

NR FDD Band n25 Head SAR- MAIN1(Ant A)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.39	-0.11	Left Cheek	0	1	53	1:1		0.107	1.291	0.138	A19
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.38	-0.01	Left Cheek	0	50	28	1:1		0.101	1.294	0.131	-
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.39	0.06	Left Tilt	0	1	53	1:1		0.034	1.291	0.044	-
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.38	0.18	Left Tilt	0	50	28	1:1		0.033	1.294	0.043	-
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.39	-0.15	Right Cheek	0	1	53	1:1		0.065	1.291	0.084	-
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.38	-0.18	Right Cheek	0	50	28	1:1		0.066	1.294	0.085	-
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.39	0.11	Right Tilt	0	1	53	1:1		0.050	1.291	0.065	-
1 905	381000	DFT-s OFDM QPSK	20	24.5	23.38	0.16	Right Tilt	0	50	28	1:1		0.049	1.294	0.063	-
1 905	381000	CP QPSK	20	23.0	21.79	-0.10	Left Cheek	1.5	1	1	1:1		0.067	1.321	0.089	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR FDD Band n25 Head SAR (RCV-On) - SUB2(Ant F)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1 905	381000	DFT-s OFDM QPSK	20	18	17.25	-0.07	Left Cheek	0	1	53	1:1		0.458	1.189	0.545	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.39	-0.05	Left Cheek	0	50	56	1:1		0.359	1.151	0.413	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.25	0.04	Left Tilt	0	1	53	1:1		0.496	1.189	0.590	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.39	-0.01	Left Tilt	0	50	56	1:1		0.561	1.151	0.646	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.25	-0.12	Right Cheek	0	1	53	1:1		0.662	1.189	0.787	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.39	-0.05	Right Cheek	0	50	56	1:1		0.678	1.151	0.780	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.25	-0.01	Right Tilt	0	1	53	1:1		0.748	1.189	0.889	-
1 860	372000	DFT-s OFDM QPSK	20	18	16.74	-0.13	Right Tilt	0	1	53	1:1		0.762	1.337	1.019	A20
1 882.5	376500	DFT-s OFDM QPSK	20	18	16.87	-0.04	Right Tilt	0	1	1	1:1		0.713	1.297	0.925	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.39	-0.04	Right Tilt	0	50	56	1:1		0.707	1.151	0.814	-
1 860	372000	DFT-s OFDM QPSK	20	18	16.64	-0.02	Right Tilt	0	50	56	1:1		0.738	1.368	1.010	-
1 882.5	376500	DFT-s OFDM QPSK	20	18	16.81	-0.07	Right Tilt	0	50	56	1:1		0.700	1.315	0.921	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.30	-0.05	Right Tilt	0	100	0	1:1		0.703	1.175	0.826	-
1 905	381000	CP QPSK	20	18	16.90	-0.04	Right Tilt	0	1	1	1:1		0.787	1.288	1.014	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR TDD Band n41 Head SAR (RCV-On) - SUB2(Ant F)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.35	-0.18	Left Cheek	0	1	1	1:1		0.219	1.161	0.254	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	13.77	0.16	Left Cheek	0	135	138	1:1		0.277	1.327	0.368	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.35	-0.11	Left Tilt	0	1	1	1:1		0.282	1.161	0.327	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	13.77	0.13	Left Tilt	0	135	138	1:1		0.303	1.327	0.402	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.35	-0.10	Right Cheek	0	1	1	1:1		0.429	1.161	0.498	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	13.77	-0.17	Right Cheek	0	135	138	1:1		0.563	1.327	0.747	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	13.43	-0.12	Right Cheek	0	270	0	1:1		0.546	1.435	0.784	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.35	0.02	Right Tilt	0	1	1	1:1		0.503	1.161	0.584	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	13.77	-0.11	Right Tilt	0	135	138	1:1		0.628	1.327	0.833	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	13.43	0.05	Right Tilt	0	270	0	1:1		0.582	1.435	0.835	A21
2 592.99	518598	CP OFDM QPSK	100	15	14.30	-0.07	Right Tilt	0	1	1	1:1		0.482	1.175	0.566	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

NR TDD Band n41 SRS Head SAR (RCV-On)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	(W/kg)	(W/kg)						
SRS #1 MAIN2(Ant B)																
2 592.99	518598	DFT-s OFDM QPSK	100	11.00	10.31	0	Left Cheek	0	1	136	1:1		0	1.172	0.000	-
2 592.99	518598	DFT-s OFDM QPSK	100	11.00	10.31	0	Left Tilt	0	1	136	1:1		0	1.172	0.000	-
2 592.99	518598	DFT-s OFDM QPSK	100	11.00	10.31	0	Right Cheek	0	1	136	1:1		0	1.172	0.000	-
2 592.99	518598	DFT-s OFDM QPSK	100	11.00	10.31	0.02	Right Tilt	0	1	136	1:1		0.000955	1.172	0.001	-
SRS #2 SUB1(Ant E)																
2 592.99	518598	DFT-s OFDM QPSK	100	13.00	11.52	0.12	Left Cheek	0	1	136	1:1		0.291	1.406	0.409	-
2 592.99	518598	DFT-s OFDM QPSK	100	13.00	11.52	0.16	Left Tilt	0	1	136	1:1		0.304	1.406	0.427	A22
2 592.99	518598	DFT-s OFDM QPSK	100	13.00	11.52	-0.09	Right Cheek	0	1	136	1:1		0.219	1.406	0.308	-
2 592.99	518598	DFT-s OFDM QPSK	100	13.00	11.52	0.04	Right Tilt	0	1	136	1:1		0.219	1.406	0.308	-
SRS #3 MAIN4(Ant D)																
2 592.99	518598	DFT-s OFDM QPSK	100	8.50	6.94	0	Left Cheek	0	1	136	1:1		0	1.432	0.000	-
2 592.99	518598	DFT-s OFDM QPSK	100	8.50	6.94	0	Left Tilt	0	1	136	1:1		0	1.432	0.000	-
2 592.99	518598	DFT-s OFDM QPSK	100	8.50	6.94	0	Right Cheek	0	1	136	1:1		0	1.432	0.000	-
2 592.99	518598	DFT-s OFDM QPSK	100	8.50	6.94	0	Right Tilt	0	1	136	1:1		0	1.432	0.000	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									



NR FDD Band n66 Head SAR - MAIN1(Ant A)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.82	-0.13	Left Cheek	0	1	53	1:1		0.108	1.042	0.113	-
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.79	-0.17	Left Cheek	0	50	28	1:1		0.110	1.050	0.116	A23
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.82	0.14	Left Tilt	0	1	53	1:1		0.042	1.042	0.044	-
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.79	0.00	Left Tilt	0	50	28	1:1		0.038	1.050	0.040	-
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.82	-0.11	Right Cheek	0	1	53	1:1		0.070	1.042	0.073	-
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.79	0.13	Right Cheek	0	50	28	1:1		0.072	1.050	0.076	-
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.82	-0.03	Right Tilt	0	1	53	1:1		0.049	1.042	0.051	-
1 745	349000	DFT-s OFDM QPSK	20	24.0	23.79	0.13	Right Tilt	0	50	28	1:1		0.051	1.050	0.054	-
1 745	349000	CP QPSK	20	22.5	22.23	-0.14	Left Cheek	1.5	1	1	1:1		0.084	1.064	0.089	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR FDD Band n66 Head SAR (RCV-On) – SUB2(Ant F)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.51	-0.08	Left Cheek	0	1	0	1:1		0.365	1.256	0.458	-
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.62	-0.07	Left Cheek	0	50	0	1:1		0.340	1.225	0.417	-
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.51	0.04	Left Tilt	0	1	0	1:1		0.418	1.256	0.525	-
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.62	0.05	Left Tilt	0	50	0	1:1		0.433	1.225	0.530	-
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.51	-0.04	Right Cheek	0	1	0	1:1		0.542	1.256	0.681	-
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.62	-0.12	Right Cheek	0	50	0	1:1		0.559	1.225	0.685	-
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.51	-0.00	Right Tilt	0	1	0	1:1		0.762	1.256	0.957	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.38	0.03	Right Tilt	0	1	1	1:1		0.772	1.294	0.999	-
1 770	354000	DFT-s OFDM QPSK	20	18.5	17.5	0.01	Right Tilt	0	1	53	1:1		0.814	1.259	1.025	A24
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.53	-0.08	Right Tilt	0	50	0	1:1		0.793	1.250	0.991	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.62	0.00	Right Tilt	0	50	0	1:1		0.810	1.225	0.992	-
1 770	354000	DFT-s OFDM QPSK	20	18.5	17.61	-0.01	Right Tilt	0	50	0	1:1		0.833	1.227	1.022	-
1 720	344000	DFT-s OFDM QPSK	20	18.5	17.39	-0.12	Right Tilt	0	100	0	1:1		0.722	1.291	0.932	-
1 720	344000	CP QPSK	20	18.5	17.23	0.02	Right Tilt	0	1	1	1:1		0.725	1.340	0.972	-
1 770	354000	DFT-s OFDM QPSK	20	18.5	17.61	0.00	Right Tilt	0	50	0	1:1		0.823	1.227	1.010	*
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

Note: * Data entry indicate Variability measurement.

