR < 1.6, Not required
80	LTE 41 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.37	0.63	0.00	1.00	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
81	LTE 66 + WLAN (DTS)	Body	Bottom Side	0.71	0.64	-	1.35	Σ SAR < 1.6, Not required
82	LTE 66 + WLAN (NII)	Body	Bottom Side	0.71	0.77	-	1.48	Σ SAR < 1.6, Not required
83	LTE 66 + BT (DSS)	Body	Bottom Side	0.71	0.00	-	0.71	Σ SAR < 1.6, Not required
84	LTE 66 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Bottom Side	0.71	0.63	0.00	1.34	Σ SAR < 1.6, Not required
85	LTE 66 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Bottom Side	0.71	0.63	0.00	1.34	Σ SAR < 1.6, Not required

FCC SAR Test Report

Tablet PC Mode

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
1	WCDMA II + WLAN (DTS)	Body	Rear Face	0.66	0.76	-	1.42	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.27	0.02	-	0.29	Σ SAR < 1.6, Not required
			Top Side	0.14	0.20	-	0.34	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
2	WCDMA II + WLAN (NII)	Body	Rear Face	0.66	0.82	-	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.27	0.08	-	0.35	Σ SAR < 1.6, Not required
			Top Side	0.14	0.79	-	0.93	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
3	WCDMA II + BT (DSS)	Body	Rear Face	0.66	0.07	-	0.73	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.27	0.00	-	0.27	Σ SAR < 1.6, Not required
			Top Side	0.14	0.00	-	0.14	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
4	WCDMA II + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.68	0.07	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.27	0.40	0.00	0.67	Σ SAR < 1.6, Not required
			Top Side	0.14	0.11	0.00	0.25	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
5	WCDMA II + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.78	0.07	1.51	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.27	0.40	0.00	0.67	Σ SAR < 1.6, Not required
			Top Side	0.14	0.79	0.00	0.93	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
6	WCDMA IV + WLAN (DTS)	Body	Rear Face	0.66	0.76	-	1.42	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.38	0.02	-	0.40	Σ SAR < 1.6, Not required
			Top Side	0.07	0.20	-	0.27	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
7	WCDMA IV + WLAN (NII)	Body	Rear Face	0.66	0.82	-	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.38	0.08	-	0.46	Σ SAR < 1.6, Not required
			Top Side	0.07	0.79	-	0.86	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
8	WCDMA IV + BT (DSS)	Body	Rear Face	0.66	0.07	-	0.73	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.38	0.00	-	0.38	Σ SAR < 1.6, Not required
			Top Side	0.07	0.00	-	0.07	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
9	WCDMA IV + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.68	0.07	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.38	0.40	0.00	0.78	Σ SAR < 1.6, Not required
			Top Side	0.07	0.11	0.00	0.18	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
10	WCDMA IV + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.78	0.07	1.51	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.38	0.40	0.00	0.78	Σ SAR < 1.6, Not required
			Top Side	0.07	0.79	0.00	0.86	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
11	WCDMA V + WLAN (DTS)	Body	Rear Face	0.63	0.76	-	1.39	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.50	0.02	-	0.52	Σ SAR < 1.6, Not required
			Top Side	0.07	0.20	-	0.27	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
12	WCDMA V + WLAN (NII)	Body	Rear Face	0.63	0.82	-	1.45	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.50	0.08	-	0.58	Σ SAR < 1.6, Not required
			Top Side	0.07	0.79	-	0.86	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
13	WCDMA V + BT (DSS)	Body	Rear Face	0.63	0.07	-	0.70	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.50	0.00	-	0.50	Σ SAR < 1.6, Not required
			Top Side	0.07	0.00	-	0.07	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
14	WCDMA V + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.63	0.68	0.07	1.38	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.50	0.40	0.00	0.90	Σ SAR < 1.6, Not required
			Top Side	0.07	0.11	0.00	0.18	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
15	WCDMA V + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.63	0.78	0.07	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.50	0.40	0.00	0.90	Σ SAR < 1.6, Not required
			Top Side	0.07	0.79	0.00	0.86	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
16	LTE 2 + WLAN (DTS)	Body	Rear Face	0.56	0.76	-	1.32	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.22	0.02	-	0.24	Σ SAR < 1.6, Not required
			Top Side	0.08	0.20	-	0.28	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
17	LTE 2 + WLAN (NII)	Body	Rear Face	0.56	0.82	-	1.38	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.22	0.08	-	0.30	Σ SAR < 1.6, Not required
			Top Side	0.08	0.79	-	0.87	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
18	LTE 2 + BT (DSS)	Body	Rear Face	0.56	0.07	-	0.63	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.22	0.00	-	0.22	Σ SAR < 1.6, Not required
			Top Side	0.08	0.00	-	0.08	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
19	LTE 2 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.56	0.68	0.07	1.31	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.22	0.40	0.00	0.62	Σ SAR < 1.6, Not required
			Top Side	0.08	0.11	0.00	0.19	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
20	LTE 2 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.56	0.78	0.07	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.22	0.40	0.00	0.62	Σ SAR < 1.6, Not required
			Top Side	0.08	0.79	0.00	0.87	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
21	LTE 4 + WLAN (DTS)	Body	Rear Face	0.52	0.76	-	1.28	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.29	0.02	-	0.31	Σ SAR < 1.6, Not required
			Top Side	0.07	0.20	-	0.27	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
22	LTE 4 + WLAN (NII)	Body	Rear Face	0.52	0.82	-	1.34	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.29	0.08	-	0.37	Σ SAR < 1.6, Not required
			Top Side	0.07	0.79	-	0.86	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
23	LTE 4 + BT (DSS)	Body	Rear Face	0.52	0.07	-	0.59	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.29	0.00	-	0.29	Σ SAR < 1.6, Not required
			Top Side	0.07	0.00	-	0.07	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
24	LTE 4 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.52	0.68	0.07	1.26	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.29	0.40	0.00	0.69	Σ SAR < 1.6, Not required
			Top Side	0.07	0.11	0.00	0.18	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
25	LTE 4 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.52	0.78	0.07	1.37	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.29	0.40	0.00	0.69	Σ SAR < 1.6, Not required
			Top Side	0.07	0.79	0.00	0.86	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
26	LTE 5 + WLAN (DTS)	Body	Rear Face	0.68	0.76	-	1.44	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.45	0.02	-	0.47	Σ SAR < 1.6, Not required
			Top Side	0.06	0.20	-	0.26	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
27	LTE 5 + WLAN (NII)	Body	Rear Face	0.68	0.82	-	1.50	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.45	0.08	-	0.53	Σ SAR < 1.6, Not required
			Top Side	0.06	0.79	-	0.85	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
28	LTE 5 + BT (DSS)	Body	Rear Face	0.68	0.07	-	0.75	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.45	0.00	-	0.45	Σ SAR < 1.6, Not required
			Top Side	0.06	0.00	-	0.06	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
29	LTE 5 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.68	0.68	0.07	1.43	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.45	0.40	0.00	0.85	Σ SAR < 1.6, Not required
			Top Side	0.06	0.11	0.00	0.17	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
30	LTE 5 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.68	0.78	0.07	1.53	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.45	0.40	0.00	0.85	Σ SAR < 1.6, Not required
			Top Side	0.06	0.79	0.00	0.85	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
31	LTE 7 + WLAN (DTS)	Body	Rear Face	0.73	0.76	-	1.49	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.90	0.02	-	0.92	Σ SAR < 1.6, Not required
			Top Side	0.09	0.20	-	0.29	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
32	LTE 7 + WLAN (NII)	Body	Rear Face	0.73	0.82	-	1.55	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.90	0.08	-	0.98	Σ SAR < 1.6, Not required
			Top Side	0.09	0.79	-	0.88	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
33	LTE 7 + BT (DSS)	Body	Rear Face	0.73	0.07	-	0.80	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.90	0.00	-	0.90	Σ SAR < 1.6, Not required
			Top Side	0.09	0.00	-	0.09	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
34	LTE 7 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.73	0.68	0.07	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.90	0.40	0.00	1.30	Σ SAR < 1.6, Not required
			Top Side	0.09	0.11	0.00	0.20	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
35	LTE 7 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.73	0.78	0.07	1.58	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.90	0.40	0.00	1.30	Σ SAR < 1.6, Not required
			Top Side	0.09	0.79	0.00	0.88	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
36	LTE 12 + WLAN (DTS)	Body	Rear Face	0.48	0.76	-	1.24	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.34	0.02	-	0.36	Σ SAR < 1.6, Not required
			Top Side	0.00	0.20	-	0.20	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
37	LTE 12 + WLAN (NII)	Body	Rear Face	0.48	0.82	-	1.30	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.34	0.08	-	0.42	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	-	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
38	LTE 12 + BT (DSS)	Body	Rear Face	0.48	0.07	-	0.55	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.34	0.00	-	0.34	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	-	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
39	LTE 12 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.48	0.68	0.07	1.23	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.34	0.40	0.00	0.74	Σ SAR < 1.6, Not required
			Top Side	0.00	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
40	LTE 12 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.48	0.78	0.07	1.33	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.34	0.40	0.00	0.74	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	0.00	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
41	LTE 13 + WLAN (DTS)	Body	Rear Face	0.50	0.76	-	1.26	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.35	0.02	-	0.37	Σ SAR < 1.6, Not required
			Top Side	0.00	0.20	-	0.20	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
42	LTE 13 + WLAN (NII)	Body	Rear Face	0.50	0.82	-	1.32	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.35	0.08	-	0.43	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	-	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
43	LTE 13 + BT (DSS)	Body	Rear Face	0.50	0.07	-	0.57	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.35	0.00	-	0.35	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	-	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
44	LTE 13 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.50	0.68	0.07	1.25	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.00	0.75	Σ SAR < 1.6, Not required
			Top Side	0.00	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
45	LTE 13 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.50	0.78	0.07	1.35	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.35	0.40	0.00	0.75	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	0.00	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
46	LTE 14 + WLAN (DTS)	Body	Rear Face	0.61	0.76	-	1.37	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.33	0.02	-	0.35	Σ SAR < 1.6, Not required
			Top Side	0.00	0.20	-	0.20	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
47	LTE 14 + WLAN (NII)	Body	Rear Face	0.61	0.82	-	1.43	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.33	0.08	-	0.41	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	-	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
48	LTE 14 + BT (DSS)	Body	Rear Face	0.61	0.07	-	0.68	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.33	0.00	-	0.33	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	-	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
49	LTE 14 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.61	0.68	0.07	1.36	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.33	0.40	0.00	0.73	Σ SAR < 1.6, Not required
			Top Side	0.00	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
50	LTE 14 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.61	0.78	0.07	1.46	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.33	0.40	0.00	0.73	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	0.00	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
56	LTE 25 + WLAN (DTS)	Body	Rear Face	0.66	0.76	-	1.42	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.24	0.02	-	0.26	Σ SAR < 1.6, Not required
			Top Side	0.00	0.20	-	0.20	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
57	LTE 25 + WLAN (NII)	Body	Rear Face	0.66	0.82	-	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.24	0.08	-	0.32	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	-	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
58	LTE 25 + BT (DSS)	Body	Rear Face	0.66	0.07	-	0.73	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.24	0.00	-	0.24	Σ SAR < 1.6, Not required
			Top Side	0.00	0.00	-	0.00	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
59	LTE 25 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.68	0.07	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.24	0.40	0.00	0.64	Σ SAR < 1.6, Not required
			Top Side	0.00	0.11	0.00	0.11	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
60	LTE 25 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.78	0.07	1.51	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.24	0.40	0.00	0.64	Σ SAR < 1.6, Not required
			Top Side	0.00	0.79	0.00	0.79	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
61	LTE 26 + WLAN (DTS)	Body	Rear Face	0.66	0.76	-	1.42	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.39	0.02	-	0.41	Σ SAR < 1.6, Not required
			Top Side	0.05	0.20	-	0.25	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
62	LTE 26 + WLAN (NII)	Body	Rear Face	0.66	0.82	-	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.39	0.08	-	0.47	Σ SAR < 1.6, Not required
			Top Side	0.05	0.79	-	0.84	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
63	LTE 26 + BT (DSS)	Body	Rear Face	0.66	0.07	-	0.73	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.39	0.00	-	0.39	Σ SAR < 1.6, Not required
			Top Side	0.05	0.00	-	0.05	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
64	LTE 26 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.68	0.07	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.39	0.40	0.00	0.79	Σ SAR < 1.6, Not required
			Top Side	0.05	0.11	0.00	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
65	LTE 26 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.78	0.07	1.51	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.39	0.40	0.00	0.79	Σ SAR < 1.6, Not required
			Top Side	0.05	0.79	0.00	0.84	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
66	LTE 30 + WLAN (DTS)	Body	Rear Face	0.66	0.76	-	1.42	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.10	0.02	-	0.12	Σ SAR < 1.6, Not required
			Top Side	0.05	0.20	-	0.25	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
67	LTE 30 + WLAN (NII)	Body	Rear Face	0.66	0.82	-	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.10	0.08	-	0.18	Σ SAR < 1.6, Not required
			Top Side	0.05	0.79	-	0.84	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
68	LTE 30 + BT (DSS)	Body	Rear Face	0.66	0.07	-	0.73	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.10	0.00	-	0.10	Σ SAR < 1.6, Not required
			Top Side	0.05	0.00	-	0.05	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
69	LTE 30 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.68	0.07	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.10	0.40	0.00	0.50	Σ SAR < 1.6, Not required
			Top Side	0.05	0.11	0.00	0.16	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
70	LTE 30 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.78	0.07	1.51	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.10	0.40	0.00	0.50	Σ SAR < 1.6, Not required
			Top Side	0.05	0.79	0.00	0.84	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
71	LTE 38 + WLAN (DTS)	Body	Rear Face	0.66	0.76	-	1.42	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.37	0.02	-	0.39	Σ SAR < 1.6, Not required
			Top Side	0.04	0.20	-	0.24	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
72	LTE 38 + WLAN (NII)	Body	Rear Face	0.66	0.82	-	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.37	0.08	-	0.45	Σ SAR < 1.6, Not required
			Top Side	0.04	0.79	-	0.83	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
73	LTE 38 + BT (DSS)	Body	Rear Face	0.66	0.07	-	0.73	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.37	0.00	-	0.37	Σ SAR < 1.6, Not required
			Top Side	0.04	0.00	-	0.04	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
74	LTE 38 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.68	0.07	1.41	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.37	0.40	0.00	0.77	Σ SAR < 1.6, Not required
			Top Side	0.04	0.11	0.00	0.15	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
75	LTE 38 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.66	0.78	0.07	1.51	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.37	0.40	0.00	0.77	Σ SAR < 1.6, Not required
			Top Side	0.04	0.79	0.00	0.83	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
76	LTE 41 + WLAN (DTS)	Body	Rear Face	0.73	0.76	-	1.49	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.36	0.02	-	0.38	Σ SAR < 1.6, Not required
			Top Side	0.04	0.20	-	0.24	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
77	LTE 41 + WLAN (NII)	Body	Rear Face	0.73	0.82	-	1.55	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.36	0.08	-	0.44	Σ SAR < 1.6, Not required
			Top Side	0.04	0.79	-	0.83	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
78	LTE 41 + BT (DSS)	Body	Rear Face	0.73	0.07	-	0.80	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.36	0.00	-	0.36	Σ SAR < 1.6, Not required
			Top Side	0.04	0.00	-	0.04	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
79	LTE 41 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.73	0.68	0.07	1.48	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.36	0.40	0.00	0.76	Σ SAR < 1.6, Not required
			Top Side	0.04	0.11	0.00	0.15	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
80	LTE 41 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.73	0.78	0.07	1.58	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.36	0.40	0.00	0.76	Σ SAR < 1.6, Not required
			Top Side	0.04	0.79	0.00	0.83	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	Max. SAR3	SAR Summation	SPLSR Analysis
81	LTE 66 + WLAN (DTS)	Body	Rear Face	0.46	0.76	-	1.22	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	-	0.43	Σ SAR < 1.6, Not required
			Right Side	0.27	0.02	-	0.29	Σ SAR < 1.6, Not required
			Top Side	0.10	0.20	-	0.30	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
82	LTE 66 + WLAN (NII)	Body	Rear Face	0.46	0.82	-	1.28	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	-	0.87	Σ SAR < 1.6, Not required
			Right Side	0.27	0.08	-	0.35	Σ SAR < 1.6, Not required
			Top Side	0.10	0.79	-	0.89	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	-	0.80	Σ SAR < 1.6, Not required
83	LTE 66 + BT (DSS)	Body	Rear Face	0.46	0.07	-	0.53	Σ SAR < 1.6, Not required
			Left Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
			Right Side	0.27	0.00	-	0.27	Σ SAR < 1.6, Not required
			Top Side	0.10	0.00	-	0.10	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.17	-	0.57	Σ SAR < 1.6, Not required
84	LTE 66 + WLAN Ant-1 (DTS) + BT Ant-0 (DSS)	Body	Rear Face	0.46	0.68	0.07	1.21	Σ SAR < 1.6, Not required
			Left Side	0.40	0.03	0.17	0.60	Σ SAR < 1.6, Not required
			Right Side	0.27	0.40	0.00	0.67	Σ SAR < 1.6, Not required
			Top Side	0.10	0.11	0.00	0.21	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required
85	LTE 66 + WLAN Ant-1 (NII) + BT Ant-0 (DSS)	Body	Rear Face	0.46	0.78	0.07	1.31	Σ SAR < 1.6, Not required
			Left Side	0.40	0.47	0.17	1.04	Σ SAR < 1.6, Not required
			Right Side	0.27	0.40	0.00	0.67	Σ SAR < 1.6, Not required
			Top Side	0.10	0.79	0.00	0.89	Σ SAR < 1.6, Not required
			Bottom Side	0.40	0.40	0.17	0.97	Σ SAR < 1.6, Not required

Test Engineer : Willy Chang, and Chienlun Huang

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Aug. 21, 2017	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 21, 2017	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 21, 2017	1 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 18, 2018	1 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 17, 2017	1 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 17, 2017	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Mar. 22, 2018	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3898	Jun. 26, 2018	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Mar. 26, 2018	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7346	Feb. 28, 2018	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 16, 2018	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jan. 18, 2018	1 Year
Data Acquisition Electronics	SPEAG	DAE4	679	Mar. 05, 2018	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50266628	Dec. 06, 2017	1 Year
Radio Communication Analyzer	Anritsu	MT8820C	6201300638	Jun. 27, 2018	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6261786083	Dec. 21, 2017	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Mar. 23, 2018	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	Jun. 08, 2018	1 Year
MXG Analog Signal Generator	Agilent	N5181A	MY50143868	Jul. 03, 2018	1 Year
Vector Signal Generator	Anritsu	MG3710A	6201599977	Mar. 16, 2018	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jul. 03, 2018	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jul. 03, 2018	1 Year
Thermometer	YFE	YF-160A	130504591	Mar. 23, 2018	1 Year

6. Measurement Uncertainty

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	Rectangular	√3	√0.5	√0.5	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	√0.5	√0.5	3.9	3.9	∞
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	2.9	Rectangular	√3	1	1	1.7	1.7	∞
Post-processing	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Test Sample Related								
Test Sample Positioning	3.9 / 2.06	Normal	1	1	1	3.9	2.1	35
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	6.1	Rectangular	√3	1	1	3.5	3.5	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 11.4 %	± 11.2 %	
Expanded Uncertainty (K=2)						± 22.8 %	± 22.4 %	

Head SAR Uncertainty Budget for Frequency Range of 300 MHz to 3 GHz

FCC SAR Test Report

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	3.9	3.9	∞
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	6.7	Rectangular	√3	1	1	3.9	3.9	∞
Post-processing	4.0	Rectangular	√3	1	1	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	3.9 / 2.06	Normal	1	1	1	3.9	2.1	35
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	6.6	Rectangular	√3	1	1	3.8	3.8	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 12.5 %	± 12.3 %	
Expanded Uncertainty (K=2)						± 25.0 %	± 24.6 %	

Head SAR Uncertainty Budget for Frequency Range of 3 GHz to 6 GHz

FCC SAR Test Report

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	Rectangular	√3	√0.5	√0.5	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	√0.5	√0.5	3.9	3.9	∞
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	2.9	Rectangular	√3	1	1	1.7	1.7	∞
Post-processing	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Test Sample Related								
Test Sample Positioning	4.38 / 1.35	Normal	1	1	1	4.4	1.4	29
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.2	Rectangular	√3	1	1	4.2	4.2	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 11.8 %	± 11.3 %	
Expanded Uncertainty (K=2)						± 23.6 %	± 22.6 %	

Body SAR Uncertainty Budget for Frequency Range of 300 MHz to 3 GHz

FCC SAR Test Report

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	3.9	3.9	∞
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	∞
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Probe Modulation Response	3.5	Rectangular	√3	1	1	2.0	2.0	∞
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Probe Positioning with Respect to Phantom	6.7	Rectangular	√3	1	1	3.9	3.9	∞
Post-processing	4.0	Rectangular	√3	1	1	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	4.38 / 1.35	Normal	1	1	1	4.4	1.4	29
Device Holder Uncertainty	2.9 / 4.1	Normal	1	1	1	2.9	4.1	11
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
Power Scaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.6	Rectangular	√3	1	1	4.4	4.4	∞
Liquid Conductivity (Temperature Uncertainty)	3.24	Rectangular	√3	0.78	0.71	1.5	1.3	∞
Liquid Conductivity (Measured)	2.88	Normal	1	0.78	0.71	2.2	2.0	43
Liquid Permittivity (Temperature Uncertainty)	1.13	Rectangular	√3	0.23	0.26	0.2	0.2	∞
Liquid Permittivity (Measured)	2.50	Normal	1	0.23	0.26	0.6	0.7	54
Combined Standard Uncertainty						± 12.8 %	± 12.4 %	
Expanded Uncertainty (K=2)						± 25.6 %	± 24.8 %	

Body SAR Uncertainty Budget for Frequency Range of 3 GHz to 6 GHz

7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

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

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Appendix A. SAR Plots of System Verification

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

System Check_B750_180809

DUT: Dipole 750 MHz; Type: D750V3; SN: 1013

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

Medium: B06T09N1_0809 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.957 \text{ S/m}$; $\epsilon_r = 55.472$; $\rho = 1000 \text{ kg/m}^3$

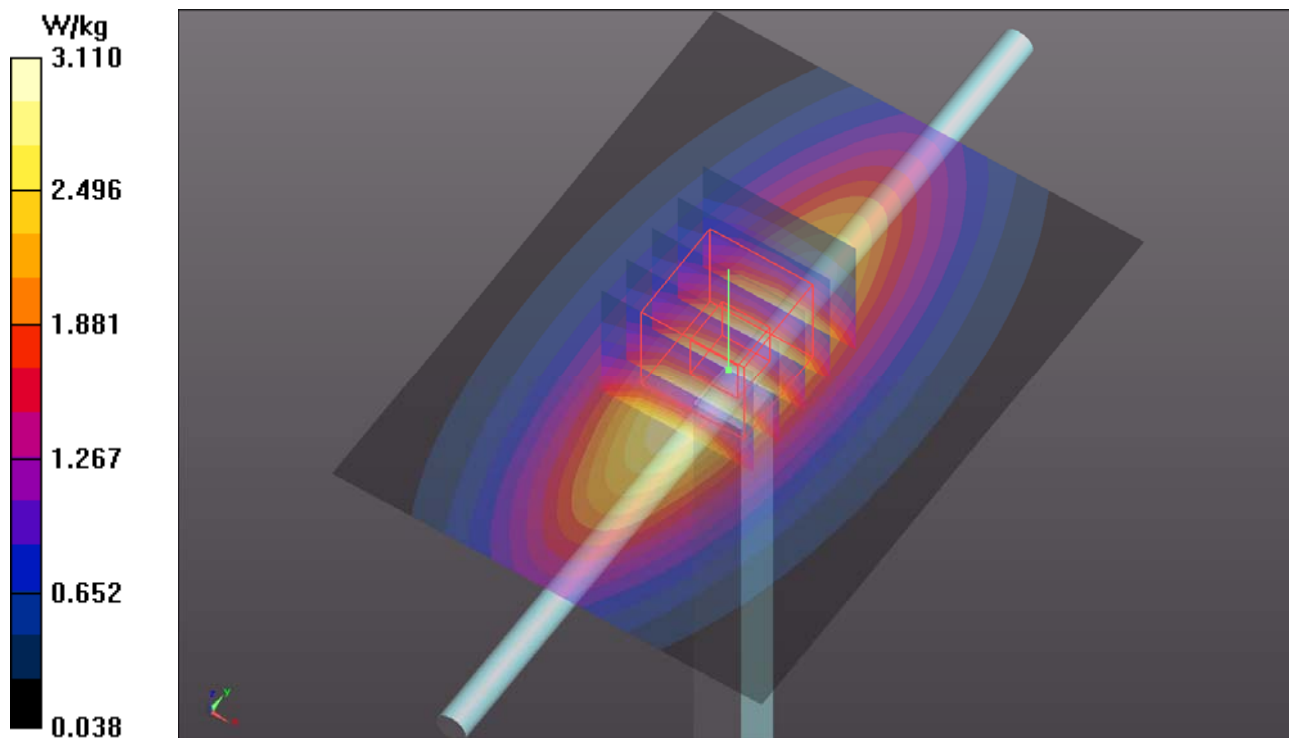
Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 3.11 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 58.68 V/m ; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.70 W/kg
SAR(1 g) = 2.3 W/kg ; SAR(10 g) = 1.49 W/kg
Maximum value of SAR (measured) = 3.12 W/kg