NR TDD Band n77 Head SAR (RCV-ON) - SUB2(Ant F)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.40	-0.16	Left Cheek	0	1	1	1:1		0.122	1.288	0.157	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.23	0.13	Left Cheek	0	135	138	1:1		0.185	1.340	0.248	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.40	0.15	Left Tilt	0	1	1	1:1		0.146	1.288	0.188	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.23	0.15	Left Tilt	0	135	138	1:1		0.210	1.340	0.281	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.40	-0.11	Right Cheek	0	1	1	1:1		0.283	1.288	0.365	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.23	-0.14	Right Cheek	0	135	138	1:1		0.332	1.340	0.445	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.40	0.13	Right Tilt	0	1	1	1:1		0.299	1.288	0.385	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	13.23	0.14	Right Tilt	0	135	138	1:1		0.344	1.340	0.461	-
3 930	662000	DFT-s OFDM QPSK	100	14.5	12.92	-0.17	Right Tilt	0	135	138	1:1		0.191	1.439	0.275	-
3 750	650000	DFT-s OFDM QPSK	100	14.5	12.68	-0.17	Right Tilt	0	270	0	1:1		0.349	1.521	0.531	A25
3 750	650000	CP OFDM QPSK	100	14.5	12.68	-0.04	Right Tilt	0	1	1	1:1		0.325	1.521	0.494	-
3500.01	633334	DFT-s OFDM QPSK	100	14.5	13.23	-0.16	Right Tilt	0	1	1	1:1		0.310	1.340	0.415	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR TDD Band n77 SRS Head SAR (RCV-On)

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)						(W/kg)		
SRS #1 MAIN3(Ant C)																
3 930.0	662000	DFT-s OFDM QPSK	100	12	11.78	-0.12	Left Cheek	0	1	136	1:1		0.082	1.052	0.086	-
3 930.0	662000	DFT-s OFDM QPSK	100	12	11.78	0.10	Left Tilt	0	1	136	1:1		0.088	1.052	0.093	-
3 930.0	662000	DFT-s OFDM QPSK	100	12	11.78	0.17	Right Cheek	0	1	136	1:1		0.188	1.052	0.198	-
3 930.0	662000	DFT-s OFDM QPSK	100	12	11.78	-0.10	Right Tilt	0	1	136	1:1		0.182	1.052	0.191	-
3 500.01	633334	DFT-s OFDM QPSK	100	12	11.96	0.00	Right Cheek	0	1	136	1:1		0.000	1.009	0.000	-
SRS #2 SUB5(Ant I)																
3 750.0	650000	DFT-s OFDM QPSK	100	13.3	11.49	-0.14	Left Cheek	0	1	136	1:1		0.178	1.517	0.270	-
3 750.0	650000	DFT-s OFDM QPSK	100	13.3	11.49	0.15	Left Tilt	0	1	136	1:1		0.018	1.517	0.027	-
3 750.0	650000	DFT-s OFDM QPSK	100	13.3	11.49	-0.18	Right Cheek	0	1	136	1:1		0.334	1.517	0.507	A26
3 750.0	650000	DFT-s OFDM QPSK	100	13.3	11.49	0.05	Right Cheek	0	1	136	1:1		0.027	1.517	0.041	-
3 500.01	633334	DFT-s OFDM QPSK	100	13.3	12.07	0.15	Right Cheek	0	1	136	1:1		0.168	1.327	0.223	-
SRS #3 MAIN4(Ant D)																
3 750.0	650000	DFT-s OFDM QPSK	100	12.5	10.91	0	Left Cheek	0	1	136	1:1		0	1.442	0.000	-
3 750.0	650000	DFT-s OFDM QPSK	100	12.5	10.91	0	Left Tilt	0	1	136	1:1		0	1.442	0.000	-
3 750.0	650000	DFT-s OFDM QPSK	100	12.5	10.91	0	Right Cheek	0	1	136	1:1		0	1.442	0.000	-
3 750.0	650000	DFT-s OFDM QPSK	100	12.5	10.91	0	Right Tilt	0	1	136	1:1		0	1.442	0.000	-
3 500.01	633334	DFT-s OFDM QPSK	100	12.5	10.93	0	Left Cheek	0	1	136	1:1		0	1.435	0.000	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

DTS Head SAR – RCV ON

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.															
2 462	11	802.11b	20	1	14	13.70	-0.01	Left Cheek	WIFI1	98.8	0.223	0.101	1.072	1.012	0.110	-
2 462	11	802.11b	20	1	14	13.70	0.16	Left Tilt	WIFI1	98.8	0.192	0.121	1.072	1.012	0.131	-
2 462	11	802.11b	20	1	14	13.70	0.11	Right Cheek	WIFI1	98.8	0.884	0.360	1.072	1.012	0.391	-
2 462	11	802.11b	20	1	14	13.70	0.18	Right Tilt	WIFI1	98.8	0.786	0.317	1.072	1.012	0.344	-
2 462	11	802.11b	20	1	14	13.86	0.10	Left Cheek	WIFI2	98.8	0.62	0.477	1.033	1.012	0.499	-
2 462	11	802.11b	20	1	14	13.86	0.18	Left Tilt	WIFI2	98.8	0.147	0.067	1.033	1.012	0.070	-
2 462	11	802.11b	20	1	14	13.86	-0.13	Right Cheek	WIFI2	98.8	0.49	0.313	1.033	1.012	0.327	-
2 462	11	802.11b	20	1	14	13.86	-0.10	Right Tilt	WIFI2	98.8	0.0622	0.030	1.033	1.012	0.031	-
2 462	11	802.11b	20	1	17	16.79	-0.18	Left Cheek	MIMO	98.8	0.668	0.500	1.072	1.012	0.542	A27
2 462	11	802.11b	20	1	17	16.79	0.10	Left Tilt	MIMO	98.8	0.191	0.113	1.072	1.012	0.123	-
2 462	11	802.11b	20	1	17	16.79	-0.10	Right Cheek	MIMO	98.8	0.594	0.277	1.072	1.012	0.301	-
2 462	11	802.11b	20	1	17	16.79	0.12	Right Tilt	MIMO	98.8	0.348	0.196	1.072	1.012	0.213	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Head 1.6 W/kg Averaged over 1 gram						

- For the SAR measurement results of MIMO Ant Mode(802.11b), higher power scaling factor among each SISO ANT was applied.

NII Head SAR – RCV-ON																
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(Mbps)	(dBm)	(dBm)	(dB)				(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 290	58	802.11ac	80	MCS0	13	12.49	-0.19	Left Cheek	WIFI1	92.1	0.109	0.035	1.125	1.086	0.043	-
5 290	58	802.11ac	80	MCS0	13	12.49	0.10	Left Tilt	WIFI1	92.1	0.206	0.036	1.125	1.086	0.044	-
5 290	58	802.11ac	80	MCS0	13	12.49	-0.16	Right Check	WIFI1	92.1	0.767	0.214	1.125	1.086	0.261	-
5 290	58	802.11ac	80	MCS0	13	12.49	0.16	Right Tilt	WIFI1	92.1	0.238	0.070	1.125	1.086	0.086	-
5 690	138	802.11ac	80	MCS0	13	12.99	0.00	Left Cheek	WIFI1	92.1	0.000	0.000	1.002	1.086	0.000	-
5 690	138	802.11ac	80	MCS0	13	12.99	0.10	Left Tilt	WIFI1	92.1	0.0677	0.014	1.002	1.086	0.015	-
5 690	138	802.11ac	80	MCS0	13	12.99	-0.01	Right Check	WIFI1	92.1	1.74	0.191	1.002	1.086	0.208	-
5 690	138	802.11ac	80	MCS0	13	12.99	0.10	Right Tilt	WIFI1	92.1	0.441	0.120	1.002	1.086	0.131	-
5 775	155	802.11ac	80	MCS0	13	12.58	0.10	Left Cheek	WIFI1	92.1	0.109	0.037	1.102	1.086	0.044	-
5 775	155	802.11ac	80	MCS0	13	12.58	-0.10	Left Tilt	WIFI1	92.1	0.142	0.032	1.102	1.086	0.038	-
5 775	155	802.11ac	80	MCS0	13	12.58	0.14	Right Check	WIFI1	92.1	0.705	0.306	1.102	1.086	0.366	A28
5 775	155	802.11ac	80	MCS0	13	12.58	-0.19	Right Tilt	WIFI1	92.1	0.263	0.090	1.102	1.086	0.108	-
5 855	171	802.11ac	80	MCS0	13	12.59	0.09	Left Cheek	WIFI1	92.1	0.108	0.035	1.099	1.086	0.042	-
5 855	171	802.11ac	80	MCS0	13	12.59	0.19	Left Tilt	WIFI1	92.1	0.205	0.038	1.099	1.086	0.045	-
5 855	171	802.11ac	80	MCS0	13	12.59	-0.16	Right Check	WIFI1	92.1	0.943	0.288	1.099	1.086	0.344	-
5 855	171	802.11ac	80	MCS0	13	12.59	0.01	Right Tilt	WIFI1	92.1	0.304	0.089	1.099	1.086	0.106	-
5 290	58	802.11ac	80	MCS0	13	12.17	-0.18	Left Cheek	WIFI2	92.1	0.103	0.023	1.211	1.086	0.030	-
5 290	58	802.11ac	80	MCS0	13	12.17	0.11	Left Tilt	WIFI2	92.1	0.155	0.025	1.211	1.086	0.033	-
5 290	58	802.11ac	80	MCS0	13	12.17	-0.10	Right Check	WIFI2	92.1	0.0519	0.021	1.211	1.086	0.028	-
5 290	58	802.11ac	80	MCS0	13	12.17	0.17	Right Tilt	WIFI2	92.1	0.121	0.014	1.211	1.086	0.018	-
5 610	122	802.11ac	80	MCS0	13	12.69	-0.16	Left Cheek	WIFI2	92.1	0.0773	0.023	1.074	1.086	0.027	-
5 610	122	802.11ac	80	MCS0	13	12.69	0.13	Left Tilt	WIFI2	92.1	0.0919	0.027	1.074	1.086	0.031	-
5 610	122	802.11ac	80	MCS0	13	12.69	-0.14	Right Check	WIFI2	92.1	0.315	0.059	1.074	1.086	0.069	-
5 610	122	802.11ac	80	MCS0	13	12.69	0.10	Right Tilt	WIFI2	92.1	0.104	0.051	1.074	1.086	0.060	-
5 775	155	802.11ac	80	MCS0	13	12.85	0.17	Left Cheek	WIFI2	92.1	0.143	0.036	1.035	1.086	0.040	-
5 775	155	802.11ac	80	MCS0	13	12.85	0.07	Left Tilt	WIFI2	92.1	0.122	0.028	1.035	1.086	0.031	-
5 775	155	802.11ac	80	MCS0	13	12.85	-0.15	Right Check	WIFI2	92.1	0.171	0.034	1.035	1.086	0.038	-
5 775	155	802.11ac	80	MCS0	13	12.85	0.14	Right Tilt	WIFI2	92.1	0.129	0.029	1.035	1.086	0.033	-
5 855	171	802.11ac	80	MCS0	13	12.54	-0.15	Left Cheek	WIFI2	92.1	0.141	0.030	1.112	1.086	0.036	-
5 855	171	802.11ac	80	MCS0	13	12.54	0.16	Left Tilt	WIFI2	92.1	0.101	0.022	1.112	1.086	0.027	-
5 855	171	802.11ac	80	MCS0	13	12.54	0.11	Right Check	WIFI2	92.1	0.104	0.020	1.112	1.086	0.024	-
5 855	171	802.11ac	80	MCS0	13	12.54	-0.11	Right Tilt	WIFI2	92.1	0.0831	0.021	1.112	1.086	0.025	-
5 290	58	802.11ac	80	MCS0	16	15.32	-0.10	Left Cheek	MIMO	85.7	0.252	0.059	1.189	1.167	0.082	-
5 290	58	802.11ac	80	MCS0	16	15.32	-0.12	Left Tilt	MIMO	85.7	0.241	0.085	1.189	1.167	0.118	-
5 290	58	802.11ac	80	MCS0	16	15.32	-0.11	Right Check	MIMO	85.7	0.548	0.205	1.189	1.167	0.284	-
5 290	58	802.11ac	80	MCS0	16	15.32	0.11	Right Tilt	MIMO	85.7	0.319	0.124	1.189	1.167	0.172	-
5 610	122	802.11ac	80	MCS0	16	15.66	-0.15	Left Cheek	MIMO	85.7	0.0833	0.037	1.104	1.167	0.048	-
5 610	122	802.11ac	80	MCS0	16	15.66	-0.13	Left Tilt	MIMO	85.7	0.123	0.049	1.104	1.167	0.063	-
5 610	122	802.11ac	80	MCS0	16	15.66	0.09	Right Check	MIMO	85.7	0.867	0.186	1.104	1.167	0.240	-
5 610	122	802.11ac	80	MCS0	16	15.66	-0.15	Right Tilt	MIMO	85.7	0.383	0.127	1.104	1.167	0.164	-
5 775	155	802.11ac	80	MCS0	16	15.77	-0.12	Left Cheek	MIMO	85.7	0.119	0.022	1.167	1.167	0.030	-
5 775	155	802.11ac	80	MCS0	16	15.77	0.15	Left Tilt	MIMO	85.7	0.101	0.031	1.167	1.167	0.042	-
5 775	155	802.11ac	80	MCS0	16	15.77	0.01	Right Check	MIMO	85.7	0.633	0.218	1.167	1.167	0.297	-
5 775	155	802.11ac	80	MCS0	16	15.77	0.14	Right Tilt	MIMO	85.7	0.389	0.088	1.167	1.167	0.120	-
5 855	171	802.11ac	80	MCS0	16	15.54	-0.10	Left Cheek	MIMO	85.7	0.107	0.026	1.130	1.167	0.034	-
5 855	171	802.11ac	80	MCS0	16	15.54	-0.10	Left Tilt	MIMO	85.7	0.0945	0.026	1.130	1.167	0.034	-
5 855	171	802.11ac	80	MCS0	16	15.54	-0.16	Right Check	MIMO	85.7	0.439	0.195	1.130	1.167	0.257	-
5 855	171	802.11ac	80	MCS0	16	15.54	0.12	Right Tilt	MIMO	85.7	0.254	0.070	1.130	1.167	0.092	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

- For the SAR measurement results of MIMO Ant Mode(802.11ac 80MHz BW), higher power scaling factor among each SISO ANT was applied.



DSS Head SAR – RCV ON

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dBm)	(dBm)	(dB)			(W/kg)		(Duty)	(W/kg)	
2 480	78	Bluetooth DH5	13.5	11.65	-0.17	Left Cheek	Ant.1	0.024	1.531	1.010	0.037	-
2 480	78	Bluetooth DH5	13.5	11.65	0.16	Left Tilt	Ant.1	0.032	1.531	1.010	0.049	-
2 480	78	Bluetooth DH5	13.5	11.65	-0.16	Right Cheek	Ant.1	0.144	1.531	1.010	0.223	A29
2 480	78	Bluetooth DH5	13.5	11.65	-0.11	Right Tilt	Ant.1	0.103	1.531	1.010	0.159	-
2 480	78	Bluetooth DH5	13.5	13.25	-0.12	Left Cheek	Ant.2	0.207	1.059	1.010	0.221	-
2 480	78	Bluetooth DH5	13.5	13.25	0.14	Left Tilt	Ant.2	0.024	1.059	1.010	0.026	-
2 480	78	Bluetooth DH5	13.5	13.25	0.10	Right Cheek	Ant.2	0.105	1.059	1.010	0.112	-
2 480	78	Bluetooth DH5	13.5	13.25	0.18	Right Tilt	Ant.2	0.019	1.059	1.010	0.020	-
2 402	0	Bluetooth DH5	15.0	14.02	0.10	Left Cheek	Dual Tx	0.066	1.334	1.010	0.089	-
2 402	0	Bluetooth DH5	15.0	14.02	0.00	Left Tilt	Dual Tx	0.018	1.334	1.010	0.024	-
2 402	0	Bluetooth DH5	15.0	14.02	-0.15	Right Cheek	Dual Tx	0.029	1.334	1.010	0.039	-
2 402	0	Bluetooth DH5	15.0	14.02	0.19	Right Tilt	Dual Tx	0.005	1.334	1.010	0.007	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram						