System Check_B835_180806

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121

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

Medium: B07T10N1_0806 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.968 \text{ S/m}$; $\epsilon_r = 57.125$; $\rho = 1000 \text{ kg/m}^3$

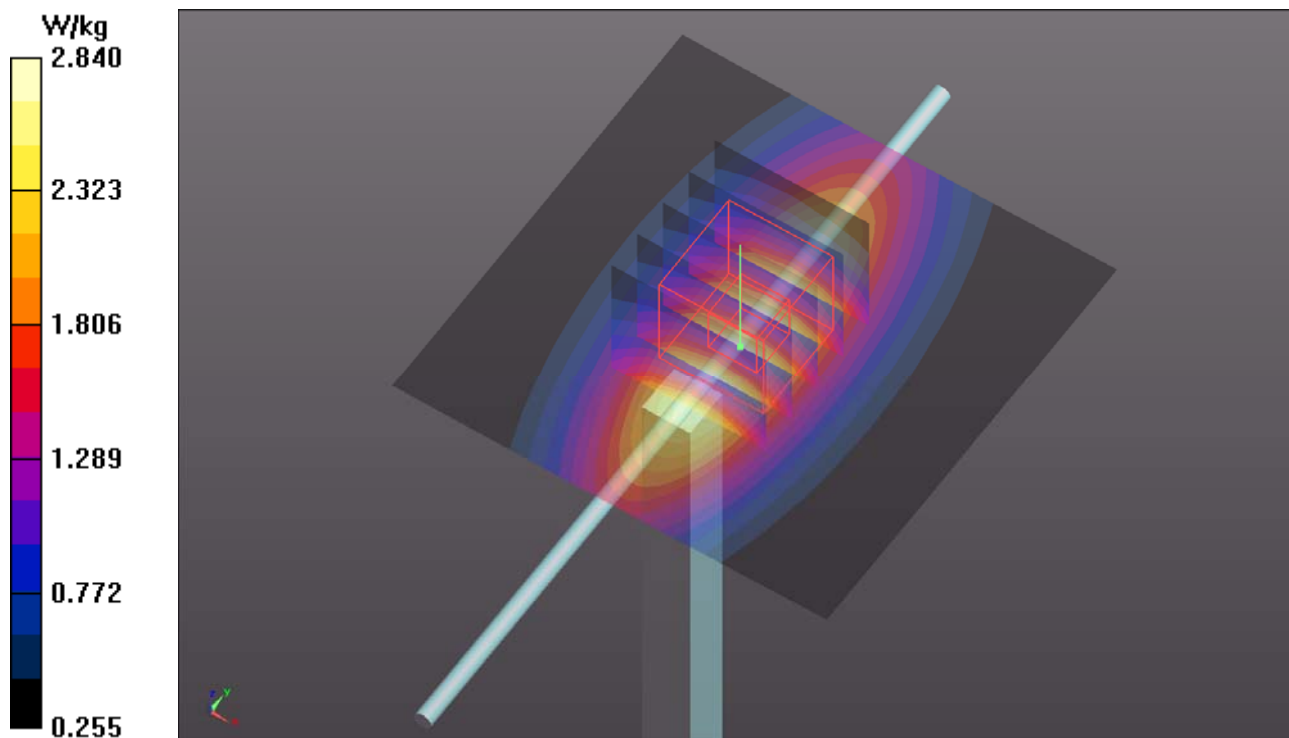
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.87 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 56.83 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.19 W/kg
SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.45 W/kg
Maximum value of SAR (measured) = 2.84 W/kg



System Check_B1750_180806

DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055

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

Medium: B16T20N2_0806 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.442$ S/m; $\epsilon_r = 51.949$; $\rho = 1000$ kg/m³

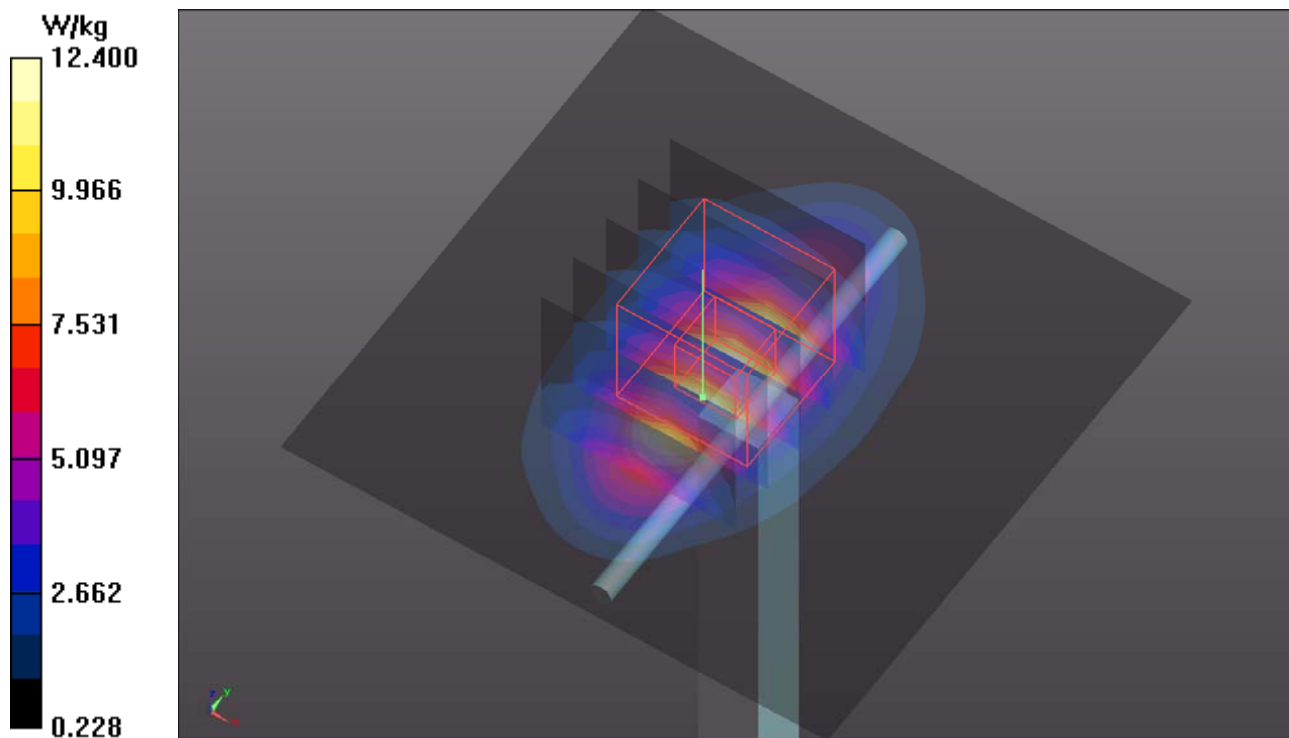
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.45, 8.45, 8.45); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 12.9 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 94.57 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 15.5 W/kg
SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.85 W/kg
Maximum value of SAR (measured) = 12.4 W/kg



System Check_B1900_180803

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036

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

Medium: B16T20N1_0803 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.569$ S/m; $\epsilon_r = 51.455$; $\rho = 1000$ kg/m³

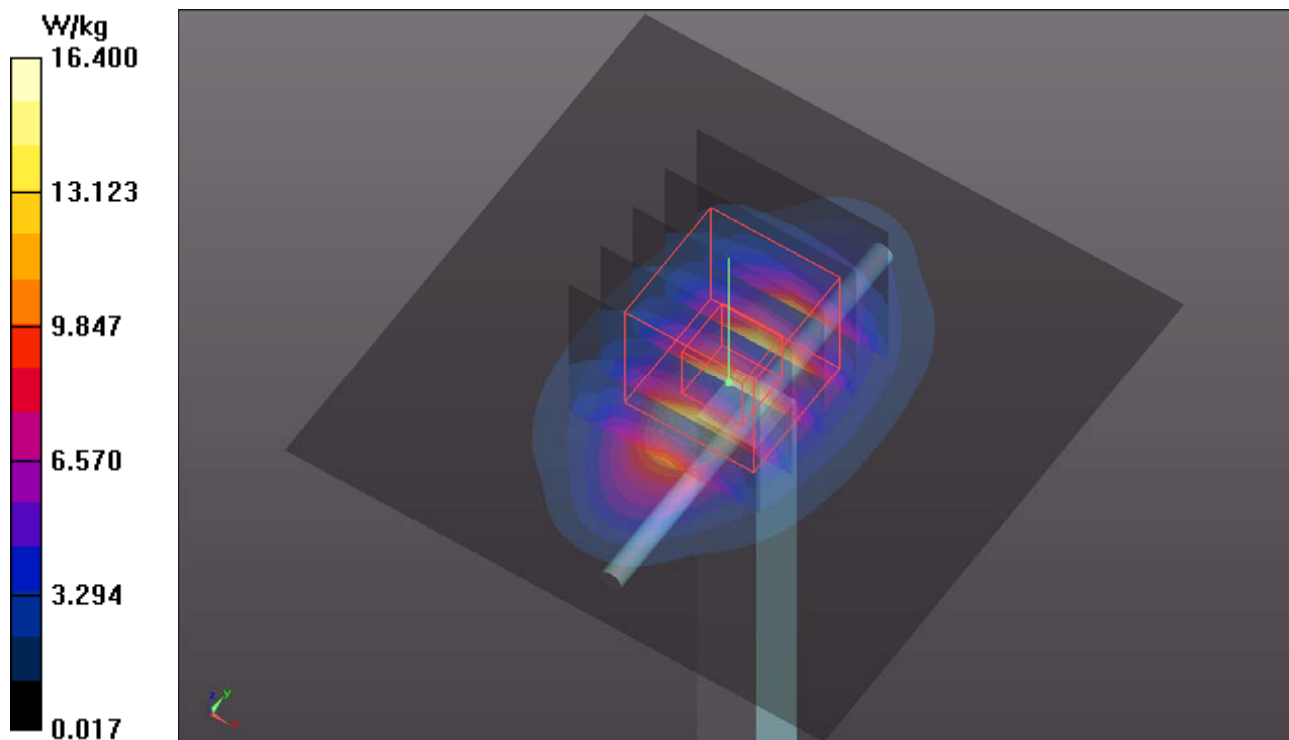
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.04, 8.04, 8.04); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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=8mm, dy=8mm, dz=5mm
Reference Value = 99.12 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 19.7 W/kg
SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.28 W/kg
Maximum value of SAR (measured) = 16.5 W/kg



System Check_B2300_180803

DUT: Dipole 2300 MHz; Type: D2300V2; SN:1004

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: B19T27N1_0803 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.861$ S/m; $\epsilon_r = 51.032$; $\rho = 1000$ kg/m³

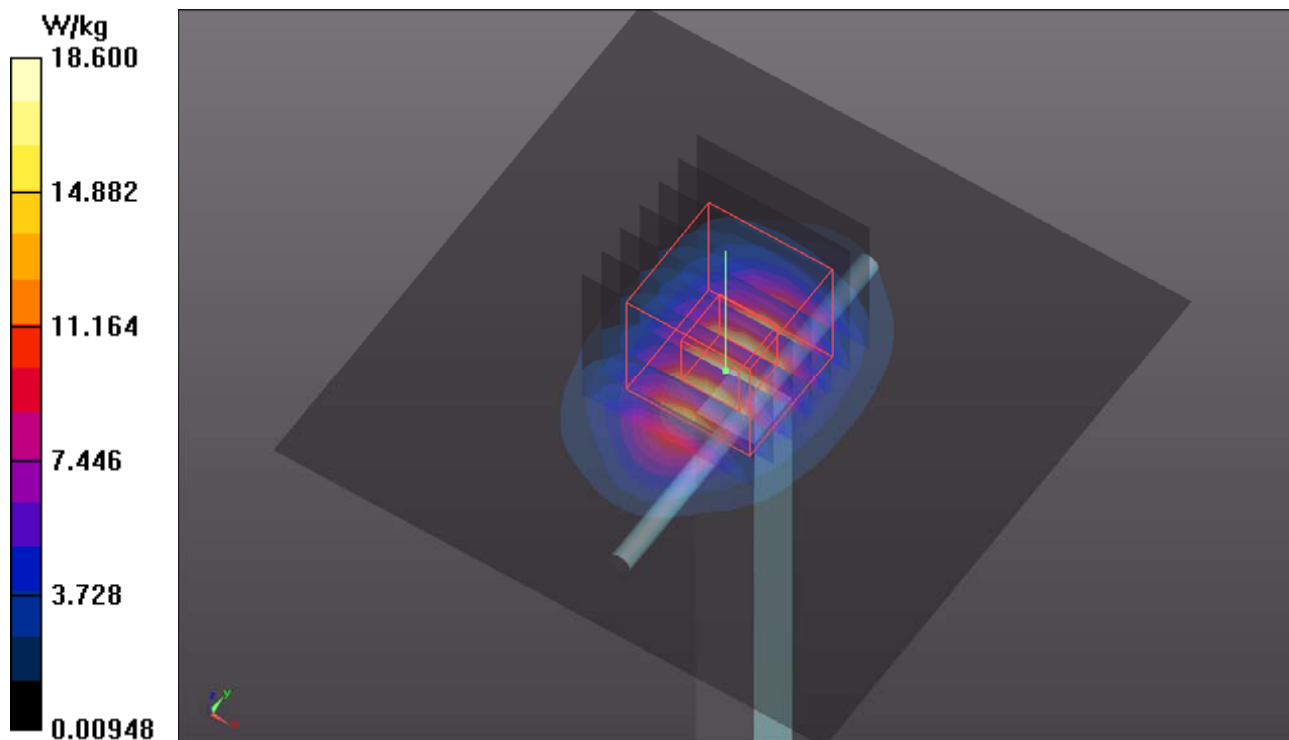
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.89, 7.89, 7.89); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 18.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 103.6 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 22.8 W/kg
SAR(1 g) = 11.3 W/kg; SAR(10 g) = 5.33 W/kg
Maximum value of SAR (measured) = 18.7 W/kg



System Check_B2450_180814

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

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

Medium: B19T27N1_0814 Medium parameters used: $f = 2450$ MHz; $\sigma = 2.024$ S/m; $\epsilon_r = 50.609$; $\rho = 1000$ kg/m³

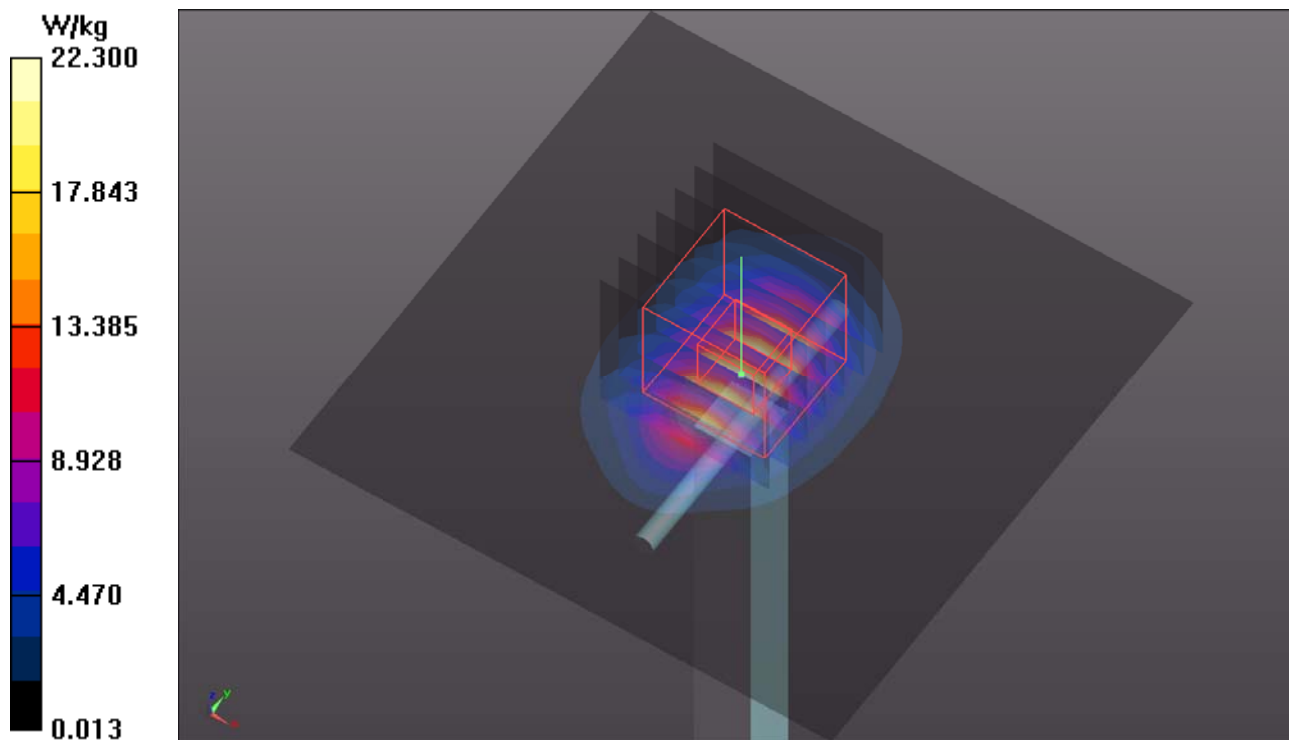
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.7, 7.7, 7.7); Calibrated: 2018/03/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 22.3 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 109.0 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 27.5 W/kg
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6 W/kg
Maximum value of SAR (measured) = 22.2 W/kg



System Check_B2600_180802

DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020

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

Medium: B19T27N1_0802 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.206$ S/m; $\epsilon_r = 51.522$; $\rho = 1000$ kg/m³

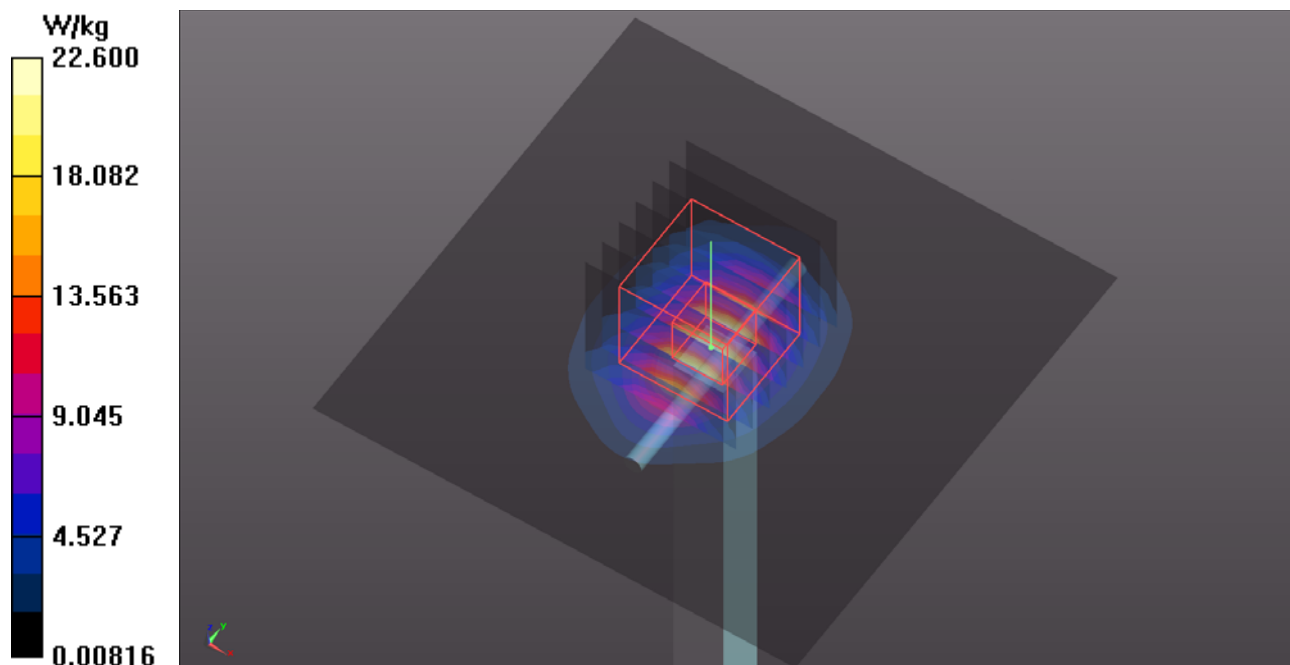
Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.44, 7.44, 7.44); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 103.6 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 31.0 W/kg
SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.45 W/kg
Maximum value of SAR (measured) = 22.7 W/kg



System Check_B5250_180808

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

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

Medium: B34T60N3_0808 Medium parameters used: $f = 5250$ MHz; $\sigma = 5.351$ S/m; $\epsilon_r = 49.105$; $\rho = 1000$ kg/m³

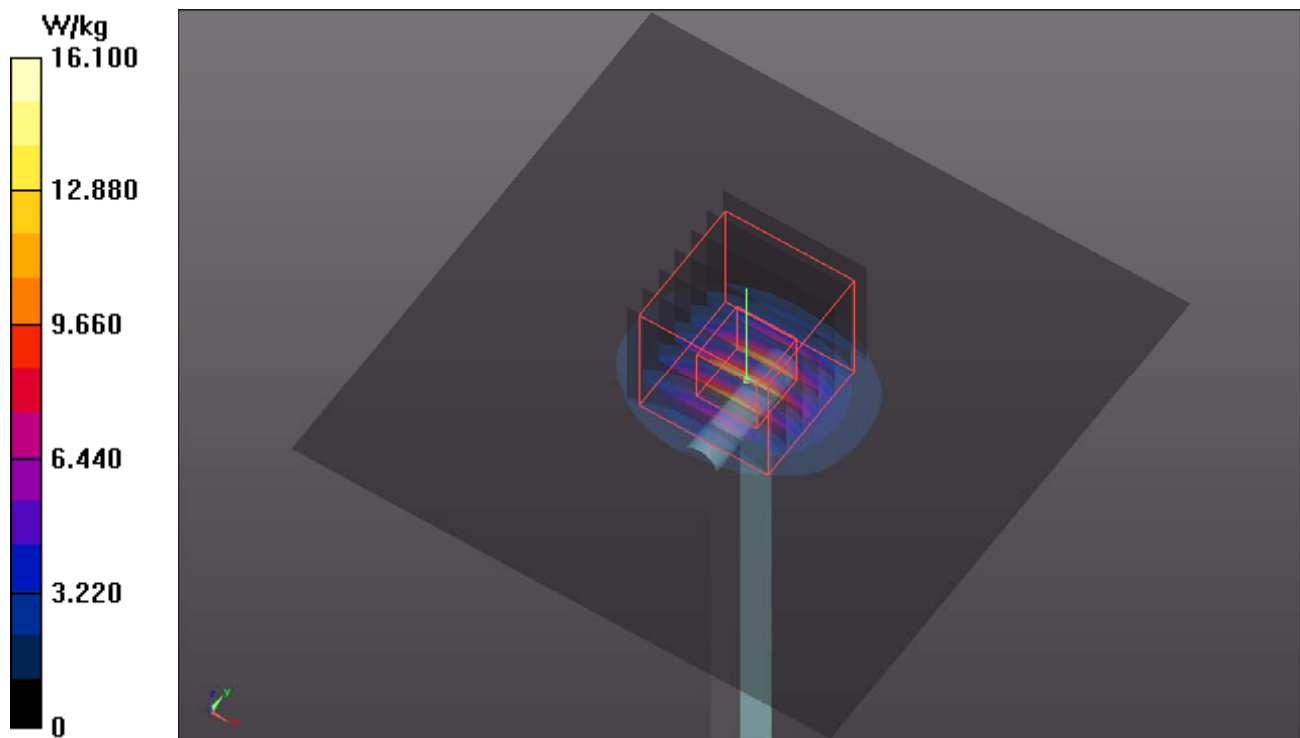
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.06, 5.06, 5.06); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.7 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 60.37 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 30.9 W/kg
SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 16.1 W/kg