13.2 Body / Hotspot SAR Measurement Results

GSM 850 Body / Hotspot SAR- MAIN1(Ant A)													
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GPRS 3Tx	30	29.4	-0.10	Rear	1:2.77	10		0.275	1.148	0.316	B1
836.6	190	GPRS 3TX	30	29.4	-0.14	Front	1:2.77	10		0.174	1.148	0.200	-
836.6	190	GPRS 3TX	30	29.4	0.04	Left	1:2.77	10		0.070	1.148	0.080	-
836.6	190	GPRS 3TX	30	29.4	0.09	Right	1:2.77	10		0.115	1.148	0.132	-
836.6	190	GPRS 3TX	30	29.4	0.16	Bottom	1:2.77	10		0.078	1.148	0.090	-
836.6	190	GSM Voice	34	32.67	-0.19	Rear	1:8.3	10		0.075	1.358	0.102	-
836.6	190	GSM Voice	34	32.67	-0.19	Front	1:8.3	10		0.121	1.358	0.164	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

GSM 850 Body / Hotspot SAR- SUB1(Ant E)													
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GPRS 3Tx	29.5	28.95	-0.15	Rear	1:2.77	10		0.662	1.135	0.751	-
848.8	251	GPRS 3Tx	29.5	28.94	-0.17	Rear	1:2.77	10		0.697	1.138	0.793	B2
824.2	128	GPRS 3Tx	29.5	28.94	0.05	Rear	1:2.77	10		0.606	1.138	0.696	-
836.6	190	GPRS 3TX	29.5	28.95	0.17	Front	1:2.77	10		0.502	1.135	0.570	-
836.6	190	GPRS 3TX	29.5	28.95	-0.01	Right	1:2.77	10		0.476	1.135	0.540	-
836.6	190	GPRS 3TX	29.5	28.95	0.14	Top	1:2.77	10		0.584	1.135	0.663	-
836.6	190	GSM Voice	33.5	32.21	-0.16	Rear	1:8.3	10		0.424	1.346	0.571	-
836.6	190	GSM Voice	33.5	32.21	-0.11	Front	1:8.3	10		0.272	1.346	0.366	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

GSM 1900 Body / Hotspot SAR- MAIN1(Ant A)													
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880	661	GPRS 1TX	29.0	28.25	0.12	Rear	1:8.3	10		0.378	1.189	0.449	-
1 880	661	GPRS 1TX	29.0	28.25	0.19	Front	1:8.3	10		0.334	1.189	0.397	-
1 880	661	GPRS 1TX	29.0	28.25	0.14	Left	1:8.3	10		0.058	1.189	0.069	-
1 880	661	GPRS 1TX	29.0	28.25	0.03	Right	1:8.3	10		0.045	1.189	0.054	-
1 880	661	GPRS 1TX	29.0	28.25	0.03	Bottom	1:8.3	10		0.827	1.189	0.983	-
1 850.2	512	GPRS 1TX	29.0	28.04	-0.05	Bottom	1:8.3	10		0.802	1.247	1.000	B3
1 909.8	810	GPRS 1TX	29.0	28.48	0.01	Bottom	1:8.3	10		0.847	1.127	0.955	-
1 909.8	810	GPRS 1TX	29.0	28.48	-0.05	Bottom	1:8.3	10		0.839	1.127	0.946	*
1 880	661	GSM Voice	29.0	27.88	0.17	Rear	1:8.3	10		0.376	1.294	0.487	-
1 880	661	GSM Voice	29.0	27.88	0.13	Front	1:8.3	10		0.350	1.294	0.453	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

Note: * Data entry indicate Variability measurement.

UMTS Band 5 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
836.6	4183	RMC	25.0	24.41	-0.19	Rear	1:1		10	0.310	1.146	0.355	B4
836.6	4183	RMC	25.0	24.41	-0.08	Front	1:1		10	0.210	1.146	0.241	-
836.6	4183	RMC	25.0	24.41	-0.03	Left	1:1		10	0.051	1.146	0.058	-
836.6	4183	RMC	25.0	24.41	-0.17	Right	1:1		10	0.069	1.146	0.079	-
836.6	4183	RMC	25.0	24.41	-0.10	Bottom	1:1		10	0.161	1.146	0.185	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 5 Body / Hotspot SAR- SUB1(Ant E)

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
836.6	4183	RMC	25	23.28	-0.10	Rear	1:1		10	0.483	1.486	0.718	B5
836.6	4183	RMC	25	23.28	-0.18	Front	1:1		10	0.371	1.486	0.551	-
836.6	4183	RMC	25	23.28	0.03	Right	1:1		10	0.301	1.486	0.447	-
836.6	4183	RMC	25	23.28	0.18	Top	1:1		10	0.395	1.486	0.587	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 4 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 732.4	1412	RMC	20.0	19.14	0.13	Rear	1:1		10	0.490	1.219	0.597	-
1 732.4	1412	RMC	20.0	19.14	0.08	Front	1:1		10	0.426	1.219	0.519	-
1 732.4	1412	RMC	20.0	19.14	0.13	Left	1:1		10	0.088	1.219	0.107	-
1 732.4	1412	RMC	20.0	19.14	0.18	Right	1:1		10	0.072	1.219	0.088	-
1 732.4	1412	RMC	20.0	19.14	0.17	Bottom	1:1		10	0.783	1.219	0.954	-
1 712.4	1312	RMC	20.0	19.49	-0.04	Bottom	1:1		10	0.871	1.125	0.980	-
1 752.8	1513	RMC	20.0	19.20	-0.04	Bottom	1:1		10	0.816	1.202	0.981	B6
1 712.4	1312	RMC	20.0	19.49	-0.05	Bottom	1:1		10	0.789	1.125	0.888	*
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

Note: * Data entry indicate Variability measurement.

UMTS Band 2 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 880	9400	RMC	19.5	18.92	0.13	Rear	1:1		10	0.455	1.143	0.520	-
1 880	9400	RMC	19.5	18.92	0.18	Front	1:1		10	0.399	1.143	0.456	-
1 880	9400	RMC	19.5	18.92	-0.04	Left	1:1		10	0.075	1.143	0.086	-
1 880	9400	RMC	19.5	18.92	0.04	Right	1:1		10	0.062	1.143	0.071	-
1 880	9400	RMC	19.5	18.92	-0.03	Bottom	1:1		10	0.906	1.143	1.036	B7
1 852.4	9262	RMC	19.5	19.34	-0.01	Bottom	1:1		10	0.898	1.038	0.932	-
1 907.6	9538	RMC	19.5	19.21	-0.04	Bottom	1:1		10	0.894	1.069	0.956	-
1 880	9400	RMC	19.5	18.92	-0.02	Bottom	1:1		10	0.903	1.143	1.032	*

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

Note: * Data entry indicate Variability measurement.

LTE FDD Band 2 Body / Hotspot SAR - SUB2(Ant F) under ULCA with RCV ON

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 900	19100	QPSK	20	20.0	19.11	0.04	Rear	0	1	49	1:1		10	0.204	1.227	0.250	-
1 900	19100	QPSK	20	20.0	19.01	0.00	Rear	0	50	49	1:1		10	0.204	1.256	0.256	-
1 900	19100	QPSK	20	20.0	19.11	0.13	Front	0	1	49	1:1		10	0.136	1.227	0.167	-
1 900	19100	QPSK	20	20.0	19.01	0.14	Front	0	50	49	1:1		10	0.141	1.256	0.177	-
1 900	19100	QPSK	20	20.0	19.11	0.15	Left	0	1	49	1:1		10	0.082	1.227	0.100	-
1 900	19100	QPSK	20	20.0	19.01	0.03	Left	0	50	49	1:1		10	0.081	1.256	0.102	-
1 900	19100	QPSK	20	20.0	19.11	0.03	Top	0	1	49	1:1		10	0.328	1.227	0.402	-
1 900	19100	QPSK	20	20.0	19.01	-0.09	Top	0	50	49	1:1		10	0.334	1.256	0.420	B8

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

LTE FDD Band 12 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
707.5	23095	QPSK	10	25	23.96	-0.03	Rear	0	1	0	1:1		10	0.263	1.271	0.334	B9
707.5	23095	QPSK	10	24	22.98	0.01	Rear	1	25	0	1:1		10	0.224	1.265	0.283	-
707.5	23095	QPSK	10	25	23.96	0.03	Front	0	1	0	1:1		10	0.152	1.271	0.193	-
707.5	23095	QPSK	10	24	22.98	0.02	Front	1	25	0	1:1		10	0.133	1.265	0.168	-
707.5	23095	QPSK	10	25	23.96	-0.08	Left	0	1	0	1:1		10	0.117	1.271	0.149	-
707.5	23095	QPSK	10	24	22.98	-0.12	Left	1	25	0	1:1		10	0.091	1.265	0.115	-
707.5	23095	QPSK	10	25	23.96	-0.15	Right	0	1	0	1:1		10	0.129	1.271	0.164	-
707.5	23095	QPSK	10	24	22.98	-0.09	Right	1	25	0	1:1		10	0.105	1.265	0.133	-
707.5	23095	QPSK	10	25	23.96	-0.16	Bottom	0	1	0	1:1		10	0.137	1.271	0.174	-
707.5	23095	QPSK	10	24	22.98	-0.10	Bottom	1	25	0	1:1		10	0.118	1.265	0.149	-