System Check_B5600_180808

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

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

Medium: B34T60N3_0808 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.828$ S/m; $\epsilon_r = 48.581$; $\rho = 1000$ kg/m³

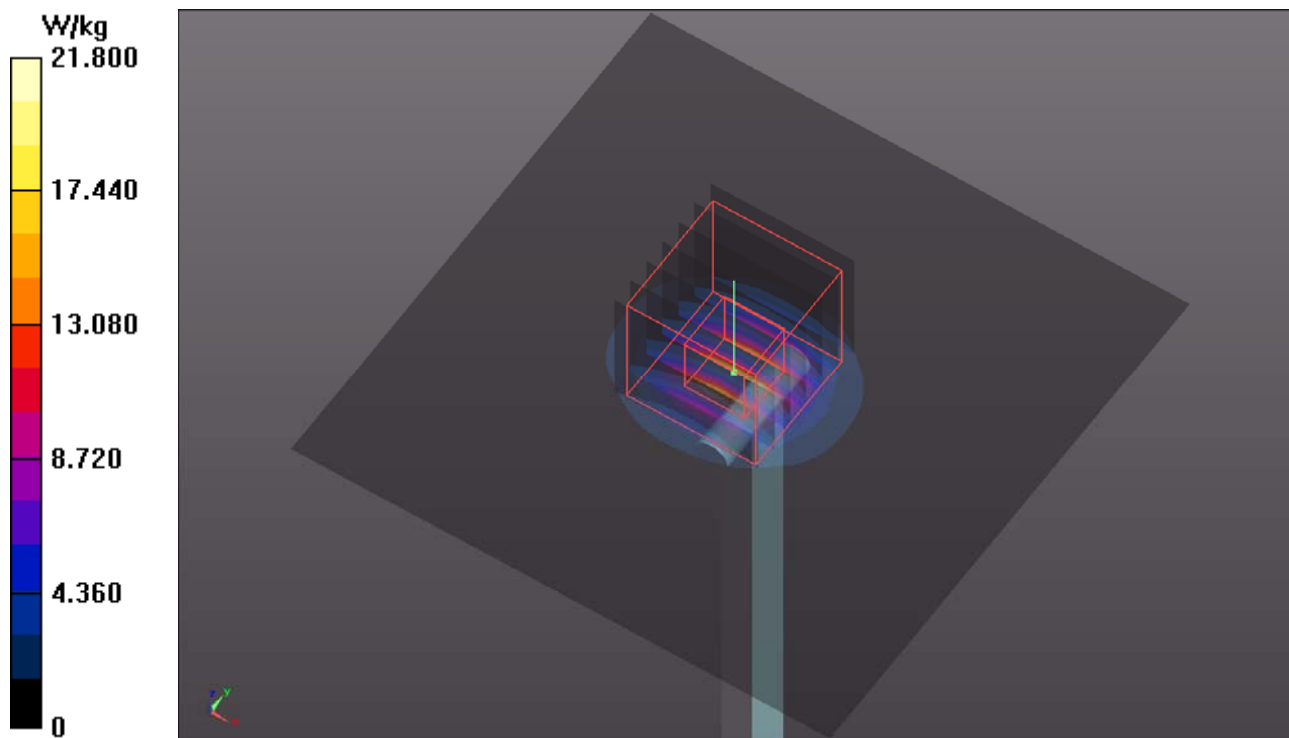
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.35, 4.35, 4.35); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.8 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 69.75 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 38.2 W/kg
SAR(1 g) = 8.3 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 21.8 W/kg



System Check_B5800_180811

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

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

Medium: B34T60N1_0811 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.171$ S/m; $\epsilon_r = 46.415$; $\rho = 1000$ kg/m³

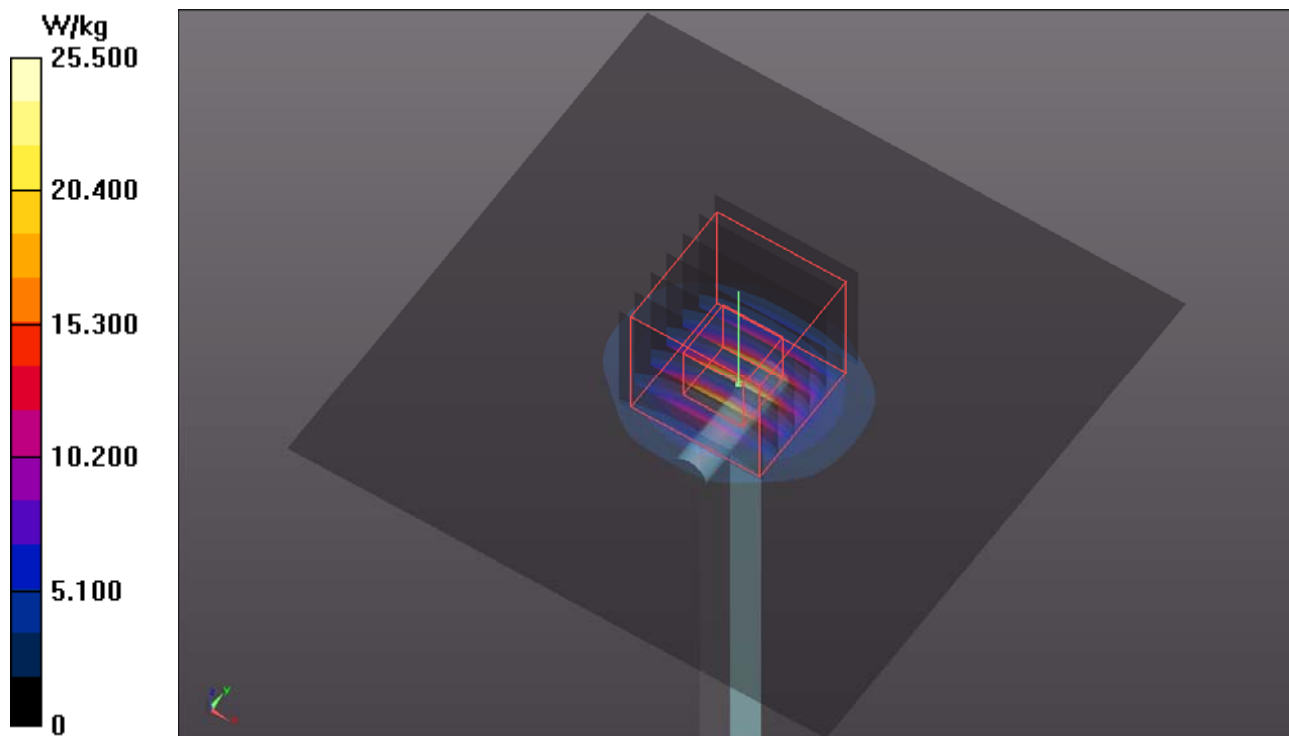
Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3898; ConvF(4.45, 4.45, 4.45); Calibrated: 2018/06/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2018/01/18
- Phantom: ELI Phantom_1204; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 25.5 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 65.55 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 50.1 W/kg
SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.21 W/kg
Maximum value of SAR (measured) = 28.5 W/kg





Appendix B. SAR Plots of SAR Measurement

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

P01 WCDMA II_RMC12.2K_Bottom_0mm_Ch9262

DUT: 180629C15

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

Medium: B16T20N2_0806 Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.537$ S/m; $\epsilon_r = 51.666$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.04, 8.04, 8.04); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

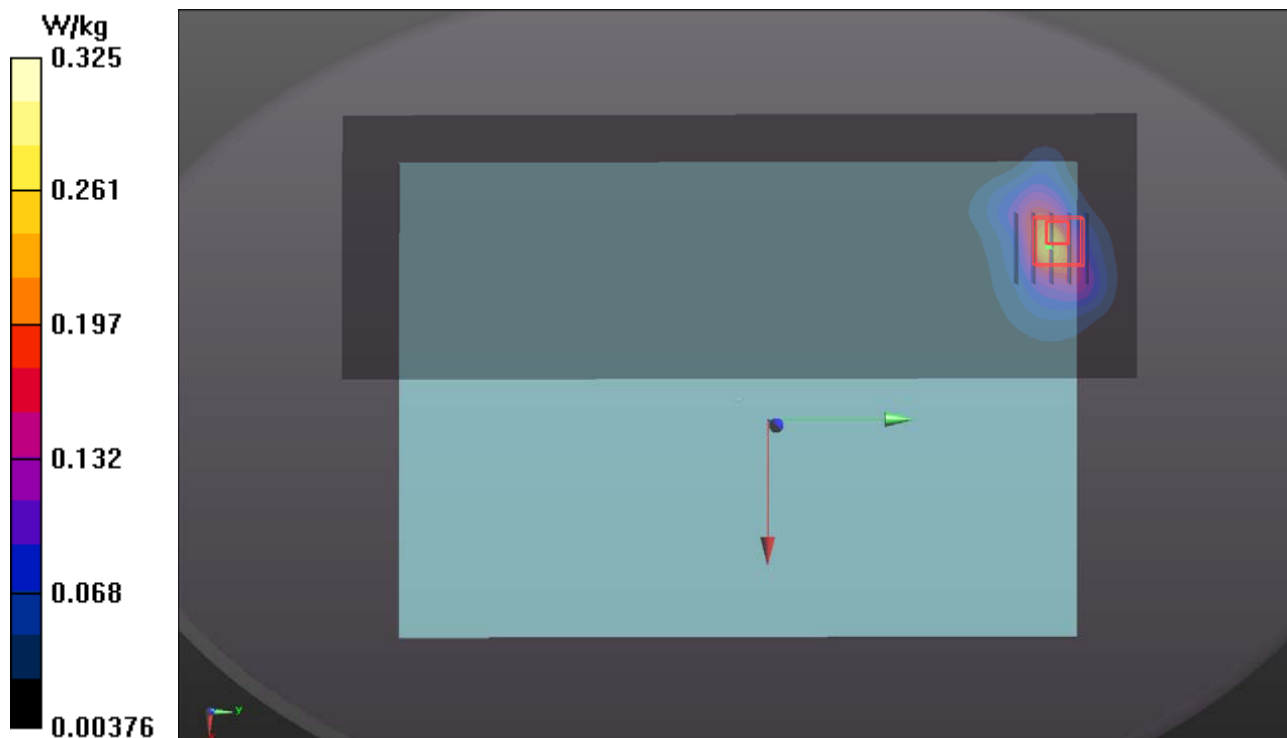
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.67 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.325 W/kg



P02 WCDMA IV_RMC12.2K_Bottom_0mm_Ch1413

DUT: 180629C15

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

Medium: B16T20N2_0806 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 51.981$; ρ

$= 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.45, 8.45, 8.45); Calibrated: 2018/02/28

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn679; Calibrated: 2018/03/05

- Phantom: ELI Phantom_1245; Type: QDOVA;

- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.251 W/kg

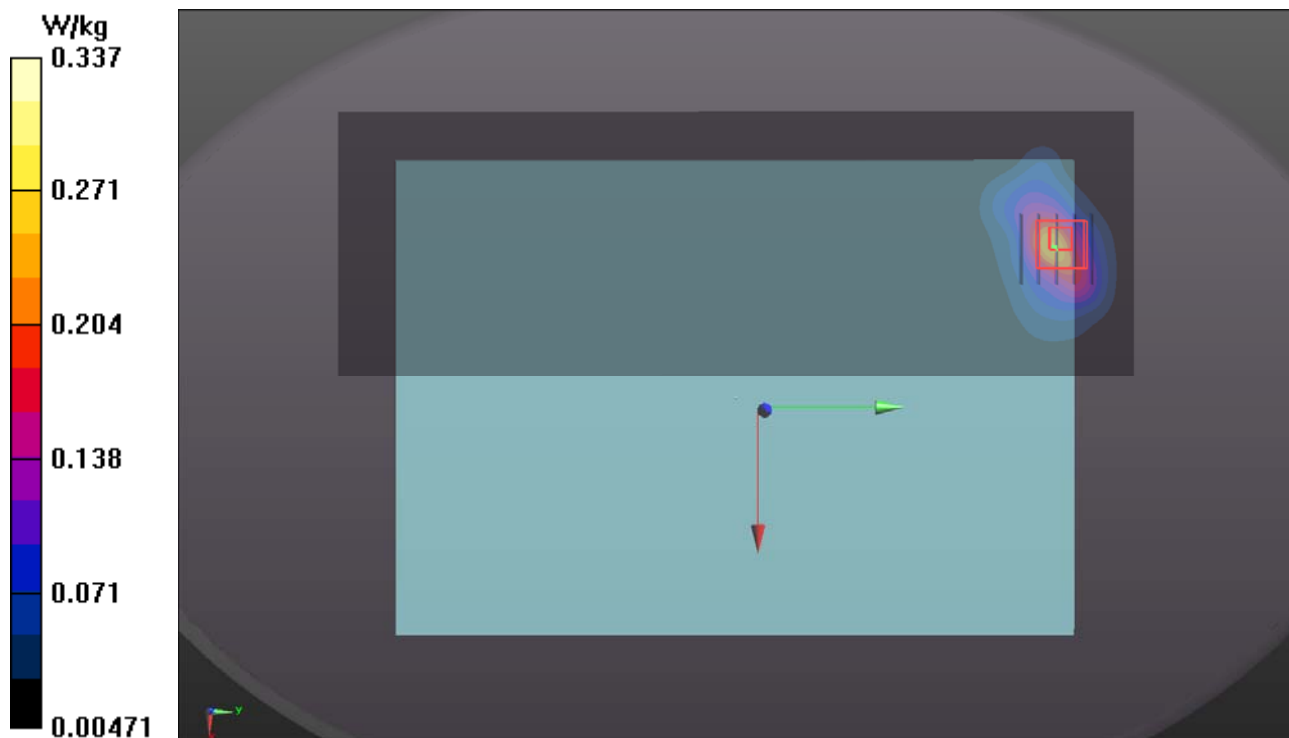
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.49 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.337 W/kg



P03 WCDMA V_RMC12.2K_Bottom_0mm_Ch4132

DUT: 180629C15

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

Medium: B07T10N1_0806 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 57.188$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.706 W/kg

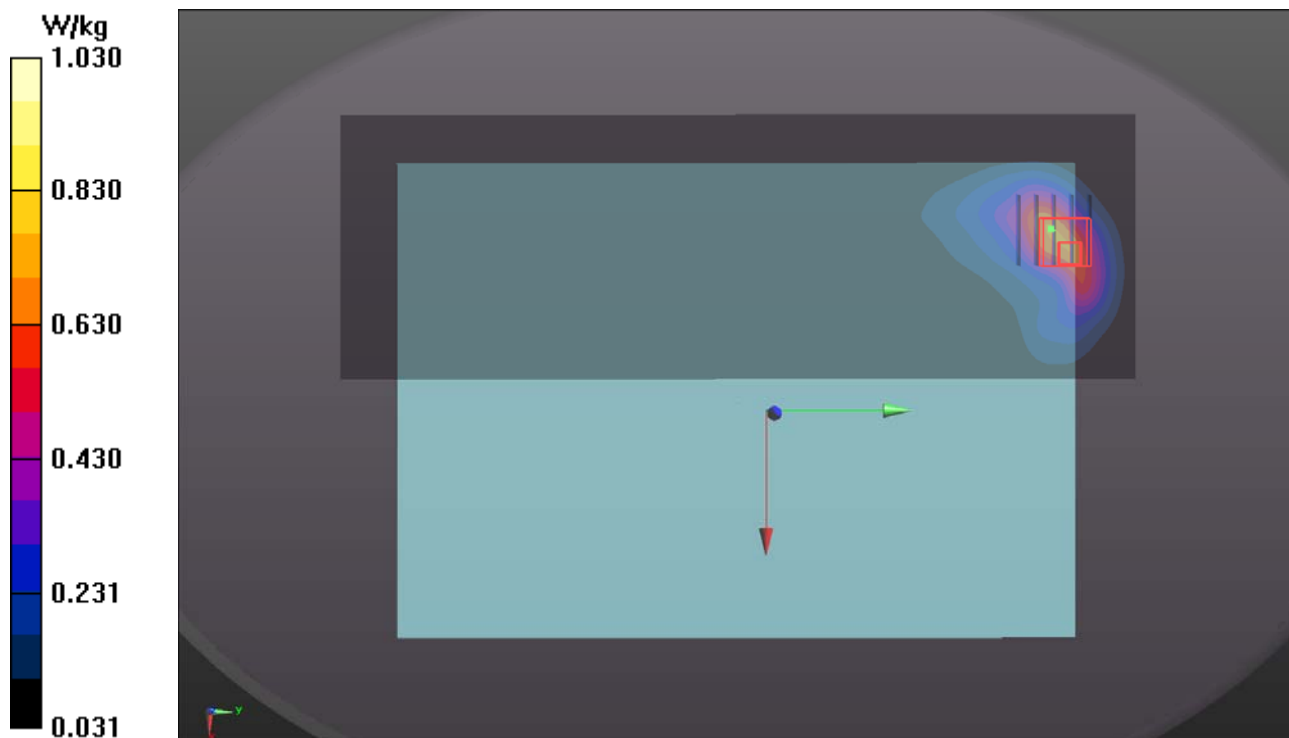
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.06 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.367 W/kg

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



P05 LTE 4_QPSK20M_Bottom_0mm_Ch20300_1RB_OS0

DUT: 180629C15

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

Medium: B16T20N2_0806 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 51.959$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.45, 8.45, 8.45); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.793 W/kg

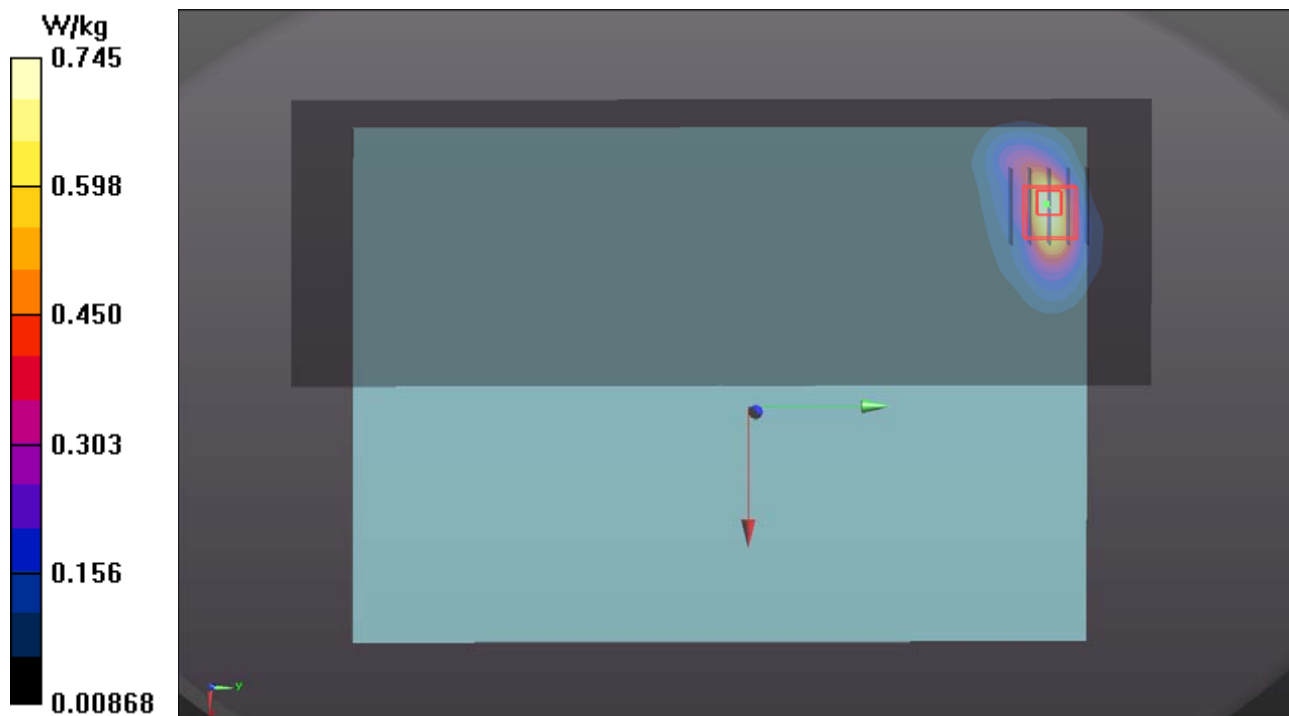
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.52 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.949 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.745 W/kg



P06 LTE 5_QPSK10M_Bottom_0mm_Ch20450_1RB_OS0

DUT: 180629C15

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B07T10N1_0803 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.971 \text{ S/m}$; $\epsilon_r = 57.787$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x111x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.855 W/kg

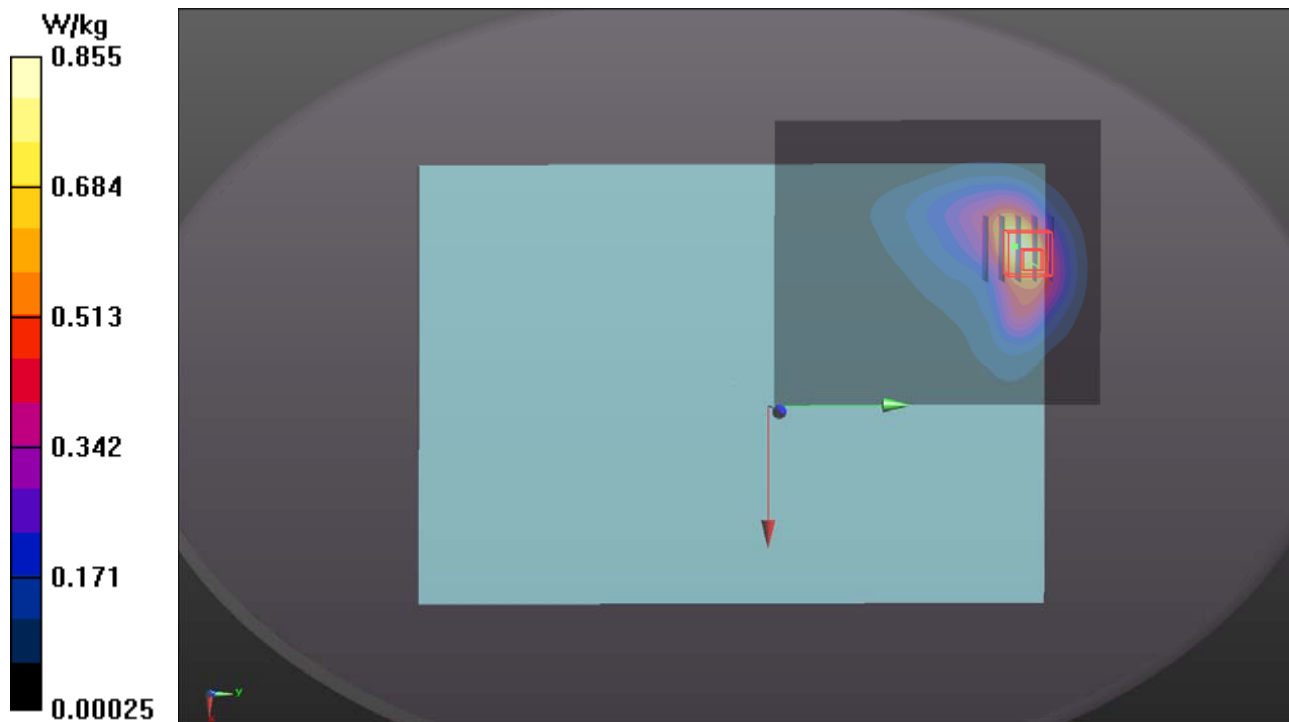
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.04 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.341 W/kg