ANSI/ IEEE C95.1 - 2005– Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

LTE FDD Band 13 Body / Hotspot SAR - MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
782	23230	QPSK	10	25	24.10	0.10	Rear	0	1	0	1:1		10	0.268	1.230	0.330	B10
782	23230	QPSK	10	24	23.10	0.19	Rear	1	25	0	1:1		10	0.217	1.230	0.267	-
782	23230	QPSK	10	25	24.10	-0.03	Front	0	1	0	1:1		10	0.173	1.230	0.213	-
782	23230	QPSK	10	24	23.10	-0.03	Front	1	25	0	1:1		10	0.139	1.230	0.171	-
782	23230	QPSK	10	25	24.10	-0.10	Left	0	1	0	1:1		10	0.096	1.230	0.118	-
782	23230	QPSK	10	24	23.10	-0.15	Left	1	25	0	1:1		10	0.073	1.230	0.090	-
782	23230	QPSK	10	25	24.10	-0.13	Right	0	1	0	1:1		10	0.098	1.230	0.121	-
782	23230	QPSK	10	24	23.10	-0.14	Right	1	25	0	1:1		10	0.072	1.230	0.089	-
782	23230	QPSK	10	25	24.10	-0.10	Bottom	0	1	0	1:1		10	0.163	1.230	0.200	-
782	23230	QPSK	10	24	23.10	-0.13	Bottom	1	25	0	1:1		10	0.125	1.230	0.154	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 25 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 905	26590	QPSK	20	18	17.45	0.12	Rear	0	1	0	1:1		10	0.303	1.135	0.344	-
1 905	26590	QPSK	20	18	17.49	-0.10	Rear	0	50	0	1:1		10	0.308	1.125	0.347	-
1 905	26590	QPSK	20	18	17.45	0.16	Front	0	1	0	1:1		10	0.333	1.135	0.378	-
1 905	26590	QPSK	20	18	17.49	0.19	Front	0	50	0	1:1		10	0.334	1.125	0.376	-
1 905	26590	QPSK	20	18	17.45	-0.12	Left	0	1	0	1:1		10	0.043	1.135	0.049	-
1 905	26590	QPSK	20	18	17.49	-0.15	Left	0	50	0	1:1		10	0.041	1.125	0.046	-
1 905	26590	QPSK	20	18	17.45	0.18	Right	0	1	0	1:1		10	0.063	1.135	0.072	-
1 905	26590	QPSK	20	18	17.49	0.16	Right	0	50	0	1:1		10	0.064	1.125	0.072	-
1 905	26590	QPSK	20	18	17.45	0.13	Bottom	0	1	0	1:1		10	0.792	1.135	0.899	-
1 860	26140	QPSK	20	18	17.28	0.16	Bottom	0	1	49	1:1		10	0.647	1.180	0.763	-
1 882.5	26365	QPSK	20	18	17.37	0.13	Bottom	0	1	49	1:1		10	0.718	1.156	0.830	-
1 905	26590	QPSK	20	18	17.49	0.11	Bottom	0	50	0	1:1		10	0.803	1.125	0.903	B11
1 860	26140	QPSK	20	18	17.44	0.13	Bottom	0	50	0	1:1		10	0.659	1.138	0.750	-
1 882.5	26365	QPSK	20	18	17.48	0.12	Bottom	0	50	0	1:1		10	0.733	1.127	0.826	-
1 905	26590	QPSK	20	18	17.46	0.12	Bottom	0	100	0	1:1		10	0.797	1.132	0.902	-
1 905	26590	QPSK	20	18	17.49	0.12	Bottom	0	50	0	1:1		10	0.799	1.125	0.899	*
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

Note: * Data entry indicate Variability measurement.

LTE FDD Band 26 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
831.5	26865	QPSK	15	25	24.14	0.00	Rear	0	1	0	1:1		10	0.438	1.219	0.534	B12
831.5	26865	QPSK	15	24	23.14	-0.12	Rear	1	36	0	1:1		10	0.348	1.219	0.424	-
831.5	26865	QPSK	15	25	24.14	-0.01	Front	0	1	0	1:1		10	0.214	1.219	0.261	-
831.5	26865	QPSK	15	24	23.14	-0.10	Front	1	36	0	1:1		10	0.169	1.219	0.206	-
831.5	26865	QPSK	15	25	24.14	-0.11	Left	0	1	0	1:1		10	0.096	1.219	0.117	-
831.5	26865	QPSK	15	24	23.14	-0.09	Left	1	36	0	1:1		10	0.072	1.219	0.088	-
831.5	26865	QPSK	15	25	24.14	-0.11	Right	0	1	0	1:1		10	0.141	1.219	0.172	-
831.5	26865	QPSK	15	24	23.14	-0.16	Right	1	36	0	1:1		10	0.106	1.219	0.129	-
831.5	26865	QPSK	15	25	24.14	-0.14	Bottom	0	1	0	1:1		10	0.165	1.219	0.201	-
831.5	26865	QPSK	15	24	23.14	-0.18	Bottom	1	36	0	1:1		10	0.136	1.219	0.166	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 26 Body / Hotspot SAR- SUB1(Ant E)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
831.5	26865	QPSK	15	25	24.17	-0.14	Rear	0	1	0	1:1		10	0.434	1.211	0.526	-
831.5	26865	QPSK	15	24	22.32	0.03	Rear	1	36	0	1:1		10	0.406	1.472	0.598	B13
831.5	26865	QPSK	15	25	24.17	-0.02	Front	0	1	0	1:1		10	0.466	1.211	0.564	-
831.5	26865	QPSK	15	24	22.32	-0.02	Front	1	36	0	1:1		10	0.339	1.472	0.499	-
831.5	26865	QPSK	15	25	24.17	0.02	Right	0	1	0	1:1		10	0.185	1.211	0.224	-
831.5	26865	QPSK	15	24	22.32	-0.12	Right	1	36	0	1:1		10	0.137	1.472	0.202	-
831.5	26865	QPSK	15	25	24.17	0.13	Top	0	1	0	1:1		10	0.156	1.211	0.189	-
831.5	26865	QPSK	15	24	22.32	0.19	Top	1	36	0	1:1		10	0.119	1.472	0.175	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE TDD Band 41 Body / Hotspot SAR (Power Class 3) - MAIN2(Ant B)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 636.5	41055	QPSK	20	22.5	21.94	0.17	Rear	0	1	49	1:1.58		10	0.455	1.138	0.518	-
2 636.5	41055	QPSK	20	22.5	21.50	-0.14	Rear	0	50	0	1:1.58		10	0.407	1.259	0.512	-
2 636.5	41055	QPSK	20	22.5	21.94	0.18	Front	0	1	49	1:1.58		10	0.266	1.138	0.303	-
2 636.5	41055	QPSK	20	22.5	21.50	0.16	Front	0	50	0	1:1.58		10	0.235	1.259	0.296	-
2 636.5	41055	QPSK	20	22.5	21.94	0.17	Left	0	1	49	1:1.58		10	0.559	1.138	0.636	-
2 506	39750	QPSK	20	22.5	21.33	-0.15	Left	0	1	49	1:1.58		10	0.309	1.309	0.404	-
2 549.5	40185	QPSK	20	22.5	21.68	0.19	Left	0	1	49	1:1.58		10	0.373	1.208	0.451	-
2 593	40620	QPSK	20	22.5	21.82	-0.11	Left	0	1	49	1:1.58		10	0.416	1.169	0.486	-
2 680	41490	QPSK	20	22.5	21.92	0.11	Left	0	1	49	1:1.58		10	0.402	1.143	0.459	-
2 636.5	41055	QPSK	20	22.5	21.50	0.11	Left	0	50	0	1:1.58		10	0.495	1.259	0.623	-
2 506	39750	QPSK	20	22.5	20.64	-0.17	Left	0	50	0	1:1.58		10	0.268	1.535	0.411	-
2 549.5	40185	QPSK	20	22.5	21.01	0.10	Left	0	50	0	1:1.58		10	0.341	1.409	0.480	-
2 593	40620	QPSK	20	22.5	21.16	-0.12	Left	0	50	0	1:1.58		10	0.368	1.361	0.501	-
2 680	41490	QPSK	20	22.5	21.18	-0.19	Left	0	50	0	1:1.58		10	0.370	1.355	0.501	-
2 636.5	41055	QPSK	20	22.5	21.45	0.10	Left	0	100	0	1:1.58		10	0.408	1.274	0.520	-
2 636.5	41055	QPSK	20	22.5	21.94	0.07	Bottom	0	1	49	1:1.58		10	0.400	1.138	0.455	-
2 636.5	41055	QPSK	20	22.5	21.50	0.10	Bottom	0	50	0	1:1.58		10	0.364	1.259	0.458	-
2 636.5	41055	QPSK	20	24.6	24.07	0.03	Left	0	1	49	1:2.31		10	0.603	1.130	0.681	B14**
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