Maximum value of SAR (measured) = 0.953 W/kg



P08 LTE 7_QPSK20M_Bottom_0mm_Ch21350_1RB_OS0

DUT: 180629C15

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

Medium: B19T27N1_0803 Medium parameters used: $f = 2560$ MHz; $\sigma = 2.139$ S/m; $\epsilon_r = 50.243$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.44, 7.44, 7.44); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (121x141x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.397 W/kg

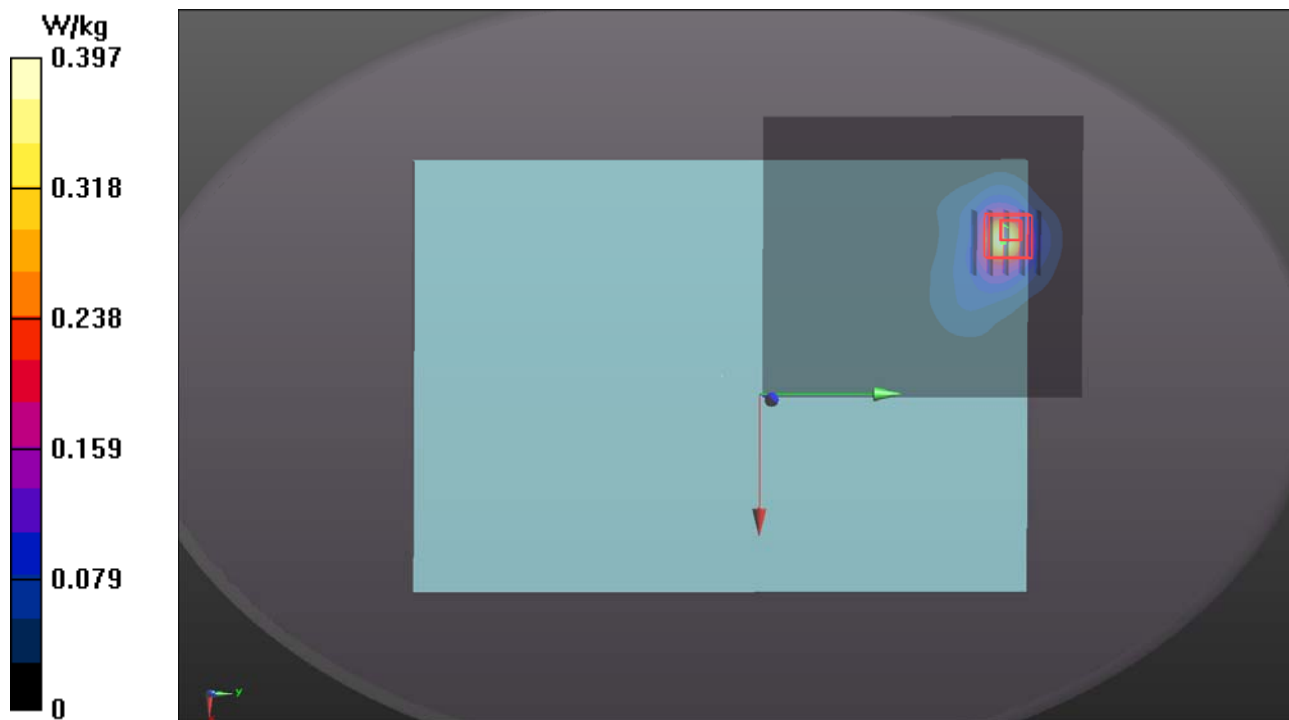
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.85 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.563 W/kg

SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.405 W/kg



P10 LTE 12_QPSK10M_Bottom_0mm_Ch23130_1RB_OS0

DUT: 180629C15

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

Medium: B06T09N1_0806 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.924 \text{ S/m}$; $\epsilon_r = 56.804$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.893 W/kg

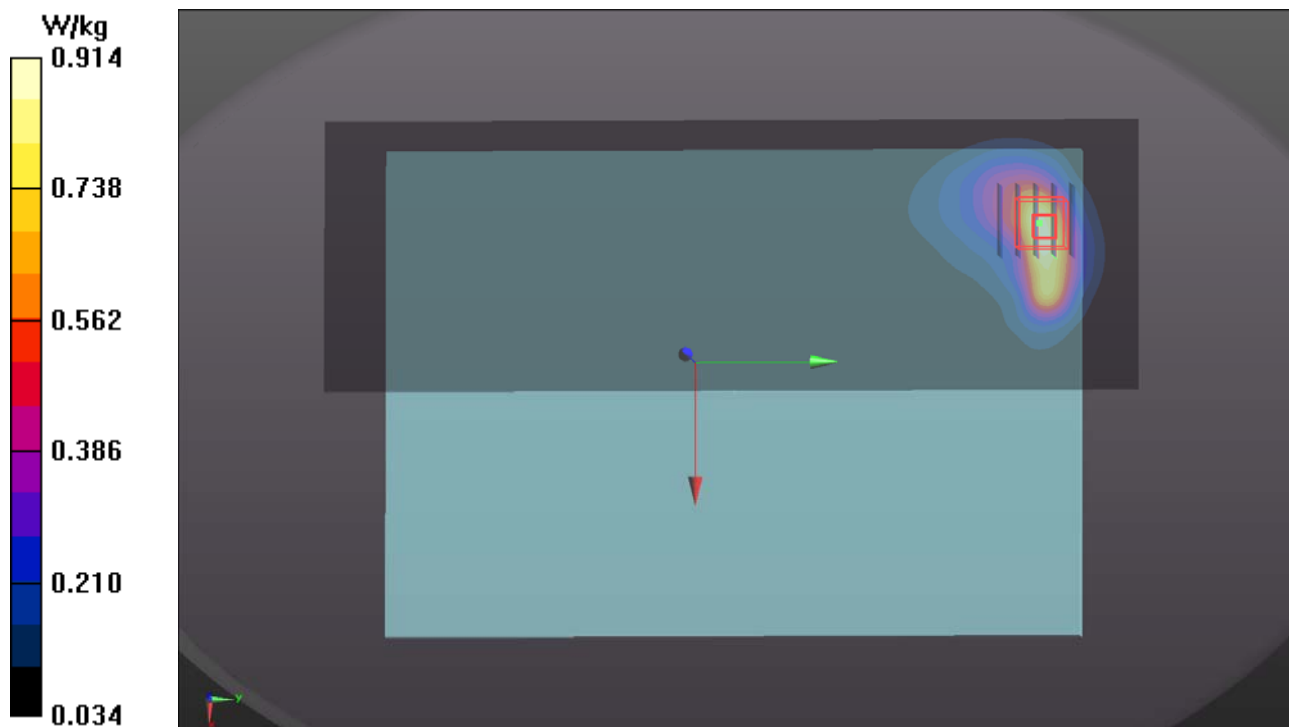
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.71 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 0.914 W/kg



P11 LTE 13_QPSK10M_Bottom_0mm_Ch23230_1RB_OS0

DUT: 180629C15

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

Medium: B06T09N1_0806 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 56.114$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.8 \text{ }^\circ\text{C}$; Liquid Temperature : $23.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.997 W/kg

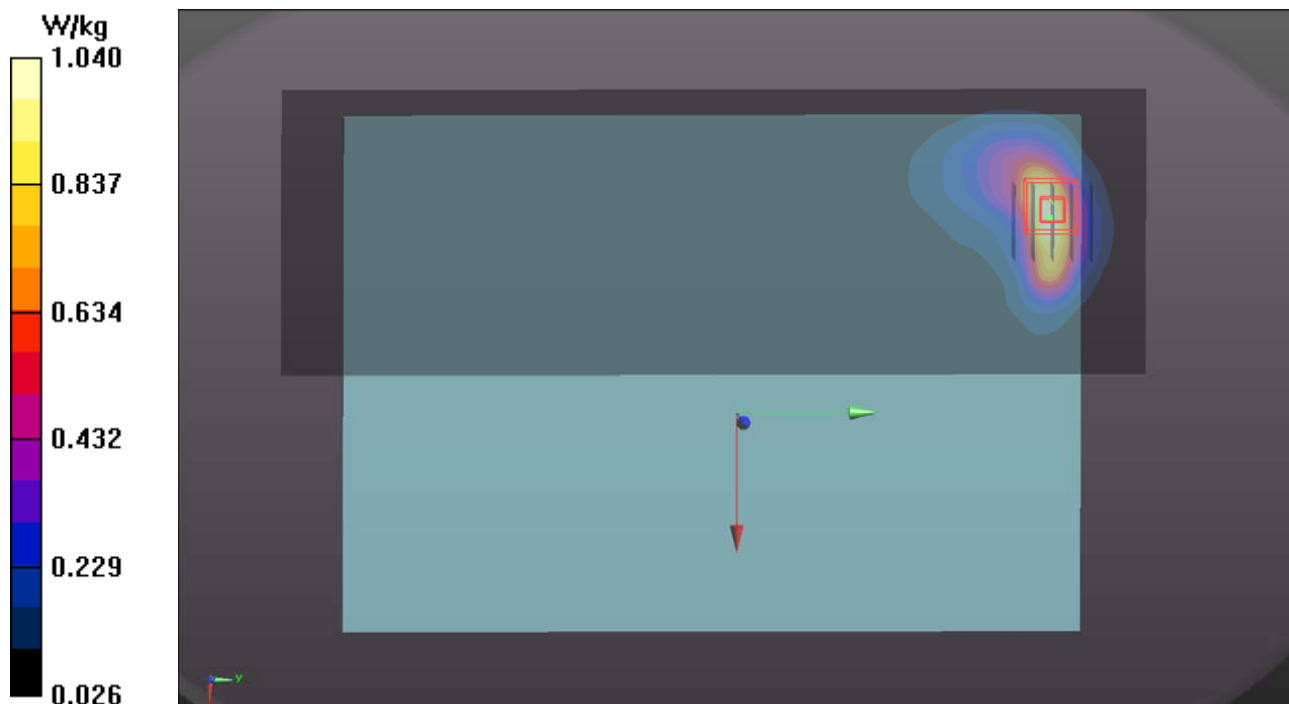
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.26 V/m ; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.678 W/kg ; SAR(10 g) = 0.377 W/kg

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



P12 LTE 14_QPSK10M_Bottom_0mm_Ch23330_1RB_OS0

DUT: 180629C15

Communication System: LTE; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: B07T10N1_0806 Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.93 \text{ S/m}$; $\epsilon_r = 57.439$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.8 \text{ }^\circ\text{C}$; Liquid Temperature : $23.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

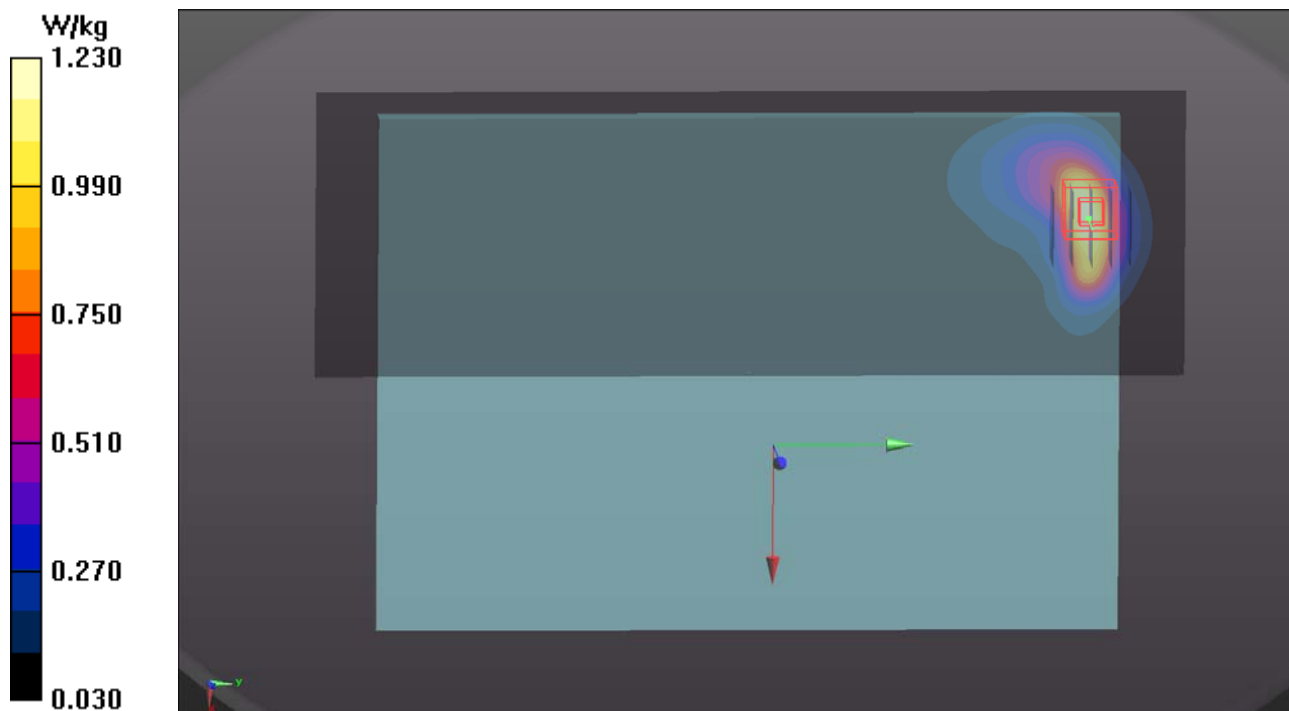
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.58 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.698 W/kg ; SAR(10 g) = 0.450 W/kg

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



P13 LTE 17_QPSK10M_Bottom_0mm_Ch23790_1RB_OS49

DUT: 180629C15

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium: B06T09N1_0809 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.921 \text{ S/m}$; $\epsilon_r = 55.85$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.6 \text{ }^\circ\text{C}$; Liquid Temperature : $23.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.10 W/kg

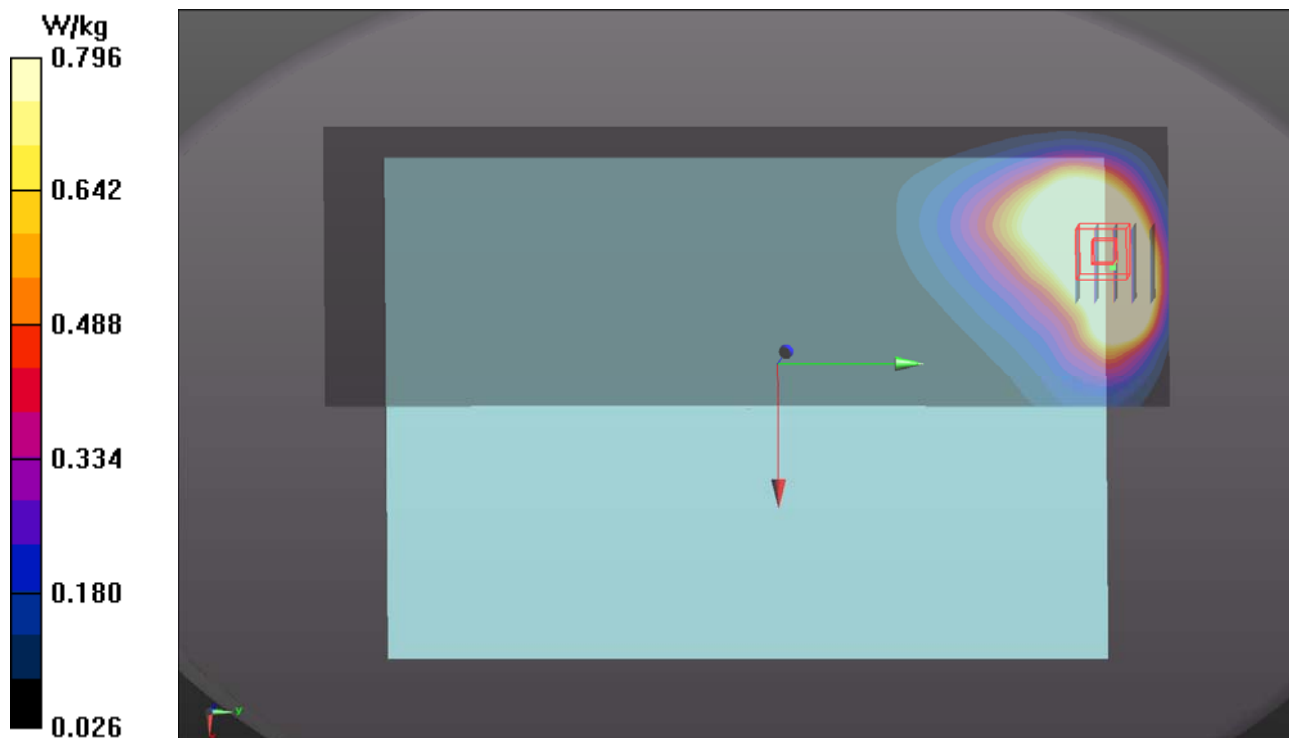
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 60.40 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.988 W/kg

SAR(1 g) = 0.499 W/kg ; SAR(10 g) = 0.282 W/kg

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



P14 LTE 25_QPSK20M_Bottom_0mm_Ch26365_1RB_OS0

DUT: 180629C15

Communication System: LTE; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: B16T20N2_0806 Medium parameters used: $f = 1882.5$ MHz; $\sigma = 1.565$ S/m; $\epsilon_r = 51.608$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.04, 8.04, 8.04); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.639 W/kg

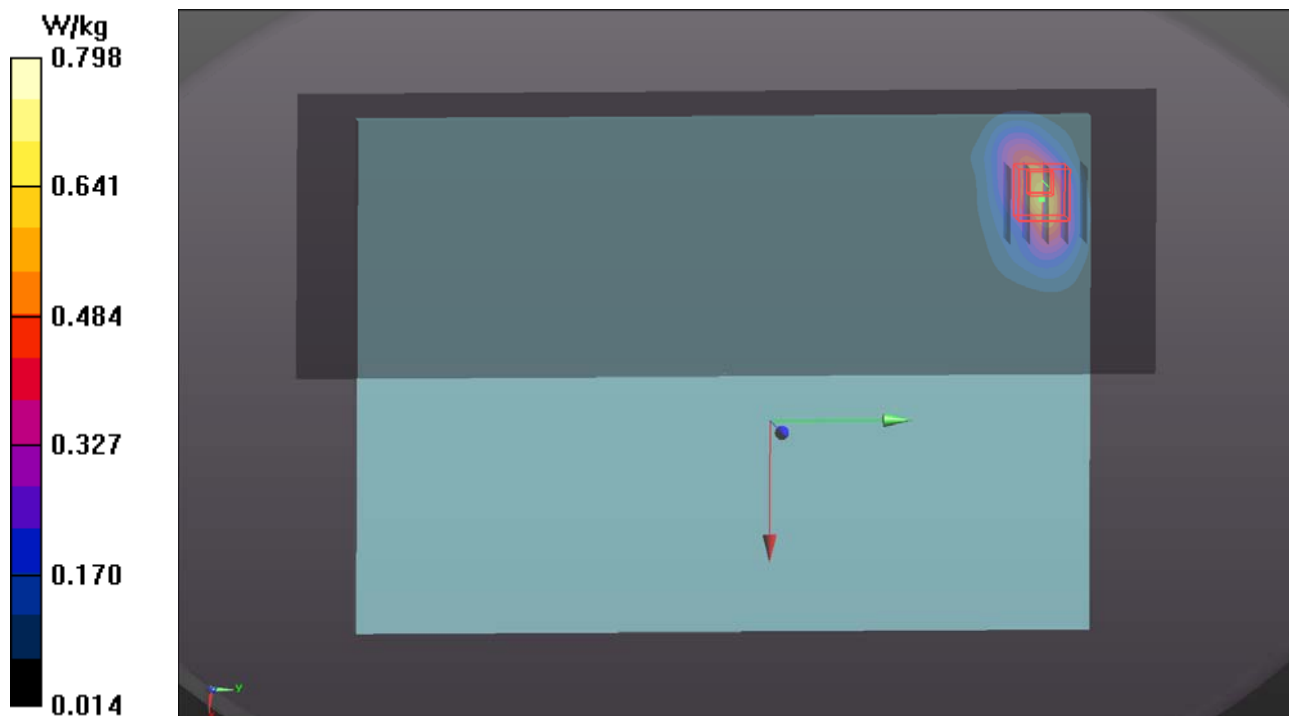
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.49 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.976 W/kg

SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.248 W/kg

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



P15 LTE 26_QPSK15M_Bottom_0mm_Ch26765_1RB_OS0

DUT: 180629C15

Communication System: LTE; Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium: B07T10N1_0806 Medium parameters used: $f = 821.5$ MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 57.225$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

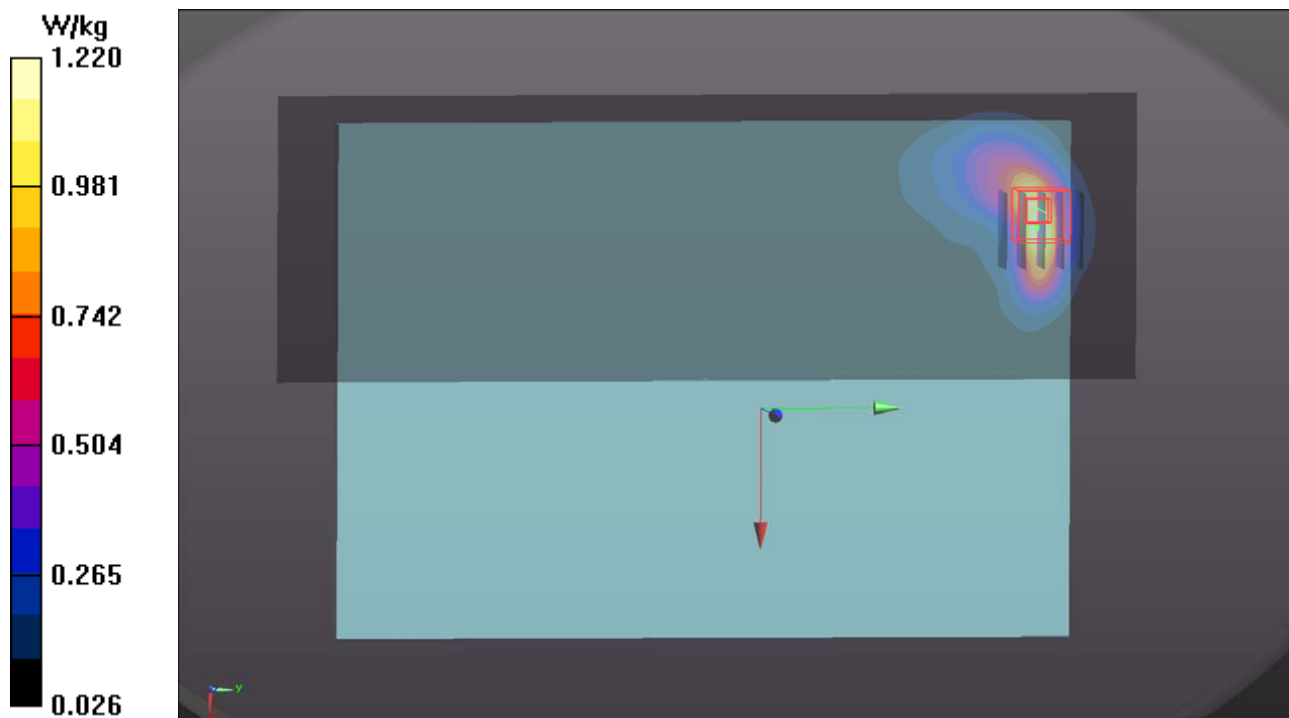
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 37.55 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.424 W/kg

Maximum value of SAR (measured) = 1.22 W/kg



P16 LTE 30_QPSK10M_Bottom_0mm_Ch27710_1RB_OS0

DUT: 180629C15

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: B19T27N2_0806 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.868$ S/m; $\epsilon_r = 50.916$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.89, 7.89, 7.89); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.670 W/kg

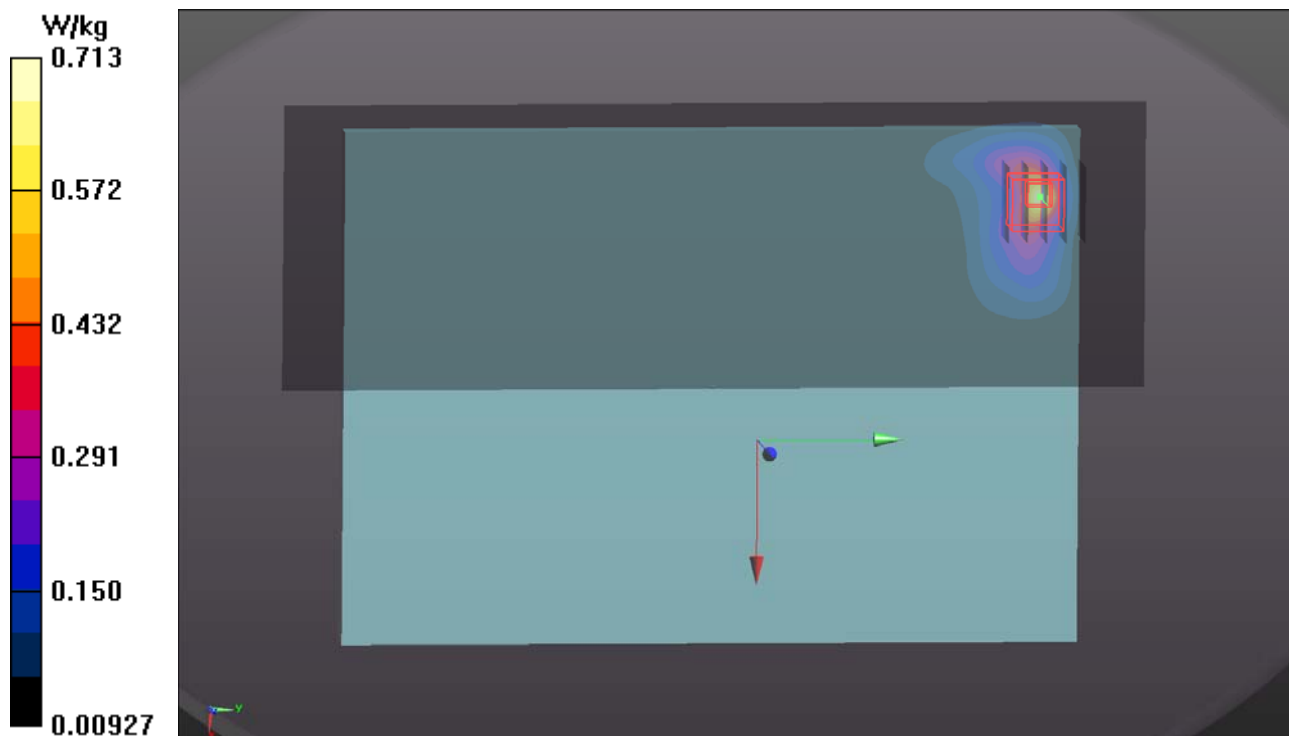
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.82 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.908 W/kg

SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 0.713 W/kg



P17 LTE 38_QPSK20M_Bottom_0mm_Ch38150_1RB_OS0

DUT: 180629C15

Communication System: LTE TDD CF0; Frequency: 2610 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_0809 Medium parameters used: $f = 2610$ MHz; $\sigma = 2.206$ S/m; $\epsilon_r = 50.895$; $\rho =$

1000 kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.44, 7.44, 7.44); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.315 W/kg

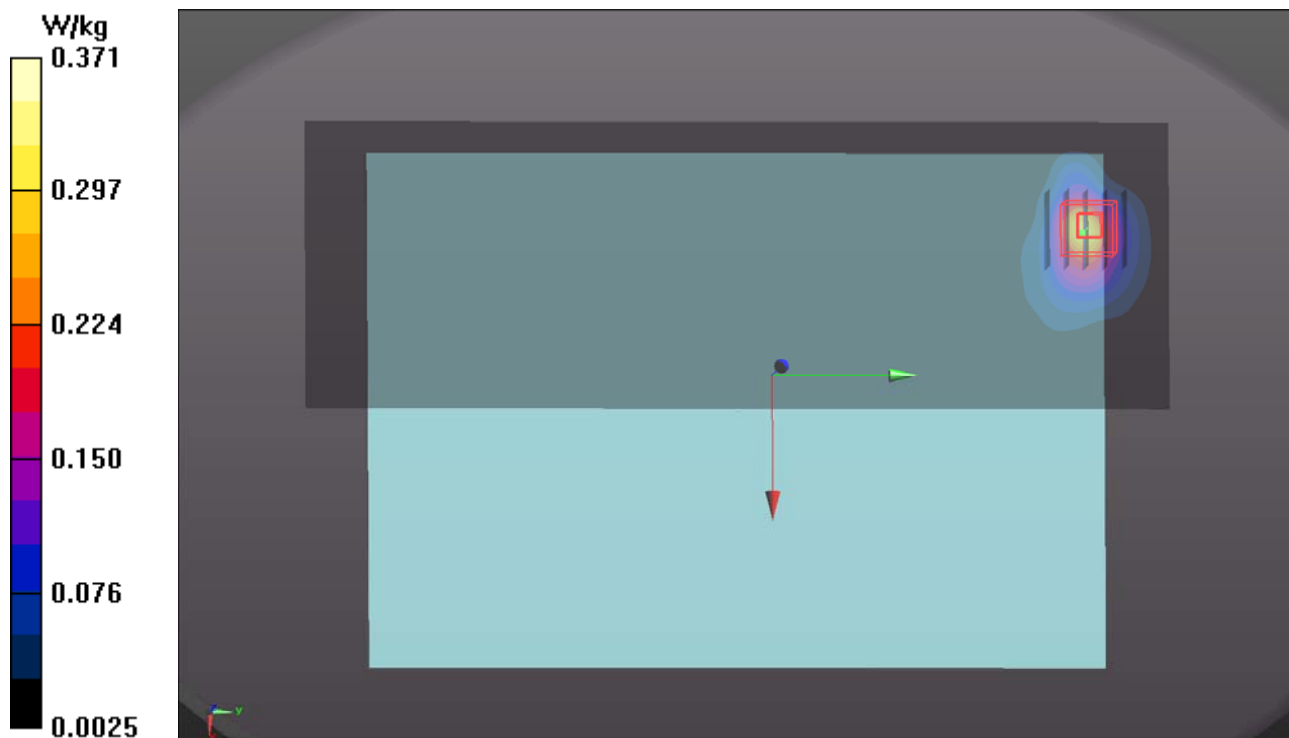
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.30 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.548 W/kg

SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.371 W/kg



P18 LTE 41_QPSK20M_Bottom_0mm_Ch40620_1RB_OS0

DUT: 180629C15

Communication System: LTE TDD CF0; Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_0803 Medium parameters used: $f = 2593$ MHz; $\sigma = 2.179$ S/m; $\epsilon_r = 50.178$; $\rho =$

1000 kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.44, 7.44, 7.44); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (121x141x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.514 W/kg

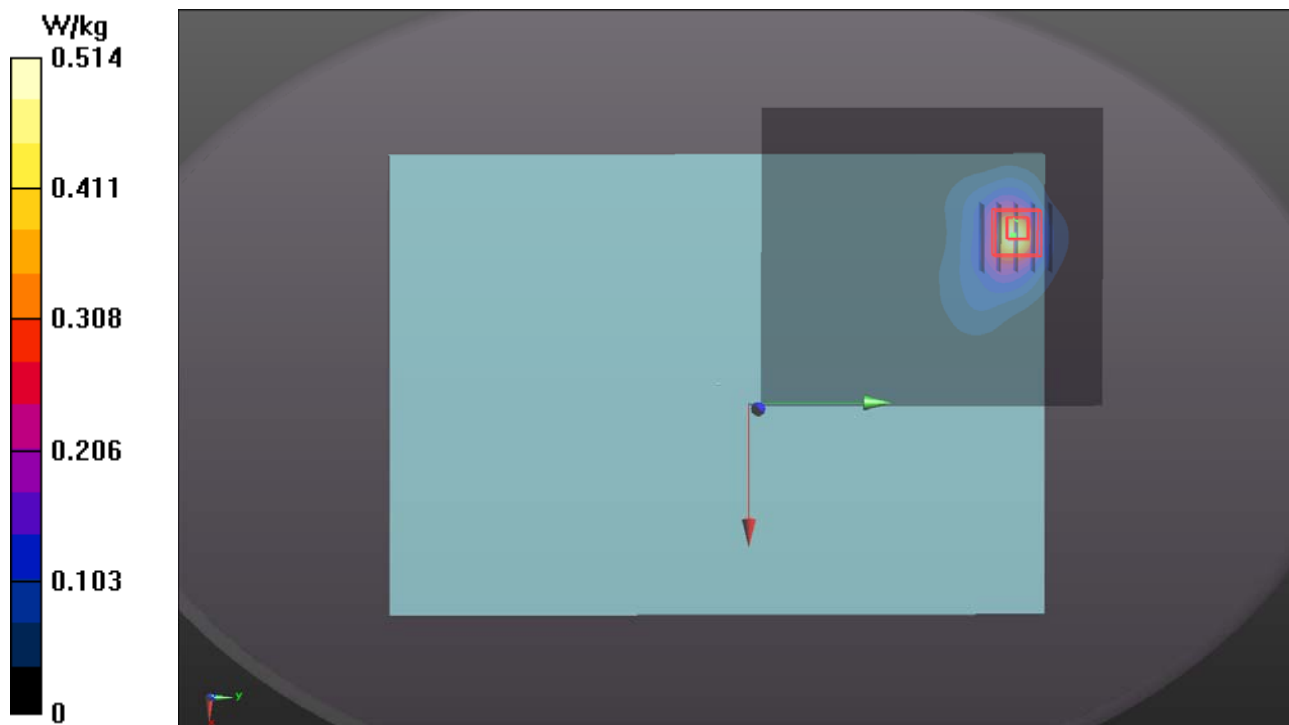
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.54 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.155 W/kg

Maximum value of SAR (measured) = 0.517 W/kg



P20 LTE 66_QPSK20M_Bottom_0mm_Ch132072_1RB_OS0

DUT: 180629C15

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: B16T20N2_0806 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 52.017$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.45, 8.45, 8.45); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.44 W/kg

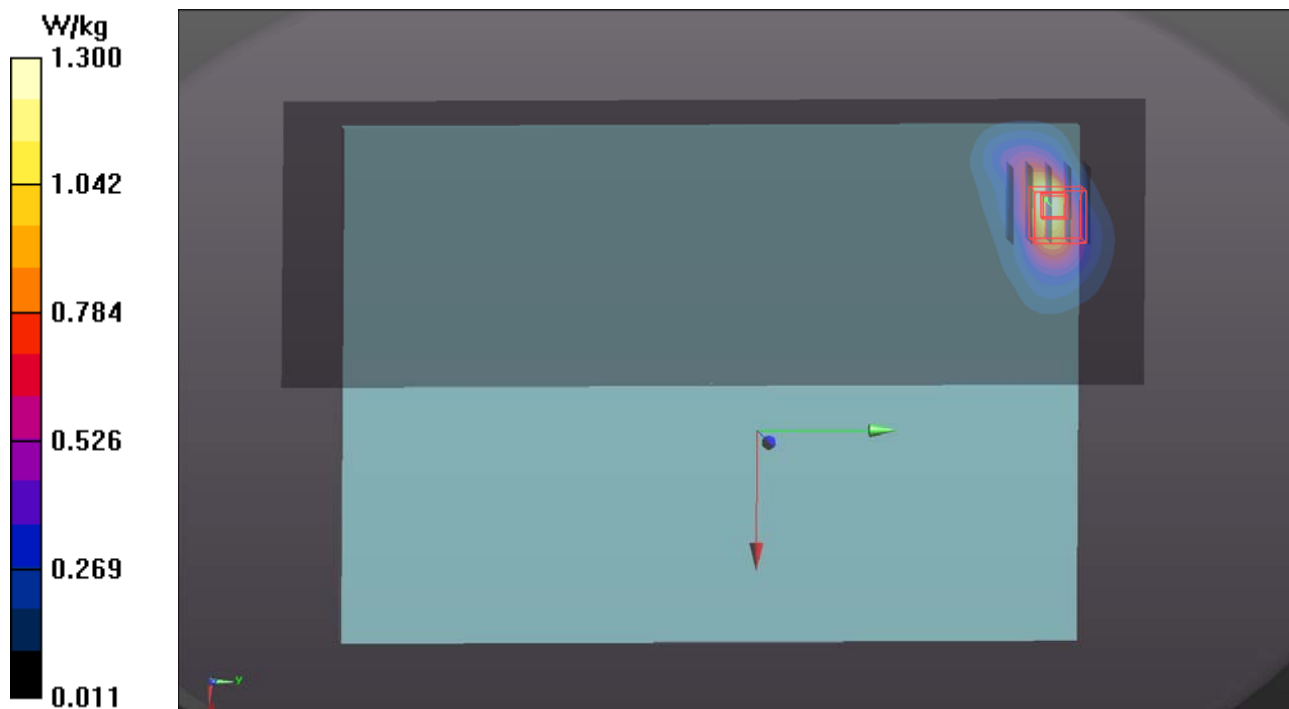
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.24 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.475 W/kg

Maximum value of SAR (measured) = 1.30 W/kg



P21 WLAN2.4G_802.11b_Bottom_0mm_Ch6_Ant0

DUT: 180629C15

Communication System: WLAN_2.4G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: B19T27N1_0809 Medium parameters used: $f = 2437$ MHz; $\sigma = 2.003$ S/m; $\epsilon_r = 51.331$; $\rho =$

1000 kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.78, 7.78, 7.78); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (91x141x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.827 W/kg

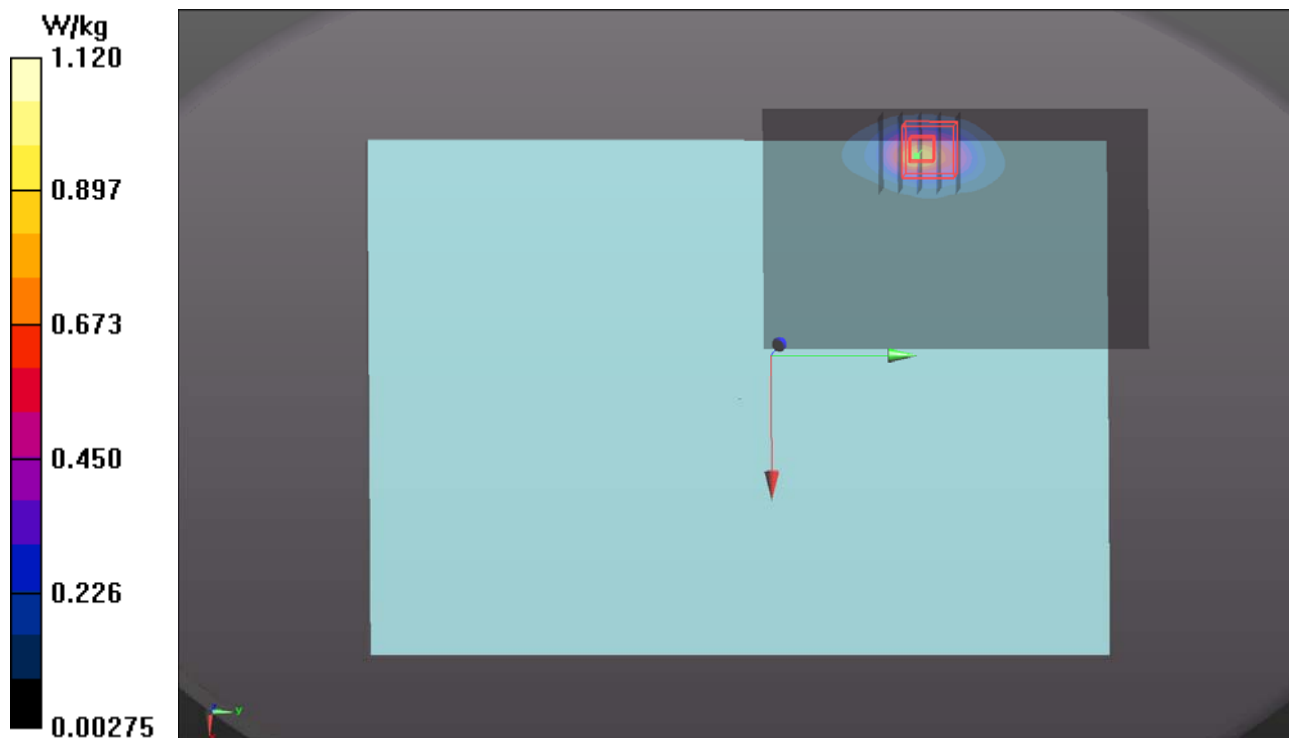
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.37 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.244 W/kg

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



P22 WLAN5G_802.11ac VHT80_Bottom_0mm_Ch58_Ant1

DUT: 180629C15

Communication System: WLAN_5G; Frequency: 5290 MHz; Duty Cycle: 1:1.08

Medium: B34T60N3_0809 Medium parameters used: $f = 5290$ MHz; $\sigma = 5.475$ S/m; $\epsilon_r = 49.177$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.06, 5.06, 5.06); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x161x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.625 W/kg

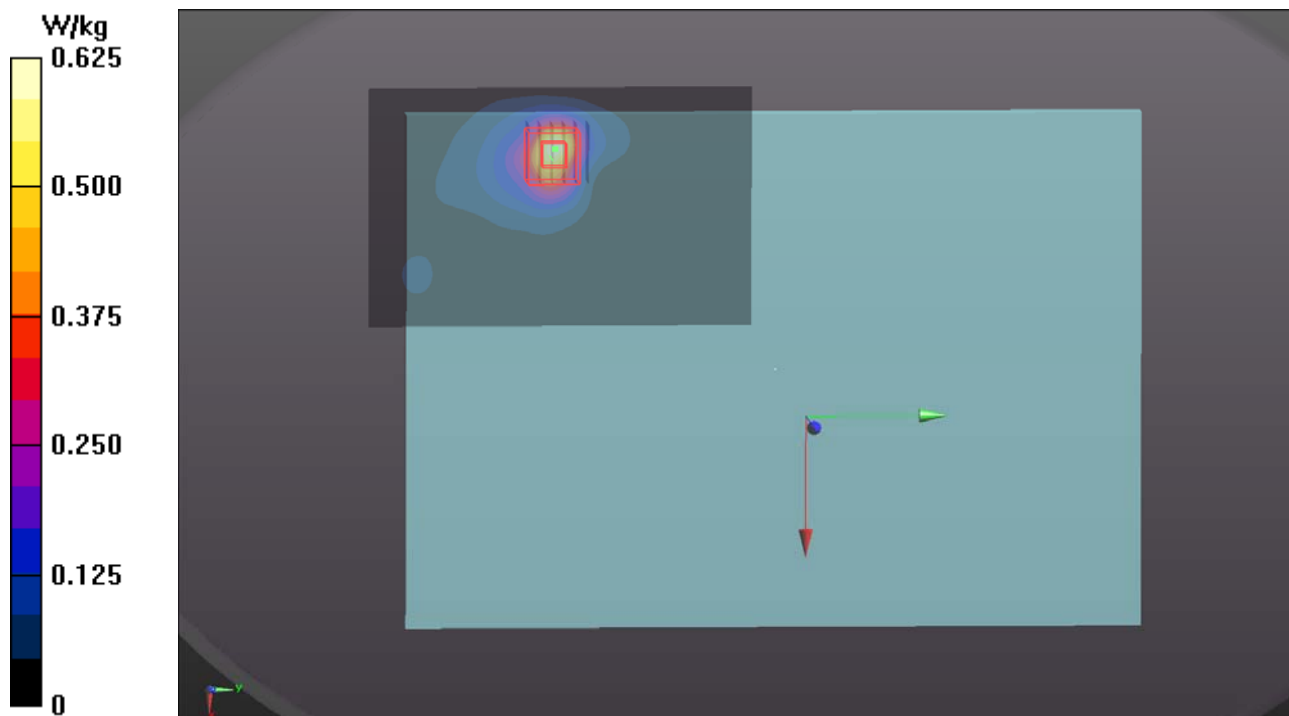
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 9.781 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.181 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



P23 Y NCP7I a: 240B3ce'XJ V: 2aDqwqo a2o o aEj 328aCpv2- 3DUT: 180629C15

Communication System: WLAN_5G; Frequency: 5530 MHz; Duty Cycle: 1:1.08

Medium: B34T60N3_0809 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.758$ S/m; $\epsilon_r = 48.871$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

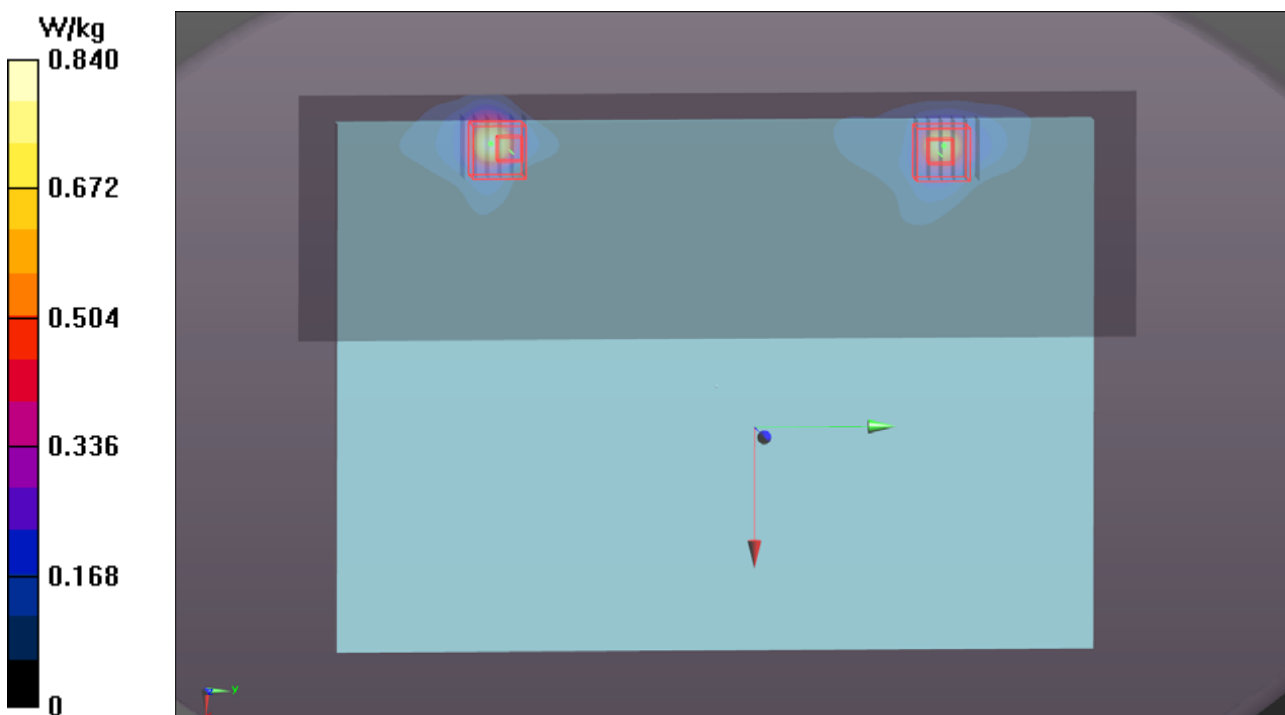
DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.35, 4.35, 4.35); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x341x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.840 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 11.48 V/m; Power Drift = -0.38 dB
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.174 W/kg
Maximum value of SAR (measured) = 1.00 W/kg

- **Zoom Scan (6x6x12)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 11.48 V/m; Power Drift = -0.38 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.098 W/kg
Maximum value of SAR (measured) = 0.848 W/kg



P24 WLAN5G_802.11ac VHT80_Bottom_0mm_Ch155_Ant0

DUT: 180629C15

Communication System: WLAN_5G; Frequency: 5775 MHz; Duty Cycle: 1:1.08

Medium: B34T60N3_0809 Medium parameters used: $f = 5775$ MHz; $\sigma = 6.086$ S/m; $\epsilon_r = 48.848$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.52, 4.52, 4.52); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x161x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