Note: ** Data entry indicate LTE 41 Power Class 2(HPUE)

LTE FDD Band 66 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 720	132072	QPSK	20	18	17.79	0.14	Rear	0	1	49	1:1		10	0.340	1.050	0.357	-
1 720	132072	QPSK	20	18	17.79	0.15	Rear	0	50	0	1:1		10	0.360	1.050	0.378	-
1 720	132072	QPSK	20	18	17.79	0.16	Front	0	1	49	1:1		10	0.247	1.050	0.259	-
1 720	132072	QPSK	20	18	17.79	-0.14	Front	0	50	0	1:1		10	0.268	1.050	0.281	-
1 720	132072	QPSK	20	18	17.79	0.01	Left	0	1	49	1:1		10	0.035	1.050	0.037	-
1 720	132072	QPSK	20	18	17.79	0.07	Left	0	50	0	1:1		10	0.037	1.050	0.039	-
1 720	132072	QPSK	20	18	17.79	-0.01	Right	0	1	49	1:1		10	0.037	1.050	0.039	-
1 720	132072	QPSK	20	18	17.79	0.19	Right	0	50	0	1:1		10	0.037	1.050	0.039	-
1 720	132072	QPSK	20	18	17.79	0.14	Bottom	0	1	49	1:1		10	0.549	1.050	0.576	-
1 720	132072	QPSK	20	18	17.79	0.16	Bottom	0	50	0	1:1		10	0.569	1.050	0.597	B15
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

LTE FDD Band 66 Body / Hotspot SAR- SUB2(Ant F)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 720	132072	QPSK	20	20.0	19.58	-0.08	Rear	0	1	49	1:1		10	0.300	1.102	0.331	-
1 720	132072	QPSK	20	20.0	19.45	-0.06	Rear	0	50	0	1:1		10	0.303	1.135	0.344	-
1 720	132072	QPSK	20	20.0	19.58	-0.08	Front	0	1	49	1:1		10	0.273	1.102	0.301	-
1 720	132072	QPSK	20	20.0	19.45	-0.13	Front	0	50	0	1:1		10	0.272	1.135	0.309	-
1 720	132072	QPSK	20	20.0	19.58	0.18	Left	0	1	49	1:1		10	0.088	1.102	0.097	-
1 720	132072	QPSK	20	20.0	19.45	0.03	Left	0	50	0	1:1		10	0.096	1.135	0.109	-
1 720	132072	QPSK	20	20.0	19.58	0.12	Top	0	1	49	1:1		10	0.498	1.102	0.549	-
1 720	132072	QPSK	20	20.0	19.45	0.11	Top	0	50	0	1:1		10	0.504	1.135	0.572	B16
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR FDD Band n5 (Cell) Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	25	23.70	-0.13	Rear	0	1	53	1:1		10	0.467	1.349	0.630	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.65	-0.08	Rear	0	50	28	1:1		10	0.462	1.365	0.631	B17
836.5	167300	DFT-s OFDM QPSK	20	25	23.70	-0.17	Front	0	1	53	1:1		10	0.239	1.349	0.322	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.65	0.07	Front	0	50	28	1:1		10	0.235	1.365	0.321	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.70	-0.12	Left	0	1	53	1:1		10	0.068	1.349	0.092	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.65	-0.17	Left	0	50	28	1:1		10	0.065	1.365	0.089	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.70	-0.14	Right	0	1	53	1:1		10	0.090	1.349	0.121	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.65	-0.17	Right	0	50	28	1:1		10	0.089	1.365	0.121	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.70	0.17	Bottom	0	1	53	1:1		10	0.126	1.349	0.170	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.65	0.17	Bottom	0	50	28	1:1		10	0.125	1.365	0.171	-
836.5	167300	CP QPSK	20	23.5	22.11	-0.02	Rear	1.5	1	1	1:1		10	0.341	1.377	0.470	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR FDD Band n5 (Cell) Body / Hotspot SAR- SUB1(Ant E)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	25	23.96	-0.10	Rear	0	1	1	1:1		10	0.279	1.271	0.355	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.81	-0.10	Rear	0	50	28	1:1		10	0.248	1.315	0.326	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.96	0.13	Front	0	1	1	1:1		10	0.391	1.271	0.497	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.81	-0.03	Front	0	50	28	1:1		10	0.411	1.315	0.540	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.96	0.06	Right	0	1	1	1:1		10	0.358	1.271	0.455	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.81	-0.02	Right	0	50	28	1:1		10	0.359	1.315	0.472	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.96	0.15	Top	0	1	1	1:1		10	0.432	1.271	0.549	-
836.5	167300	DFT-s OFDM QPSK	20	25	23.81	0.19	Top	0	50	28	1:1		10	0.460	1.315	0.605	B18
836.5	167300	CP QPSK	20	23.5	22.4	0.11	Top	1.5	1	1	1:1		10	0.303	1.288	0.390	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR FDD Band n25 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 905	381000	DFT-s OFDM QPSK	20	18	17.10	-0.18	Rear	0	1	53	1:1		10	0.250	1.230	0.308	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.17	-0.17	Rear	0	50	56	1:1		10	0.224	1.211	0.271	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.10	-0.12	Front	0	1	53	1:1		10	0.215	1.230	0.264	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.17	0.09	Front	0	50	56	1:1		10	0.216	1.211	0.262	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.10	-0.16	Left	0	1	53	1:1		10	0.032	1.230	0.039	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.17	-0.19	Left	0	50	56	1:1		10	0.031	1.211	0.038	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.10	-0.15	Right	0	1	53	1:1		10	0.035	1.230	0.043	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.17	-0.13	Right	0	50	56	1:1		10	0.035	1.211	0.042	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.10	-0.13	Bottom	0	1	53	1:1		10	0.593	1.230	0.729	-
1 905	381000	DFT-s OFDM QPSK	20	18	17.17	-0.04	Bottom	0	50	56	1:1		10	0.609	1.211	0.737	-
1 905	381000	CP QPSK	20	18	16.96	0.02	Bottom	0	1	1	1:1		10	0.608	1.271	0.773	B19
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR FDD Band n25 Body / Hotspot SAR- SUB2(Ant F)

Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)									
1 905	381000	DFT-s OFDM QPSK	20	20	19.09	-0.19	Rear	0	1	53	1:1		10	0.223	1.233	0.275	-
1 905	381000	DFT-s OFDM QPSK	20	20	19.05	-0.11	Rear	0	50	56	1:1		10	0.224	1.245	0.279	-
1 905	381000	DFT-s OFDM QPSK	20	20	19.09	0.10	Front	0	1	53	1:1		10	0.201	1.233	0.248	-
1 905	381000	DFT-s OFDM QPSK	20	20	19.05	-0.19	Front	0	50	56	1:1		10	0.193	1.245	0.240	-
1 905	381000	DFT-s OFDM QPSK	20	20	19.09	-0.05	Left	0	1	53	1:1		10	0.090	1.233	0.111	-
1 905	381000	DFT-s OFDM QPSK	20	20	19.05	0.17	Left	0	50	56	1:1		10	0.087	1.245	0.108	-
1 905	381000	DFT-s OFDM QPSK	20	20	19.09	-0.17	Top	0	1	53	1:1		10	0.431	1.233	0.531	-
1 905	381000	DFT-s OFDM QPSK	20	20	19.05	-0.19	Top	0	50	56	1:1		10	0.413	1.245	0.514	-
1 905	381000	CP QPSK	20	20	19.02	-0.15	Top	0	1	1	1:1		10	0.436	1.253	0.546	B20
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR TDD Band n41 Body / Hotspot SAR - SUB2(Ant F)