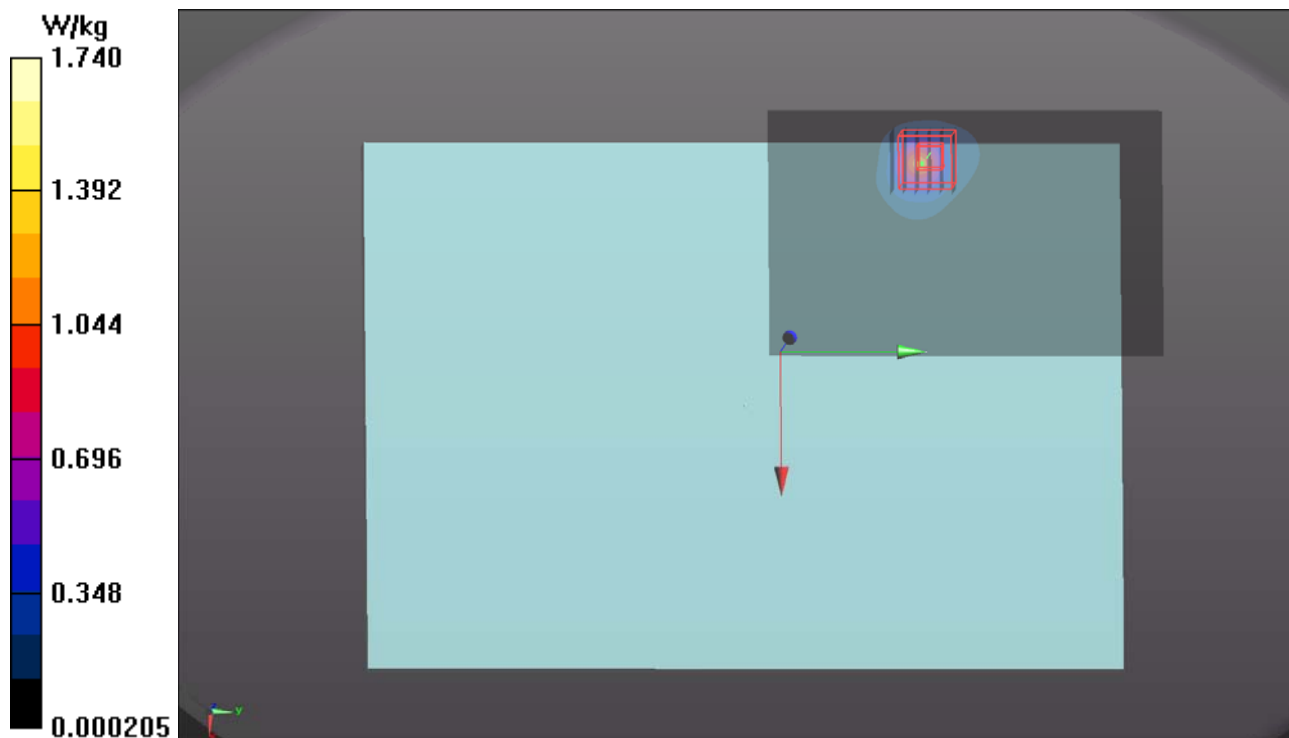
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 13.19 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 3.20 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 1.74 W/kg



P25 WCDMA II_RMC12.2K_Rear Face_0mm_Ch9538_Reduction_W

DUT: 180629C15

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

Medium: B16T2N2_0806 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.588$ S/m; $\epsilon_r = 51.535$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.04, 8.04, 8.04); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

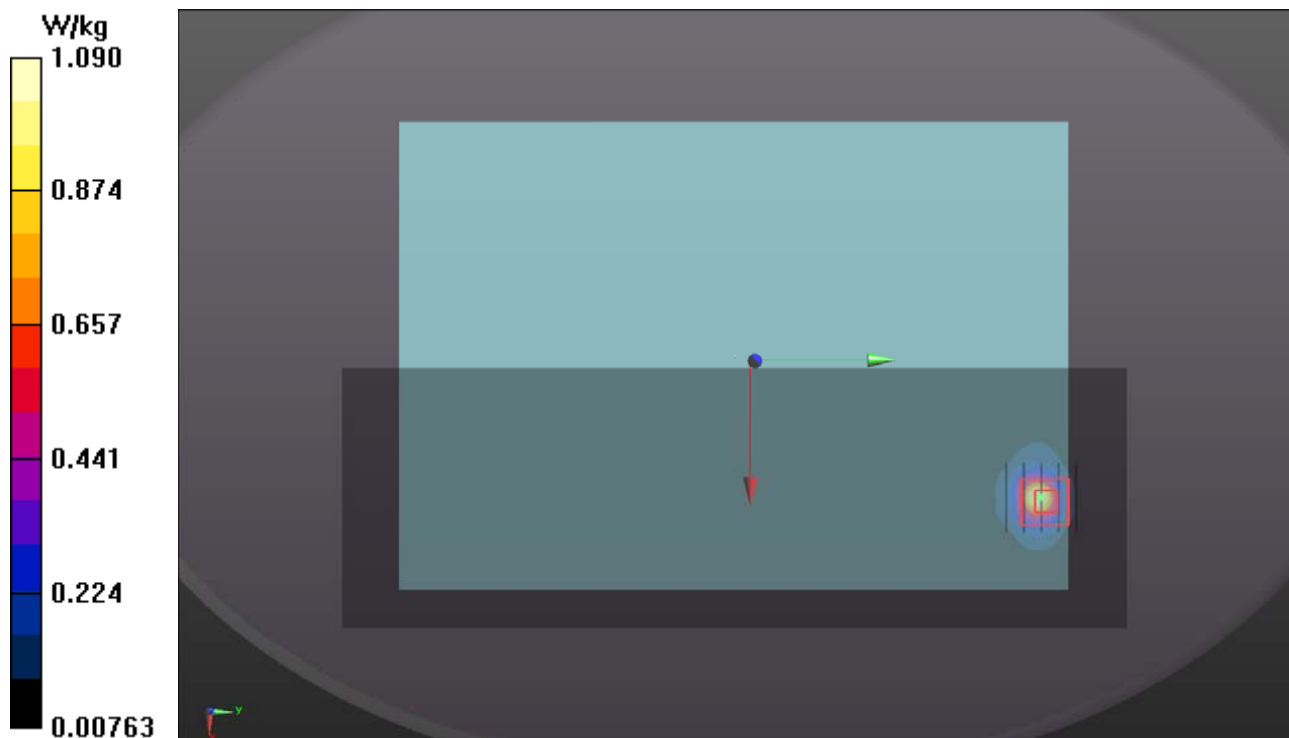
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.31 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.240 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



P26 WCDMA IV_RMC12.2K_Rear Face_0mm_Ch1413_Reduction_W

DUT: 180629C15

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

Medium: B16T20N2_0806 Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 51.981$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.45, 8.45, 8.45); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

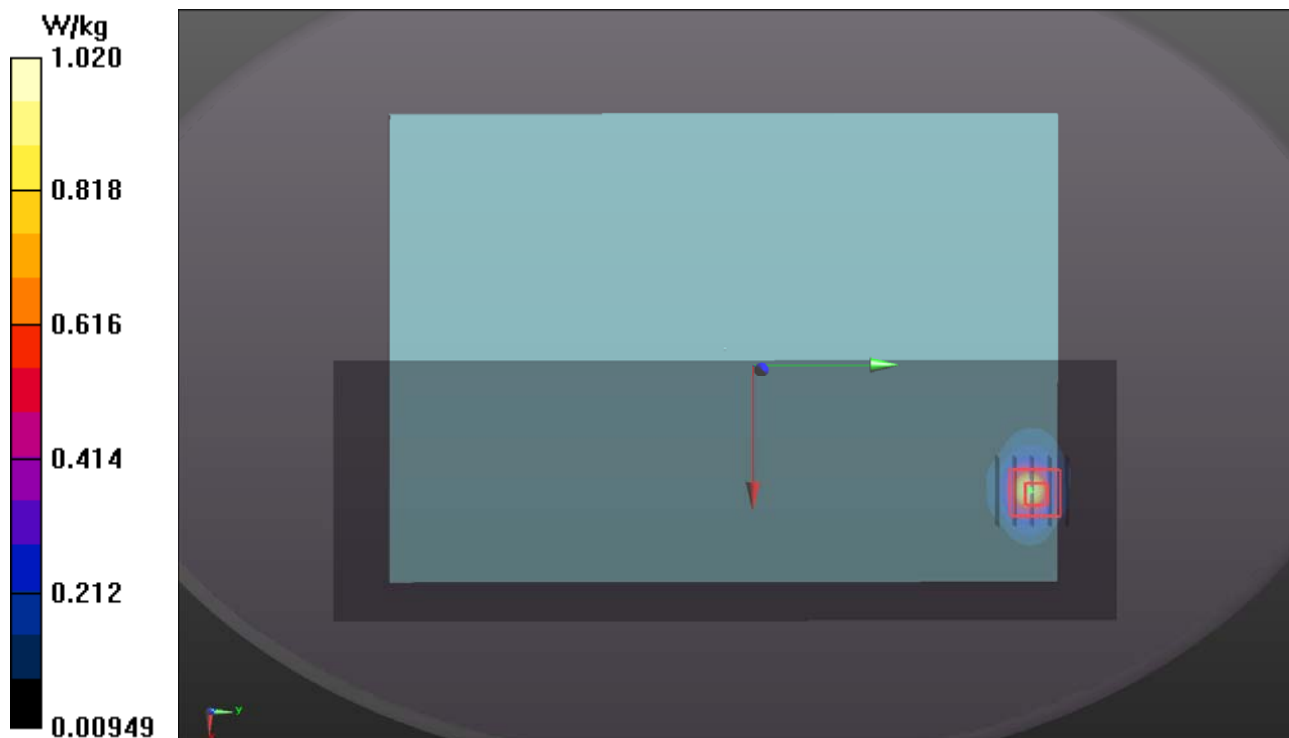
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.63 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.244 W/kg

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



P27 WCDMA V_RMC12.2K_Rear Face_0mm_Ch4132_Reduction_W

DUT: 180629C15

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

Medium: B07T10N1_0806 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 57.188$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

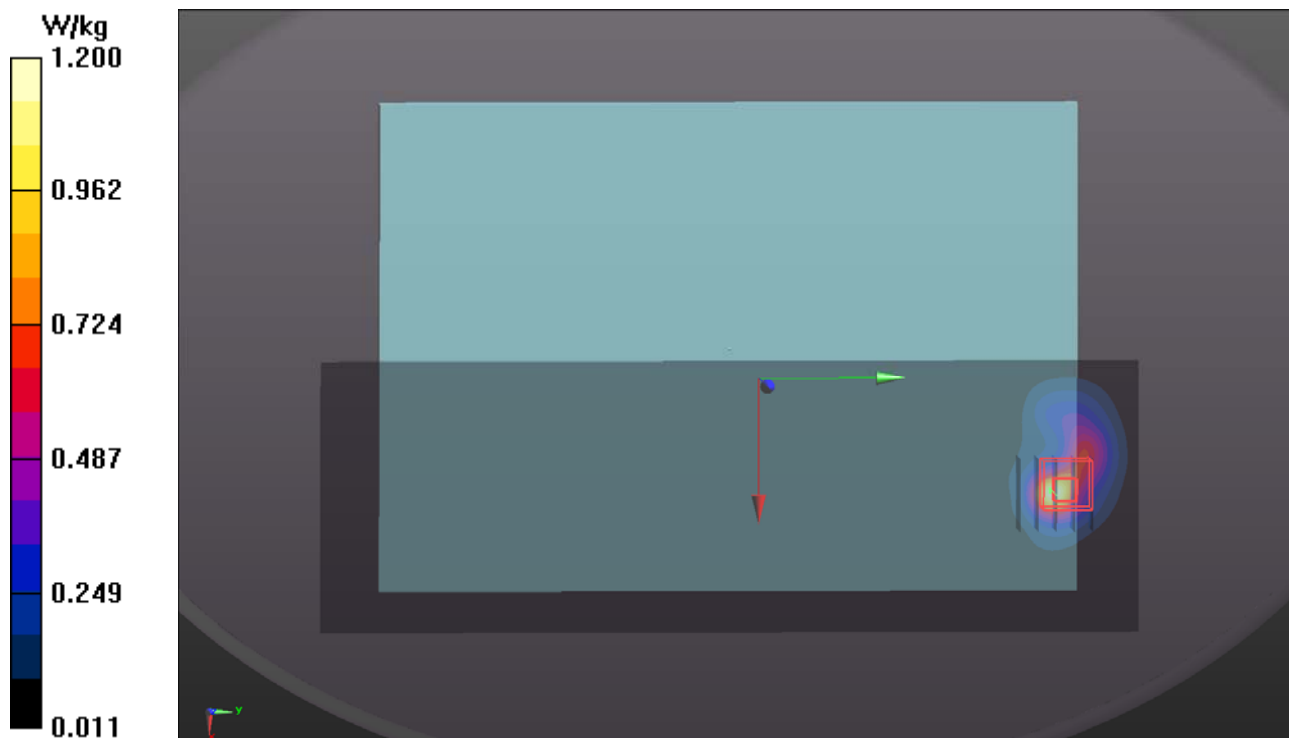
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.37 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.361 W/kg

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



P28 LTE 2_QPSK20M_Rear Face_0mm_Ch19100_1RB_OS0_Reduction_W

DUT: 180629C15

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

Medium: B16T20N1_0803 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.569$ S/m; $\epsilon_r = 51.455$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.04, 8.04, 8.04); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.853 W/kg

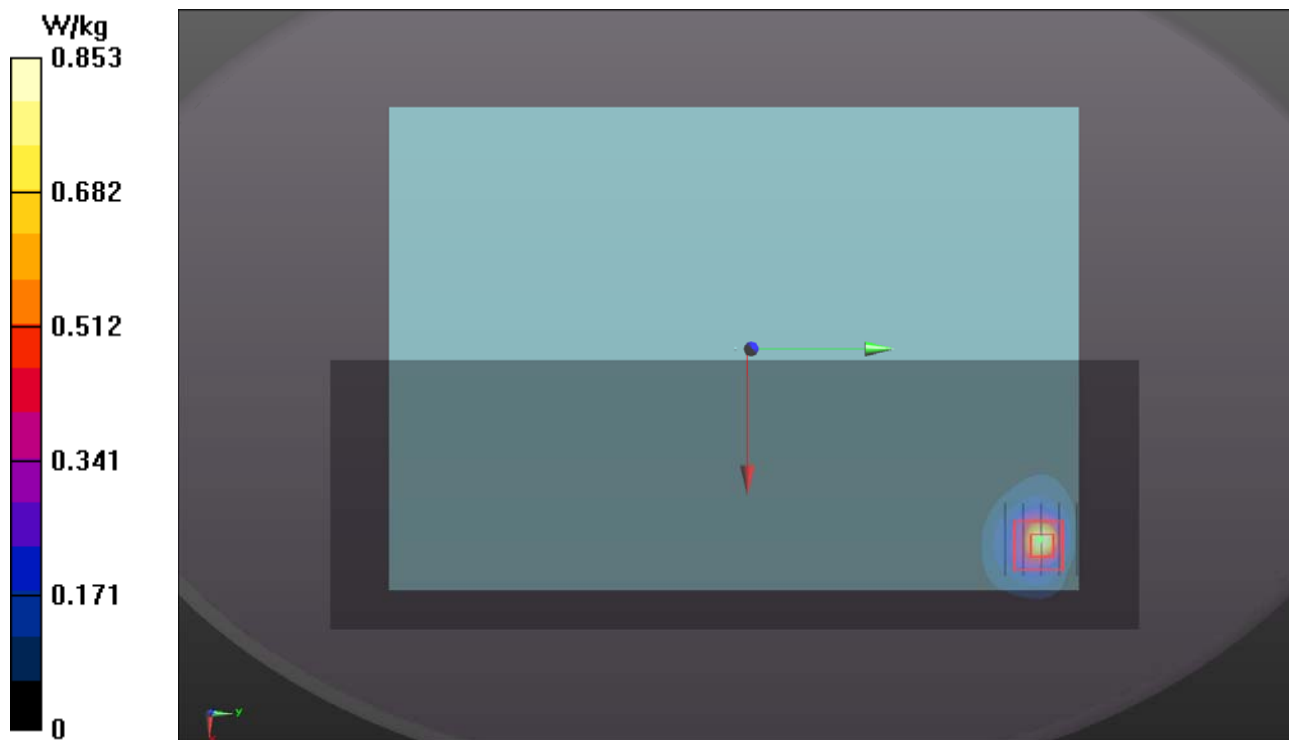
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.87 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.227 W/kg

Maximum value of SAR (measured) = 0.929 W/kg



P29 LTE 4_QPSK20M_Rear Face_0mm_Ch20050_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: B16T20N1_0803 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 51.942$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.45, 8.45, 8.45); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.826 W/kg

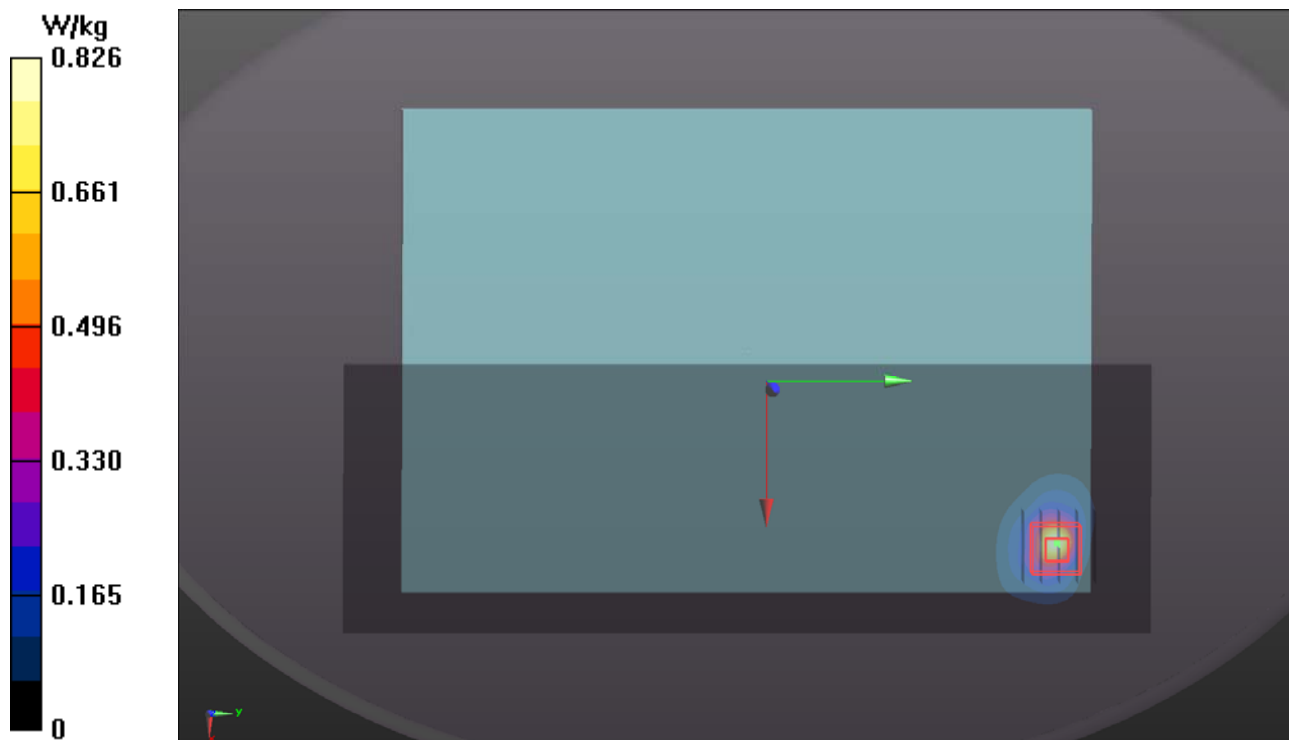
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.02 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.227 W/kg

Maximum value of SAR (measured) = 0.842 W/kg



P30 LTE 5_QPSK10M_Rear Face_0mm_Ch20450_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B07T10N1_0731 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.974 \text{ S/m}$; $\epsilon_r = 56.349$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.7 \text{ }^\circ\text{C}$; Liquid Temperature : $23.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x101x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.37 W/kg

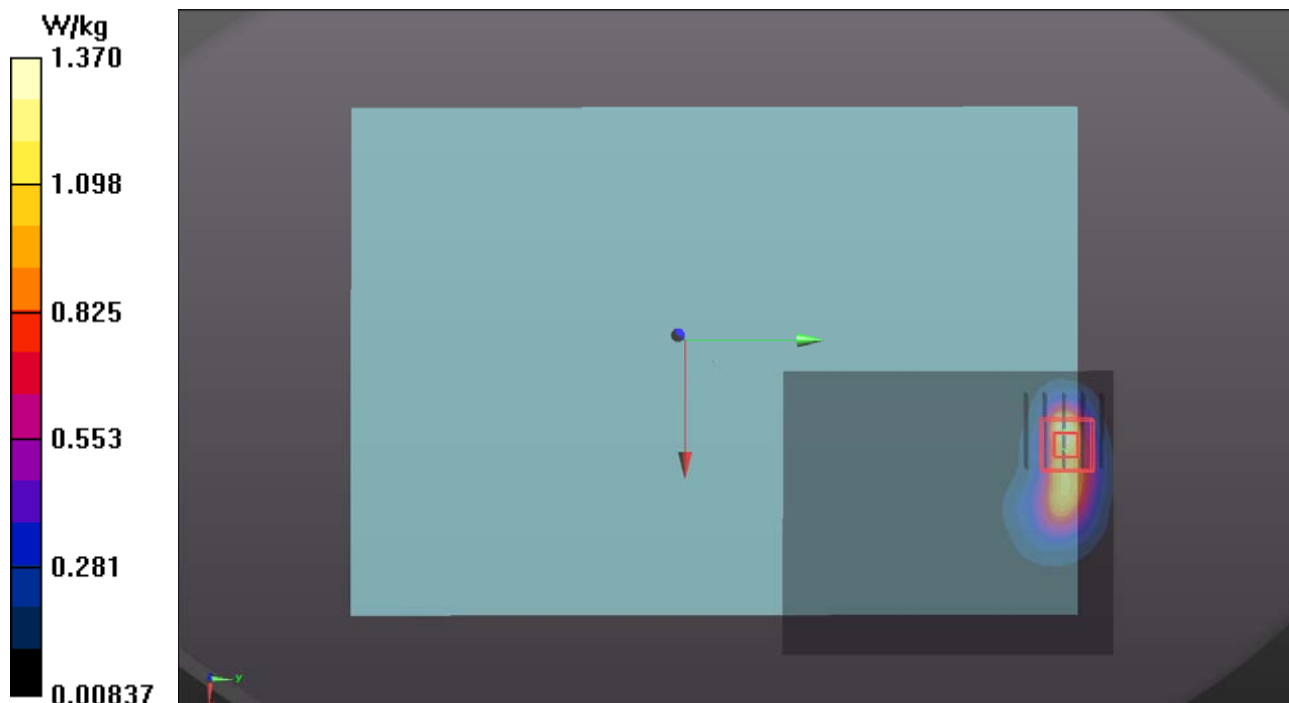
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.54 V/m ; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.663 W/kg ; SAR(10 g) = 0.283 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



P32 LTE 7_QPSK20M_Right Side_20mm_Ch21350_1RB_OS0_Reduction_W_O

DUT: 180629C15

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

Medium: B19T27N1_0801 Medium parameters used: $f = 2560$ MHz; $\sigma = 2.123$ S/m; $\epsilon_r = 52.251$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.44, 7.44, 7.44); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (51x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.51 W/kg

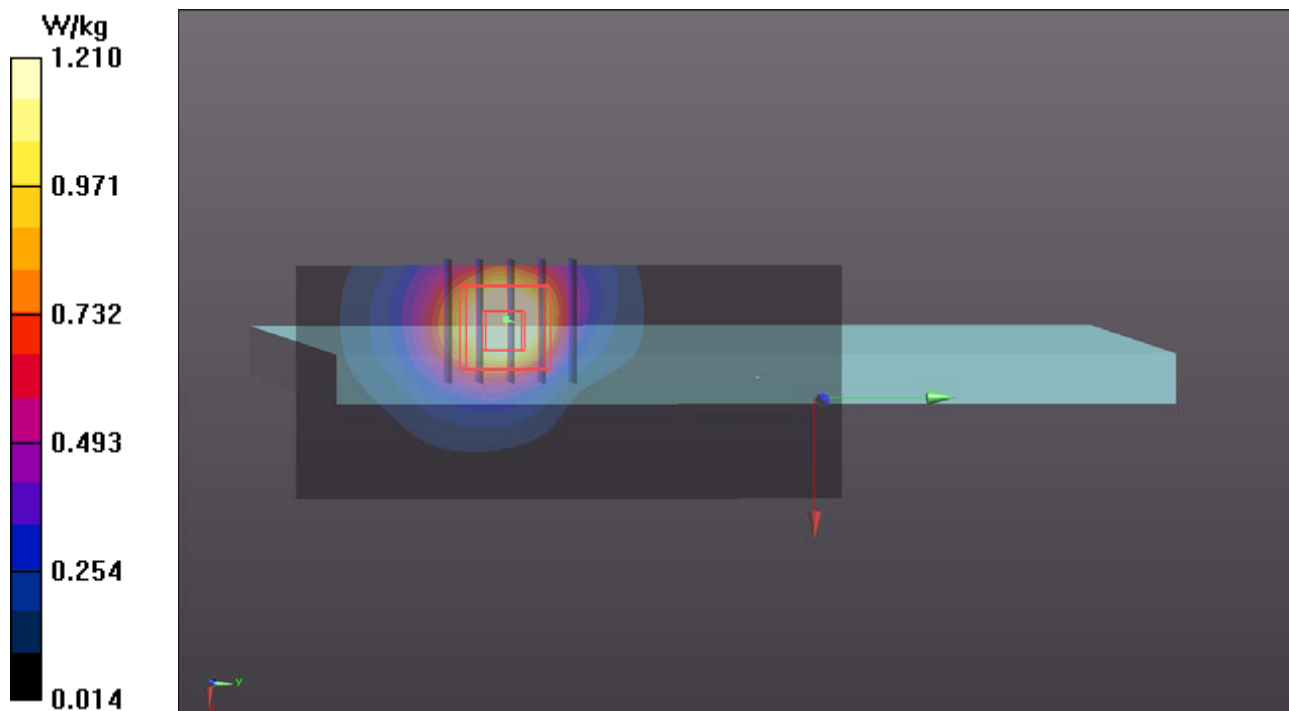
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.34 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.799 W/kg; SAR(10 g) = 0.427 W/kg

Maximum value of SAR (measured) = 1.21 W/kg



P34 LTE 12_QPSK10M_Rear Face_0mm_Ch23130_1RB_OS0_Reduction_W

DUT: 180629C15

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

Medium: B06T09N1_0803 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.936 \text{ S/m}$; $\epsilon_r = 54.757$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.842 W/kg

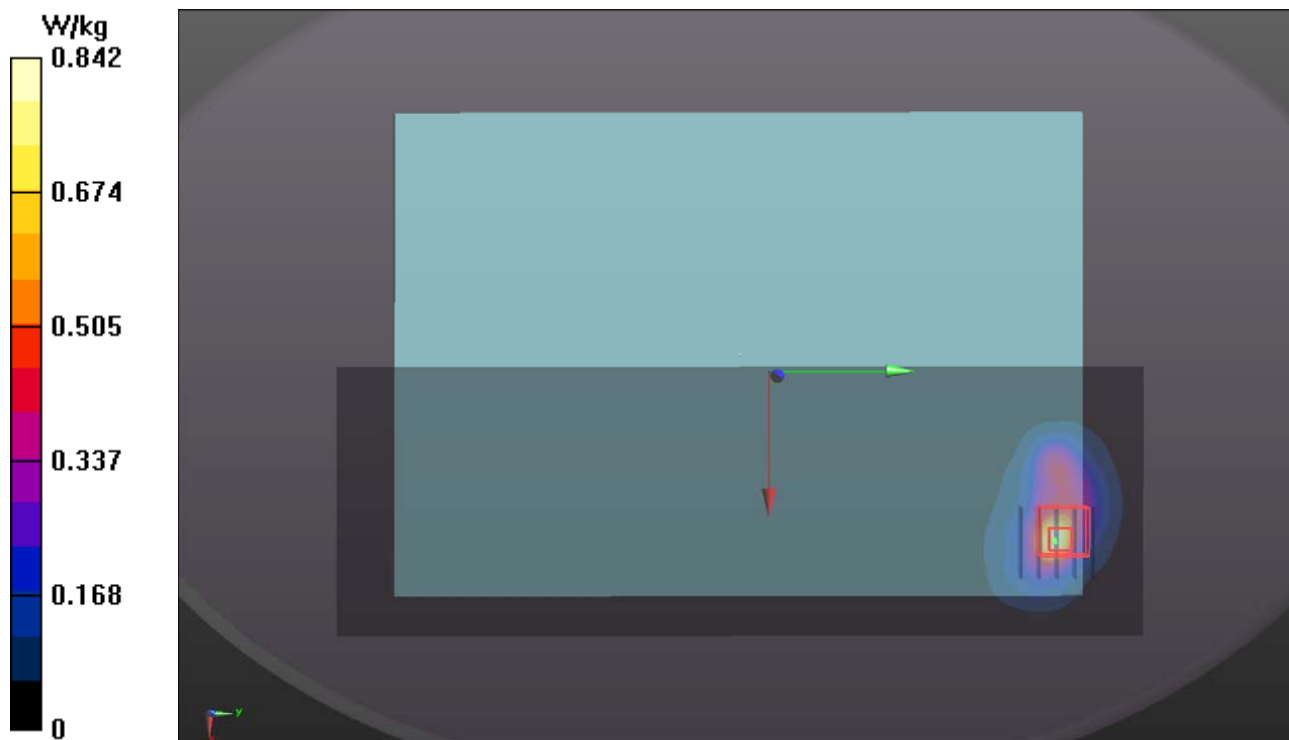
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.11 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.988 W/kg

SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 0.780 W/kg



P35 LTE 13_QPSK10M_Rear Face_0mm_Ch23230_1RB_OS0_Reduction_W

DUT: 180629C15

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

Medium: B06T09N1_0803 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.002 \text{ S/m}$; $\epsilon_r = 54.039$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.8 \text{ }^\circ\text{C}$; Liquid Temperature : $23.5 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

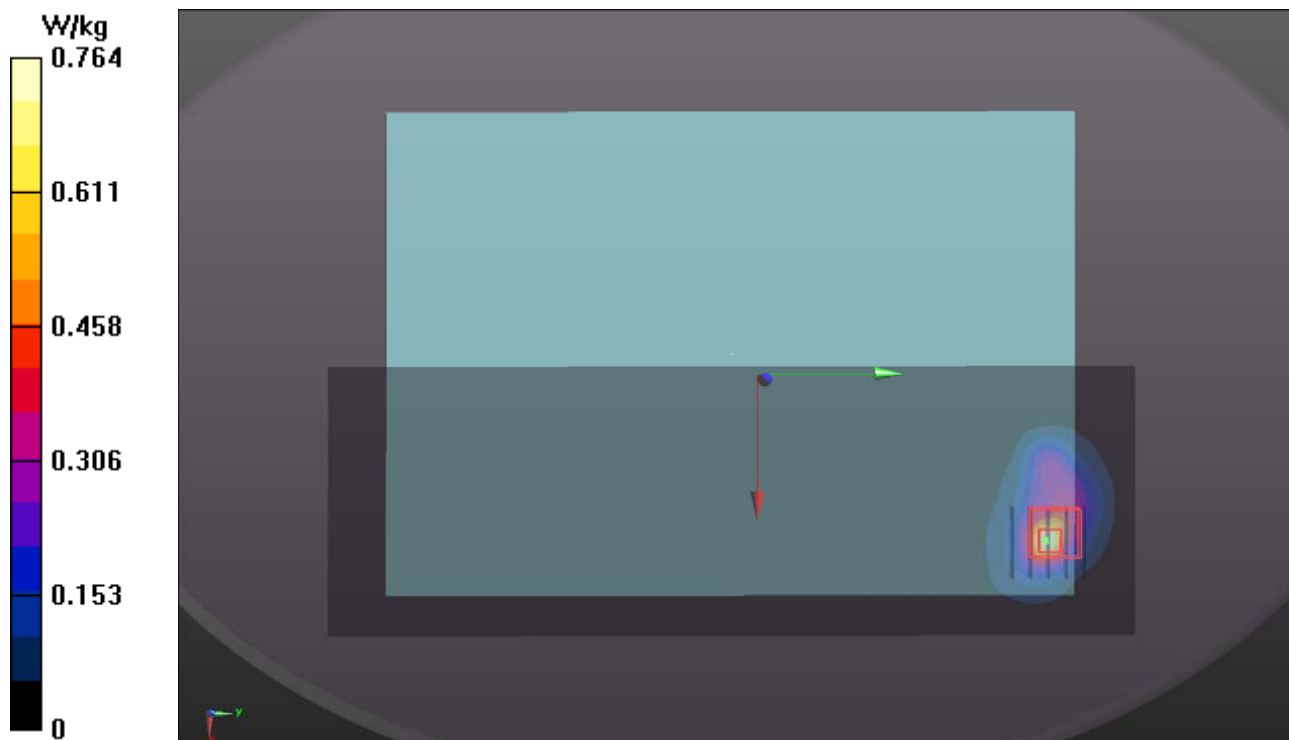
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.71 V/m ; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.867 W/kg

SAR(1 g) = 0.416 W/kg ; SAR(10 g) = 0.215 W/kg

Maximum value of SAR (measured) = 0.690 W/kg



P36 LTE 14_QPSK10M_Rear Face_0mm_Ch23330_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: B06T09N1_0803 Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 1.012 \text{ S/m}$; $\epsilon_r = 53.924$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.16, 10.16, 10.16); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.923 W/kg

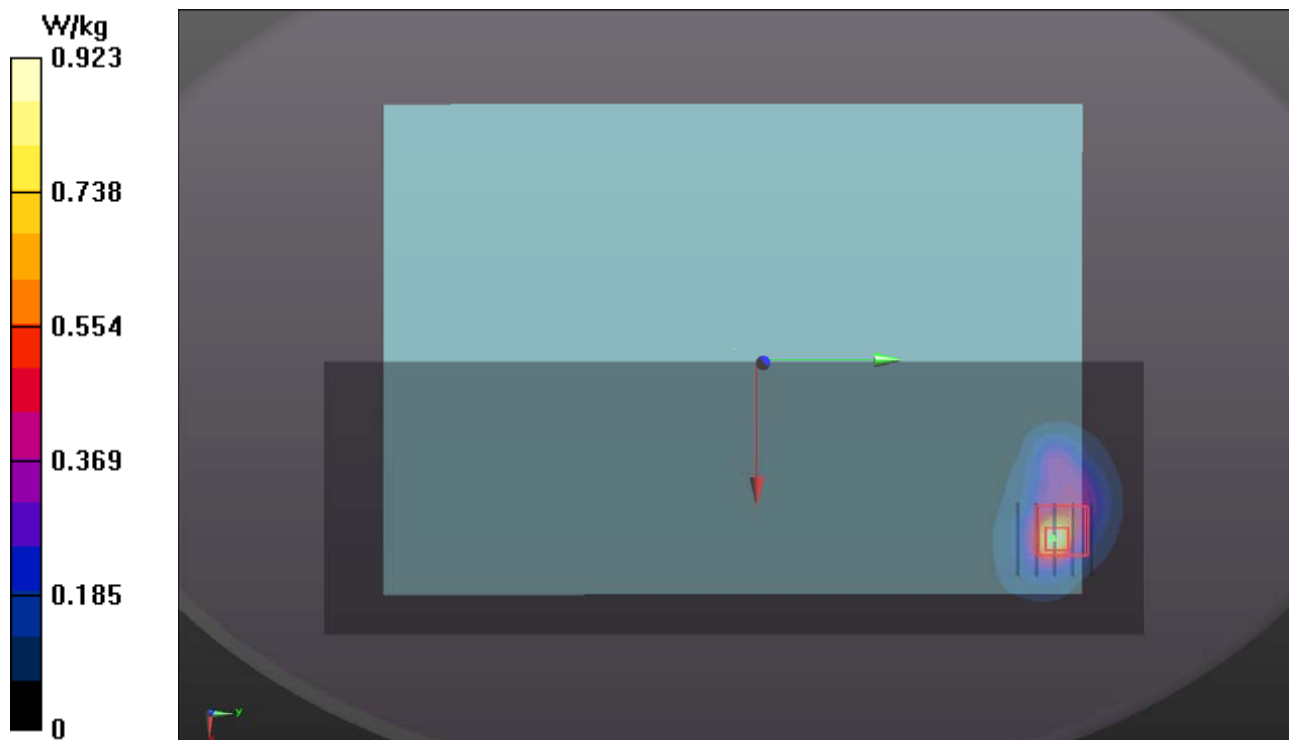
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.53 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.263 W/kg

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



P38 LTE 25_QPSK20M_Rear Face_0mm_Ch26590_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: B16T20N1_0803 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.576$ S/m; $\epsilon_r = 51.434$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.04, 8.04, 8.04); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

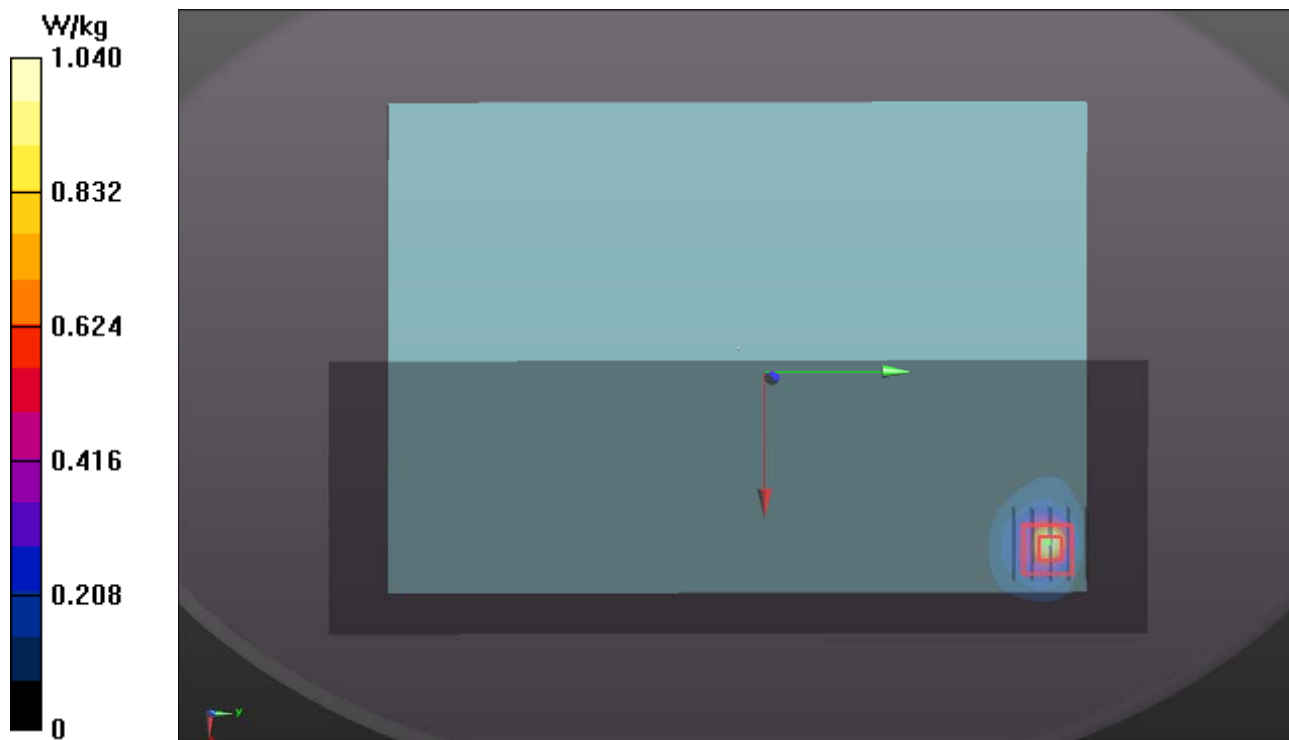
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.00 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.277 W/kg

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



P39 LTE 26_QPSK15M_Rear Face_0mm_Ch26865_1RB_OS0_Reduction_W

DUT: 180629C15

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

Medium: B07T10N1_0803 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.973$ S/m; $\epsilon_r = 57.763$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.95, 9.95, 9.95); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

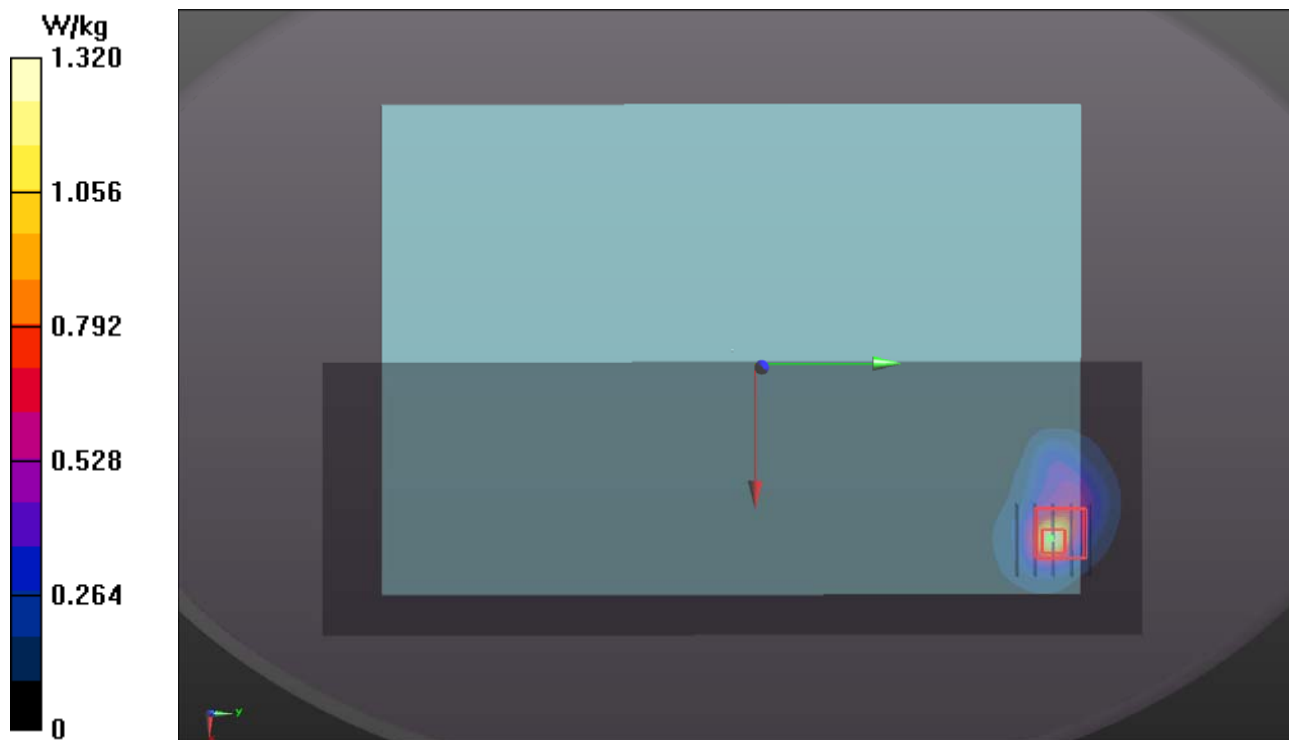
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 37.85 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.367 W/kg

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



P40 LTE 30_QPSK10M_Rear Face_0mm_Ch27710_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: B19T27N1_0803 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 50.979$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.89, 7.89, 7.89); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

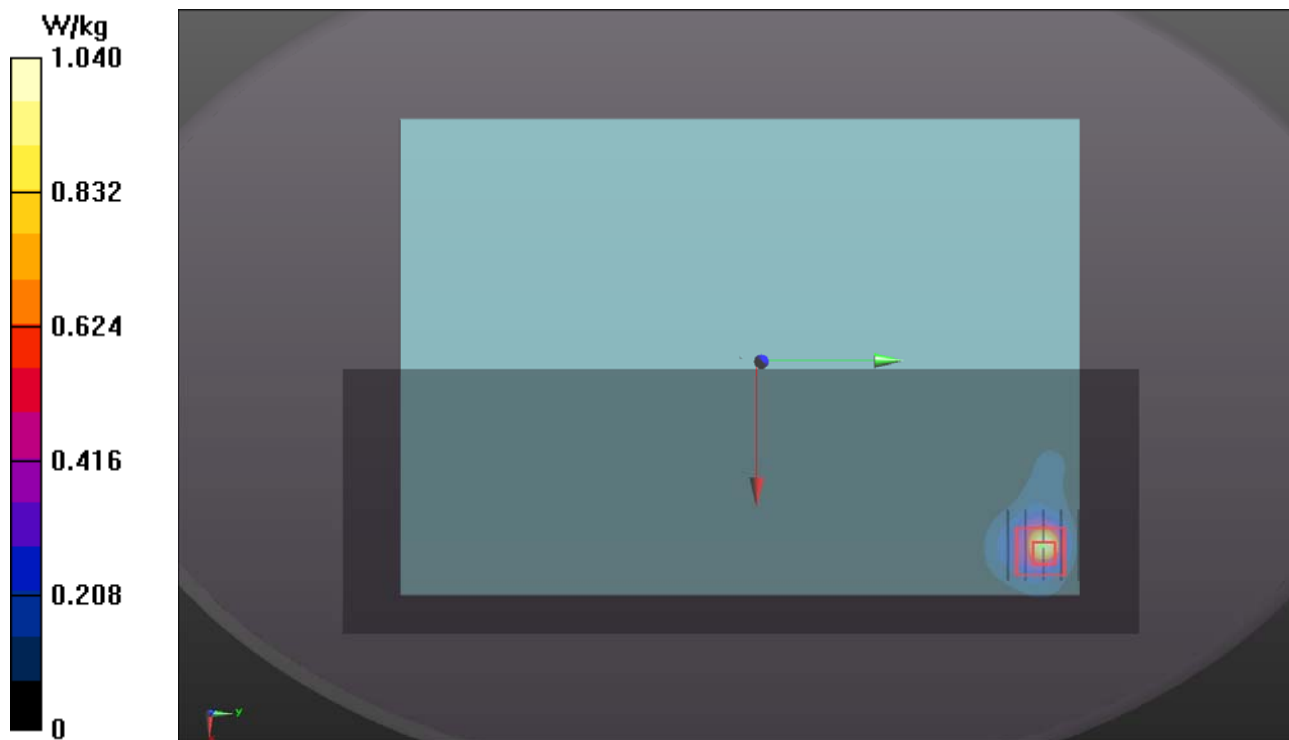
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.99 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.252 W/kg

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



P41 LTE 38_QPSK20M_Rear Face_0mm_Ch38000_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE TDD CF0; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_0809 Medium parameters used: $f = 2595$ MHz; $\sigma = 2.187$ S/m; $\epsilon_r = 50.932$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.44, 7.44, 7.44); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.528 W/kg