Frequency		Mode	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)									
2 592.99	518598	DFT-s OFDM QPSK	100	18	17.25	0.16	Rear	0	1	1	1:1		10	0.205	1.189	0.244	-
2 592.99	518598	DFT-s OFDM QPSK	100	18	16.90	0.01	Rear	0	135	69	1:1		10	0.201	1.288	0.259	-
2 592.99	518598	DFT-s OFDM QPSK	100	18	17.25	0.18	Front	0	1	1	1:1		10	0.141	1.189	0.168	-
2 592.99	518598	DFT-s OFDM QPSK	100	18	16.90	0.03	Front	0	135	69	1:1		10	0.136	1.288	0.175	-
2 592.99	518598	DFT-s OFDM QPSK	100	18	17.25	0.05	Left	0	1	1	1:1		10	0.037	1.189	0.044	-
2 592.99	518598	DFT-s OFDM QPSK	100	18	16.90	0.19	Left	0	135	69	1:1		10	0.013	1.288	0.017	-
2 592.99	518598	DFT-s OFDM QPSK	100	18	17.25	0.04	Top	0	1	1	1:1		10	0.334	1.189	0.397	-
2 592.99	518598	DFT-s OFDM QPSK	100	18	16.90	0.03	Top	0	135	69	1:1		10	0.330	1.288	0.425	B21
2 592.99	518598	CP QPSK	100	18	17.11	0.18	Top	0	1	1	1:1		10	0.331	1.227	0.406	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									



NR TDD Band n41 SRS Body / Hotspot SAR

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	(dB)					(mm)	(W/kg)		(W/kg)
SRS #1 MAIN2(Ant B)																	
2 592.99	518598	DFT-s OFDM QPSK	100	14	13.03	0.00	Rear	0	1	136	1:1		10	0.079	1.250	0.099	-
2 592.99	518598	DFT-s OFDM QPSK	100	14	13.03	-0.09	Front	0	1	136	1:1		10	0.038	1.250	0.048	-
2 592.99	518598	DFT-s OFDM QPSK	100	14	13.03	0.16	Left	0	1	136	1:1		10	0.036	1.250	0.045	-
2 592.99	518598	DFT-s OFDM QPSK	100	14	13.03	0.19	Bottom	0	1	136	1:1		10	0.093	1.250	0.116	-
SRS #2 SUB1(Ant E)																	
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.14	0.00	Rear	0	1	136	1:1		10	0.118	1.219	0.144	B22
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.14	-0.07	Front	0	1	136	1:1		10	0.109	1.219	0.133	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.14	0.07	Right	0	1	136	1:1		10	0.064	1.219	0.078	-
2 592.99	518598	DFT-s OFDM QPSK	100	15	14.14	0.16	Top	0	1	136	1:1		10	0.112	1.219	0.137	-
SRS #3 MAIN4(Ant D)																	
2 592.99	518598	DFT-s OFDM QPSK	100	10.5	9.88	-0.12	Rear	0	1	136	1:1		10	0.094	1.153	0.108	-
2 592.99	518598	DFT-s OFDM QPSK	100	10.5	9.88	0.00	Front	0	1	136	1:1		10	0.00971	1.153	0.011	-
2 592.99	518598	DFT-s OFDM QPSK	100	10.5	9.88	0.00	Right	0	1	136	1:1		10	0.000	1.153	0.000	-
2 592.99	518598	DFT-s OFDM QPSK	100	10.5	9.88	0.14	Bottom	0	1	136	1:1		10	0.033	1.153	0.038	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR FDD Band n66 Body / Hotspot SAR- MAIN1(Ant A)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.63	0.00	Rear	0	1	53	1:1		10	0.273	1.222	0.334	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.64	-0.13	Rear	0	50	56	1:1		10	0.261	1.219	0.318	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.63	-0.15	Front	0	1	53	1:1		10	0.226	1.222	0.276	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.64	-0.15	Front	0	50	56	1:1		10	0.218	1.219	0.266	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.63	-0.15	Left	0	1	53	1:1		10	0.049	1.222	0.060	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.64	0.16	Left	0	50	56	1:1		10	0.040	1.219	0.049	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.63	-0.13	Right	0	1	53	1:1		10	0.025	1.222	0.031	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.64	-0.18	Right	0	50	56	1:1		10	0.022	1.219	0.027	-
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.63	-0.01	Bottom	0	1	53	1:1		10	0.580	1.222	0.709	B23
1 745	349000	DFT-s OFDM QPSK	20	18.5	17.64	-0.18	Bottom	0	50	56	1:1		10	0.535	1.219	0.652	-
1 745	349000	CP OFDM QPSK	20	18.5	17.46	-0.14	Bottom	0	1	1	1:1		10	0.549	1.271	0.698	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR FDD Band n66 Body / Hotspot SAR- SUB2(Ant F)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.46	-0.10	Rear	0	1	1	1:1		10	0.159	1.271	0.202	-
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.39	-0.10	Rear	0	50	0	1:1		10	0.161	1.291	0.208	-
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.46	0.01	Front	0	1	1	1:1		10	0.146	1.271	0.186	-
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.39	-0.17	Front	0	50	0	1:1		10	0.143	1.291	0.185	-
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.46	-0.01	Left	0	1	1	1:1		10	0.063	1.271	0.080	-
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.39	-0.07	Left	0	50	0	1:1		10	0.063	1.291	0.081	-
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.46	-0.16	Top	0	1	1	1:1		10	0.309	1.271	0.393	-
1 720	344000	DFT-s OFDM QPSK	20	19.5	18.39	-0.06	Top	0	50	0	1:1		10	0.310	1.291	0.400	-
1 720	344000	CP OFDM QPSK	20	19.5	18.27	-0.18	Top	0	1	1	1:1		10	0.347	1.327	0.460	B24
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR TDD Band n77 Body / Hotspot SAR - SUB2(Ant F)

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.55	-0.17	Rear	0	1	1	1:1		10	0.210	1.245	0.261	-
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.35	-0.14	Rear	1	135	138	1:1		10	0.276	1.303	0.360	B25
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.55	-0.15	Front	0	1	1	1:1		10	0.080	1.245	0.100	-
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.35	0.00	Front	1	135	138	1:1		10	0.107	1.303	0.139	-
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.55	-0.16	Left	0	1	1	1:1		10	0.04	1.245	0.050	-
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.35	0.13	Left	1	135	138	1:1		10	0.053	1.303	0.069	-
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.55	0.19	Top	0	1	1	1:1		10	0.159	1.245	0.198	-
3 750	650000	DFT-s OFDM QPSK	100	15.5	14.35	-0.00	Top	1	135	138	1:1		10	0.169	1.303	0.220	-
3 750	650000	CP OFDM QPSK	100	15.5	14.43	0.00	Rear	1.5	1	1	1:1		10	0.229	1.279	0.293	-
3 500.01	633334	DFT-s OFDM QPSK	100	15.5	15.43	0.00	Rear	0	1	1	1:1		10	0.136	1.016	0.138	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR TDD Band n77 SRS Body / Hotspot SAR

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)						(mm)	(W/kg)		
SRS #1 MAIN3(Ant C)																	
3 930	662000	DFT-s OFDM QPSK	100	14.5	13.50	-0.13	Rear	0	1	136	1:1		10	0.032	1.259	0.040	-
3 930	662000	DFT-s OFDM QPSK	100	14.5	13.50	0.00	Front	0	1	136	1:1		10	0.025	1.259	0.031	-
3 930	662000	DFT-s OFDM QPSK	100	14.5	13.50	0.03	Left	0	1	136	1:1		10	0.079	1.259	0.099	-
3 930	662000	DFT-s OFDM QPSK	100	14.5	13.50	0.12	Bottom	0	1	136	1:1		10	0.047	1.259	0.059	-
3 500.01	633334	DFT-s OFDM QPSK	100	14.5	13.88	0.08	Left	0	1	136	1:1		10	0.324	1.153	0.374	B26
SRS #2 SUB5(Ant I)																	
3 750	650000	DFT-s OFDM QPSK	100	14.8	14.41	-0.14	Rear	0	1	136	1:1		10	0.092	1.094	0.101	-
3 750	650000	DFT-s OFDM QPSK	100	14.8	14.41	-0.13	Front	0	1	136	1:1		10	0.080	1.094	0.088	-
3 750	650000	DFT-s OFDM QPSK	100	14.8	14.41	0.12	Left	0	1	136	1:1		10	0.034	1.094	0.037	-
3 500.01	633334	DFT-s OFDM QPSK	100	14.8	13.73	0.00	Rear	0	1	136	1:1		10	0.160	1.279	0.205	-
SRS #3 MAIN4(Ant D)																	
3 750	650000	DFT-s OFDM QPSK	100	13.5	13.15	-0.14	Rear	0	1	136	1:1		10	0.210	1.084	0.228	-
3 750	650000	DFT-s OFDM QPSK	100	13.5	13.15	-0.10	Front	0	1	136	1:1		10	0.014	1.084	0.015	-
3 750	650000	DFT-s OFDM QPSK	100	13.5	13.15	0.00	Right	0	1	136	1:1		10	0.000102	1.084	0.000	-
3 750	650000	DFT-s OFDM QPSK	100	13.5	13.15	0.00	Bottom	0	1	136	1:1		10	0.022	1.084	0.024	-
3 500.01	633334	DFT-s OFDM QPSK	100	13.5	12.01	-0.12	Rear	0	1	136	1:1		10	0.251	1.409	0.354	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