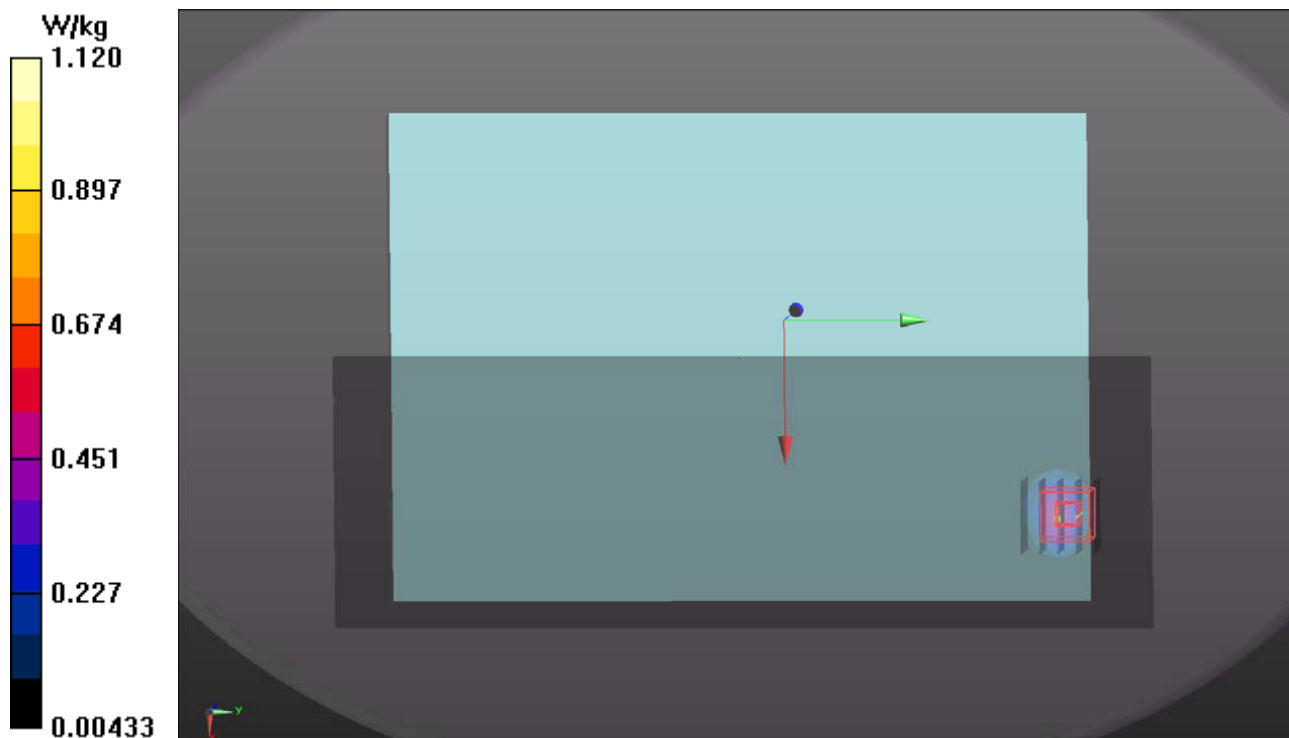
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.74 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.228 W/kg

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



P42 LTE 41_QPSK20M_Rear Face_0mm_Ch40620_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE TDD CF0; Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium: B19T27N1_0801 Medium parameters used: $f = 2593$ MHz; $\sigma = 2.161$ S/m; $\epsilon_r = 52.164$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.44, 7.44, 7.44) @ 2593 MHz; Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1043; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (101x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

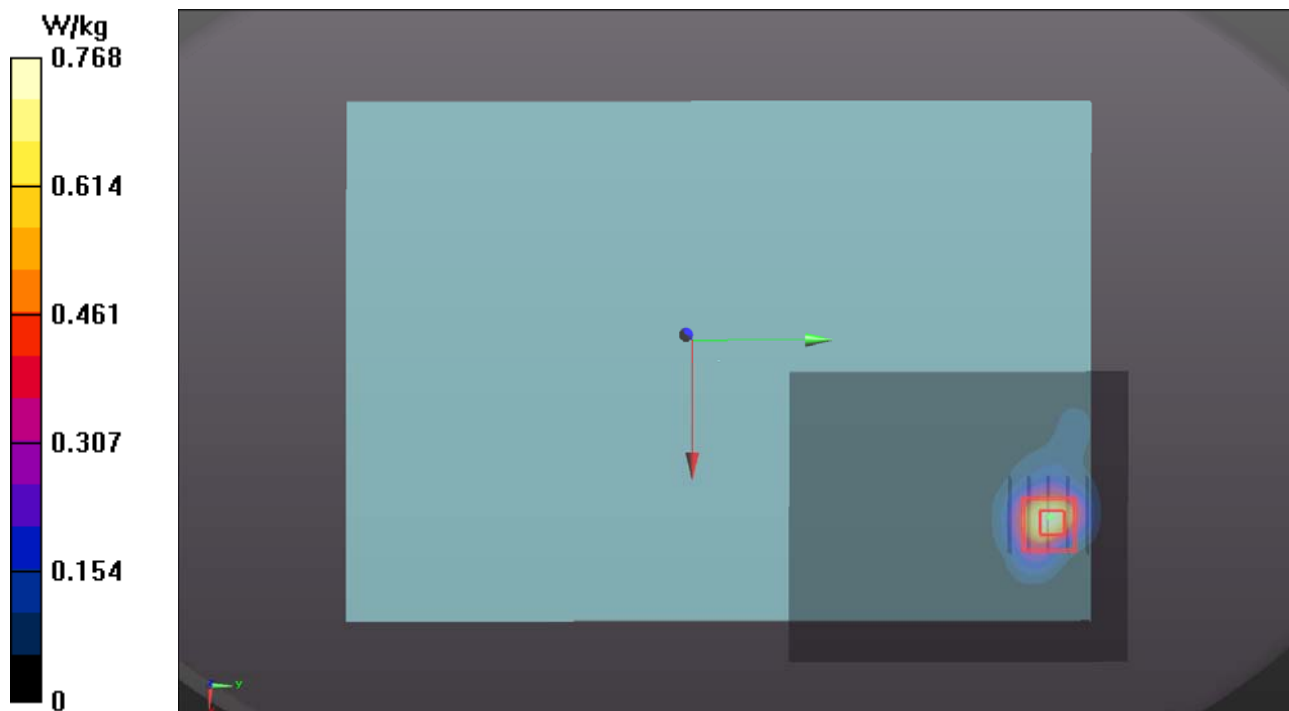
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.31 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.358 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



P44 LTE 66_QPSK20M_Rear Face_0mm_Ch132072_1RB_OS0_Reduction_W

DUT: 180629C15

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: B16T20N1_0803 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 51.942$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.45, 8.45, 8.45); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.542 W/kg

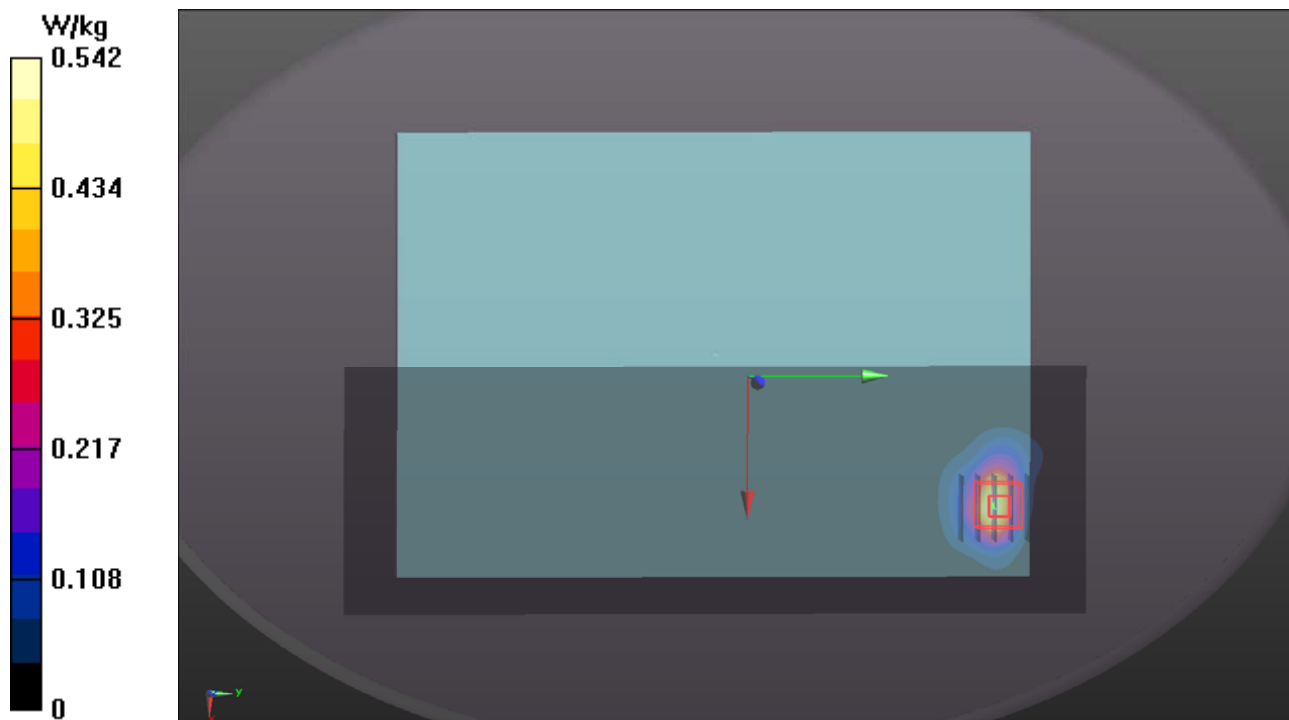
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.58 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.969 W/kg

SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.200 W/kg

Maximum value of SAR (measured) = 0.711 W/kg



P45 WLAN2.4G_802.11b_Rear Face_0mm_Ch6_Ant0

DUT: 180629C15

Communication System: WLAN_2.4G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: B19T27N1_0804 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.981$ S/m; $\epsilon_r = 52.551$; $\rho =$

1000 kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.78, 7.78, 7.78); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (141x141x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

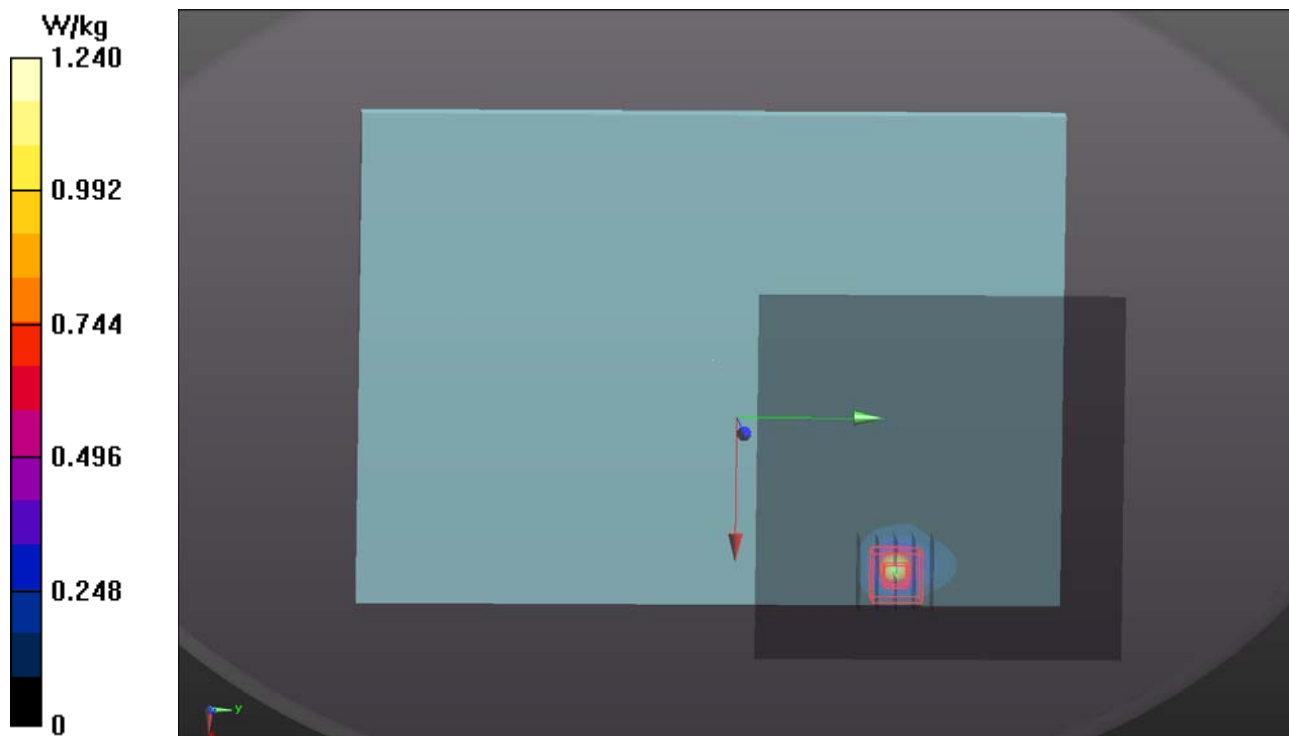
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.02 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.273 W/kg

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



P46 WLAN5G_802.11ac VHT80_Rear Face_0mm_Ch58_Ant0

DUT: 180629C15

Communication System: WLAN_5G; Frequency: 5290 MHz; Duty Cycle: 1:1.08

Medium: B34T60N3_0808 Medium parameters used: $f = 5290$ MHz; $\sigma = 5.475$ S/m; $\epsilon_r = 49.177$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.06, 5.06, 5.06); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (121x161x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

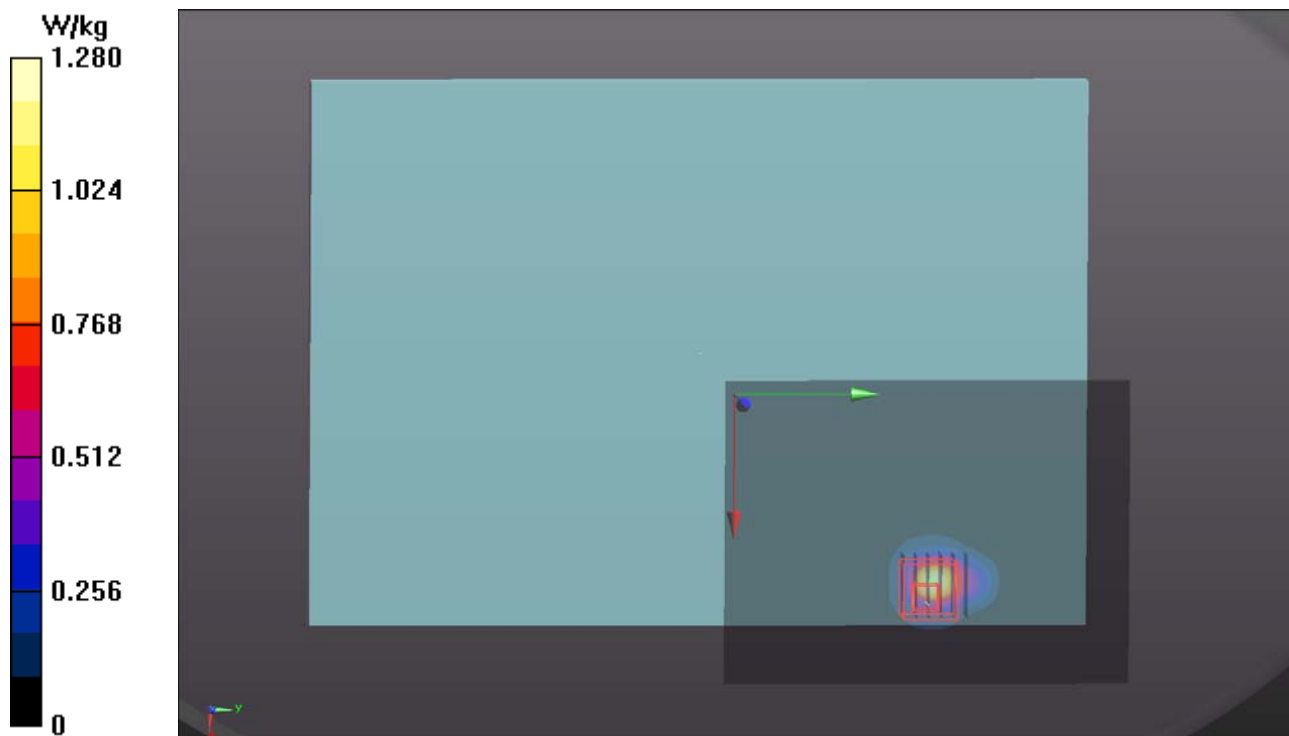
- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 15.03 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 0.689 W/kg; SAR(10 g) = 0.216 W/kg

Maximum value of SAR (measured) = 1.77 W/kg



P47 WLAN5G_802.11ac VHT80_Rear Face_0mm_Ch106_Ant0+1

DUT: 180629C15

Communication System: WLAN_5G; Frequency: 5530 MHz; Duty Cycle: 1:1.08

Medium: B34T60N3_0808 Medium parameters used: $f = 5530$ MHz; $\sigma = 5.758$ S/m; $\epsilon_r = 48.871$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

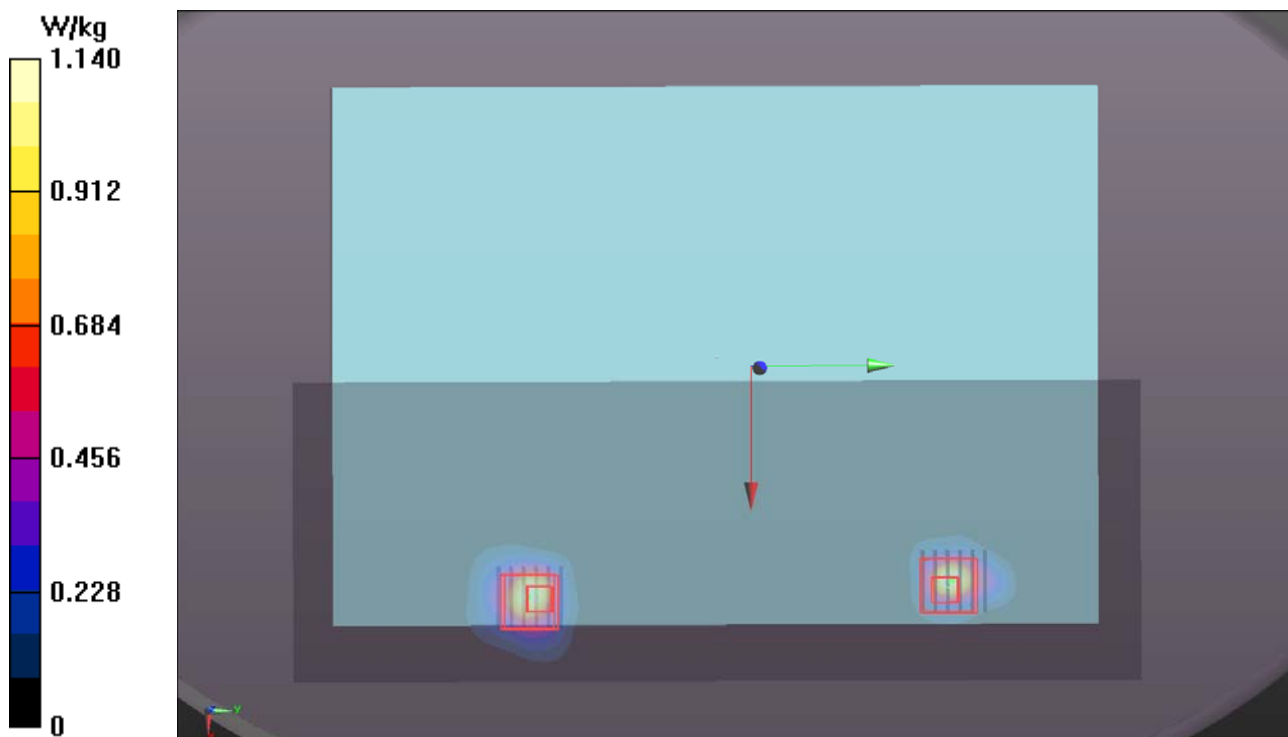
DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.35, 4.35, 4.35); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (121x341x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 12.82 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 3.45 W/kg
SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.227 W/kg
Maximum value of SAR (measured) = 1.82 W/kg

- **Zoom Scan (6x6x12)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 12.82 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.41 W/kg
SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.155 W/kg
Maximum value of SAR (measured) = 1.22 W/kg



P48 WLAN5G_802.11ac VHT80_Rear Face_0mm_Ch155_Ant0+1

DUT: 180629C15

Communication System: WLAN_5G; Frequency: 5775 MHz; Duty Cycle: 1:1.08

Medium: B34T60N3_0808 Medium parameters used: $f = 5775$ MHz; $\sigma = 6.086$ S/m; $\epsilon_r = 48.848$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.3 °C

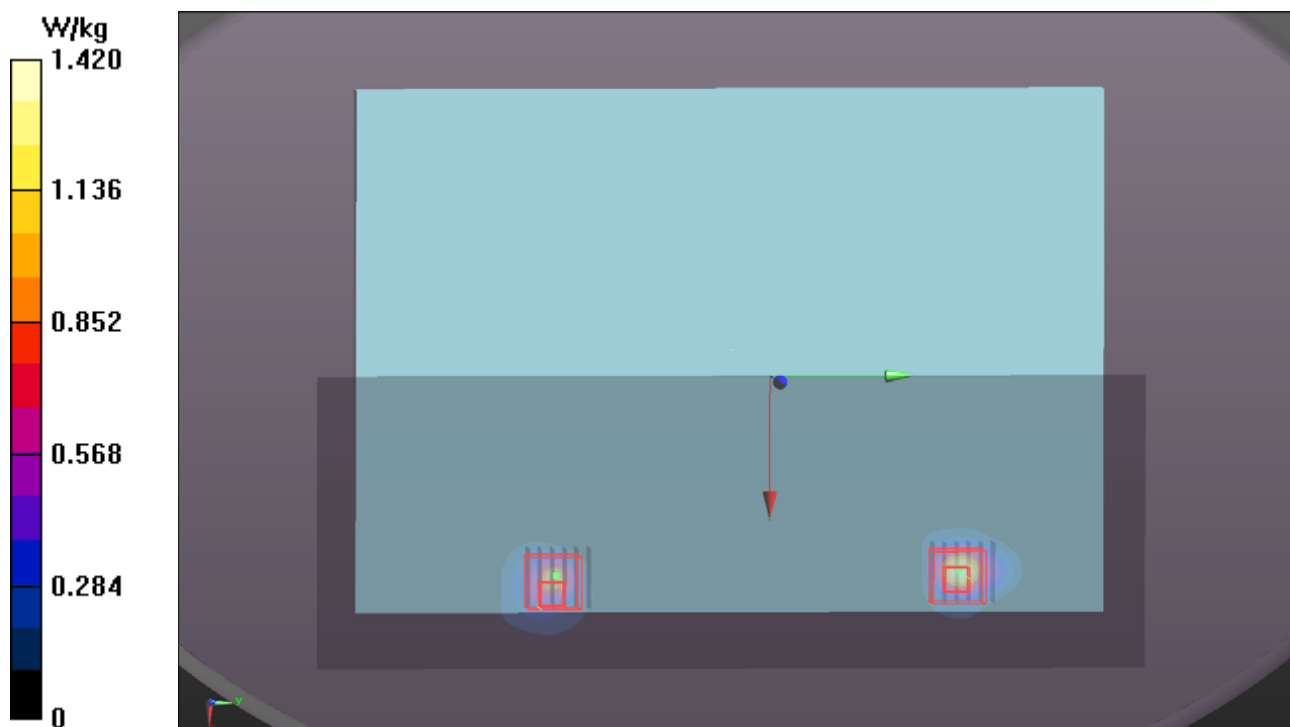
DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.52, 4.52, 4.52); Calibrated: 2018/02/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2018/03/05
- Phantom: ELI Phantom_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (121x341x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

- **Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 14.13 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.62 W/kg
SAR(1 g) = 0.700 W/kg; SAR(10 g) = 0.199 W/kg
Maximum value of SAR (measured) = 1.70 W/kg

- **Zoom Scan (6x6x12)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 14.13 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.24 W/kg
SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.145 W/kg
Maximum value of SAR (measured) = 1.54 W/kg



P49 BT_BR-EDR_Rear Face_0mm_Ch39_Ant1_Reduction_w_o

DUT: 180629C15

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.3

Medium: B19T27N1_0814 Medium parameters used: $f = 2441$ MHz; $\sigma = 2.014$ S/m; $\epsilon_r = 50.619$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.7, 7.7, 7.7); Calibrated: 2018/03/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom_1206; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

- **Area Scan (111x281x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00597 W/kg

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

Reference Value = 1.909 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.0680 W/kg

SAR(1 g) = 0.035 W/kg; SAR(10 g) = 0.00363 W/kg

Maximum value of SAR (measured) = 0.0218 W/kg