DTS Body / Hotspot SAR

Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Reported SAR	Plot No.
Mhz	Ch.		(Mhz)	(Mbps)	(dBm)	(dBm)	(dB)				(mm)	(W/kg)	(W/kg)			(W/kg)	
2 462	11	802.11b	20	1	18	17.85	-0.17	Rear	WIFI1	98.8	10	0.598	0.373	1.035	1.012	0.391	-
2 462	11	802.11b	20	1	18	17.85	-0.00	Front	WIFI1	98.8	10	0.488	0.297	1.035	1.012	0.311	-
2 462	11	802.11b	20	1	18	17.85	0.16	Left	WIFI1	98.8	10	0.663	0.401	1.035	1.012	0.420	B27
2 462	11	802.11b	20	1	18	17.85	0.10	Top	WIFI1	98.8	10	0.241	0.151	1.035	1.012	0.158	-
2 462	11	802.11b	20	1	18	17.90	-0.16	Rear	WIFI2	98.8	10	0.455	0.292	1.023	1.012	0.302	-
2 462	11	802.11b	20	1	18	17.90	0.17	Front	WIFI2	98.8	10	0.451	0.292	1.023	1.012	0.302	-
2 462	11	802.11b	20	1	18	17.90	0.13	Right	WIFI2	98.8	10	0.115	0.062	1.023	1.012	0.064	-
2 462	11	802.11b	20	1	18	17.90	0.00	Top	WIFI2	98.8	10	0.00964	0.00411	1.023	1.012	0.004	-
2 462	11	802.11b	20	1	21	20.89	0.10	Rear	MIMO	98.8	10	0.536	0.307	1.035	1.012	0.322	-
2 462	11	802.11b	20	1	21	20.89	0.19	Front	MIMO	98.8	10	0.356	0.214	1.035	1.012	0.224	-
2 462	11	802.11b	20	1	21	20.89	-0.10	Left	MIMO	98.8	10	0.529	0.322	1.035	1.012	0.337	-
2 462	11	802.11b	20	1	21	20.89	0.10	Right	MIMO	98.8	10	0.127	0.064	1.035	1.012	0.067	-
2 462	11	802.11b	20	1	21	20.89	0.16	Top	MIMO	98.8	10	0.246	0.142	1.035	1.012	0.149	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

- For the SAR measurement results of MIMO Ant Mode(802.11b), higher power scaling factor among each SISO ANT was applied.

5 GHz WLAN Body / Hotspot SAR

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																
5 260	52	802.11a	20	6	16	14.98	-0.10	Rear	WIFI1	93.1	10	0.152	0.065	1.265	1.074	0.088	-
5 260	52	802.11a	20	6	16	14.98	0.00	Front	WIFI1	93.1	10	0.182	0.070	1.265	1.074	0.095	-
5 500	100	802.11a	20	6	16	15.25	-0.17	Rear	WIFI1	93.1	10	0.636	0.263	1.189	1.074	0.336	-
5 500	100	802.11a	20	6	16	15.25	0.00	Front	WIFI1	93.1	10	0.234	0.085	1.189	1.074	0.109	-
5 825	165	802.11a	20	6	16	14.60	0.11	Rear	WIFI1	93.1	10	0.303	0.119	1.380	1.074	0.176	-
5 825	165	802.11a	20	6	16	14.60	-0.00	Front	WIFI1	93.1	10	0.204	0.066	1.380	1.074	0.098	-
5 825	165	802.11a	20	6	16	14.60	-0.14	Left	WIFI1	93.1	10	0.814	0.330	1.380	1.074	0.489	B28
5 825	165	802.11a	20	6	16	14.60	0.18	Top	WIFI1	93.1	10	0.192	0.061	1.380	1.074	0.090	-
5 885	177	802.11a	20	6	16	15.45	0.18	Rear	WIFI1	93.1	10	0.572	0.219	1.135	1.074	0.267	-
5 885	177	802.11a	20	6	16	15.45	0.00	Front	WIFI1	93.1	10	0.206	0.089	1.135	1.074	0.108	-
5 290	60	802.11a	20	6	16	15.55	0.00	Rear	WIFI2	93.1	10	0.188	0.077	1.109	1.074	0.092	-
5 290	60	802.11a	20	6	16	15.55	0.00	Front	WIFI2	93.1	10	0.0402	0.0043	1.109	1.074	0.005	-
5 500	100	802.11a	20	6	16	15.38	0.10	Rear	WIFI2	93.1	10	0.513	0.225	1.153	1.074	0.279	-
5 500	100	802.11a	20	6	16	15.38	0.00	Front	WIFI2	93.1	10	0.0757	0.010	1.153	1.074	0.012	-
5 825	165	802.11a	20	6	16	15.12	0.10	Rear	WIFI2	93.1	10	0.43	0.167	1.225	1.074	0.220	-
5 825	165	802.11a	20	6	16	15.12	0.00	Front	WIFI2	93.1	10	0.0232	0.00607	1.225	1.074	0.008	-
5 825	165	802.11a	20	6	16	15.12	0.10	Right	WIFI2	93.1	10	0.0242	0.00624	1.225	1.074	0.008	-
5 825	165	802.11a	20	6	16	15.12	0.11	Top	WIFI2	93.1	10	0.134	0.055	1.225	1.074	0.072	-
5885	177	802.11a	20	6	16	15.31	0.16	Rear	WIFI2	93.1	10	0.504	0.214	1.172	1.074	0.269	-
5885	177	802.11a	20	6	16	15.31	0.00	Front	WIFI2	93.1	10	0.0231	0.00781	1.172	1.074	0.010	-
5 300	60	802.11a	20	6	19	18.19	0.10	Rear	MIMO	93.6	10	0.383	0.165	1.265	1.068	0.223	-
5 300	60	802.11a	20	6	19	18.19	0.12	Front	MIMO	93.6	10	0.133	0.049	1.265	1.068	0.066	-
5 500	100	802.11a	20	6	19	18.39	-0.12	Rear	MIMO	93.6	10	0.641	0.287	1.189	1.068	0.364	-
5 500	100	802.11a	20	6	19	18.39	0.00	Front	MIMO	93.6	10	0.208	0.092	1.189	1.068	0.117	-
5 825	165	802.11a	20	6	19	17.88	-0.14	Rear	MIMO	93.6	10	0.443	0.180	1.380	1.068	0.265	-
5 825	165	802.11a	20	6	19	17.88	0.00	Front	MIMO	93.6	10	0.197	0.069	1.380	1.068	0.102	-
5 825	165	802.11a	20	6	19	17.88	-0.16	Left	MIMO	93.6	10	0.644	0.258	1.380	1.068	0.380	-
5 825	165	802.11a	20	6	19	17.88	-0.10	Right	MIMO	93.6	10	0.0348	0.00746	1.380	1.068	0.011	-
5 825	165	802.11a	20	6	19	17.88	0.15	Top	MIMO	93.6	10	0.168	0.072	1.380	1.068	0.106	-
5 885	177	802.11a	20	6	19	18.39	0.00	Rear	MIMO	93.6	10	0.573	0.245	1.172	1.068	0.307	-
5 885	177	802.11a	20	6	19	18.39	0.00	Front	MIMO	93.6	10	0.186	0.065	1.172	1.068	0.081	-
ANSI/ IEEE C95.1 - 2005-- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

DSS Tethering SAR													
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Distance	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dBm)	(dBm)	(dB)			(mm)	(W/kg)		(Duty)	(W/kg)	
2 480	78	Bluetooth DH5	17	15.81	0.11	Rear	Ant.1	10	0.183	1.315	1.010	0.243	-
2 480	78	Bluetooth DH5	17	15.81	0.13	Front	Ant.1	10	0.119	1.315	1.010	0.158	-
2 480	78	Bluetooth DH5	17	15.81	0.17	Left	Ant.1	10	0.202	1.315	1.010	0.268	-
2 480	78	Bluetooth DH5	17	15.81	0.15	Top	Ant.1	10	0.076	1.315	1.010	0.101	-
2 480	78	Bluetooth DH5	17	16.30	-0.10	Rear	Ant.2	10	0.298	1.175	1.010	0.354	B29
2 480	78	Bluetooth DH5	17	16.30	0.08	Front	Ant.2	10	0.187	1.175	1.010	0.222	-
2 480	78	Bluetooth DH5	17	16.30	0.15	Right	Ant.2	10	0.067	1.175	1.010	0.080	-
2 480	78	Bluetooth DH5	17	16.30	0.00	Top	Ant.2	10	0.00289	1.175	1.010	0.003	-
2 402	0	Bluetooth DH5	15.0	14.02	-0.14	Rear	Dual Tx	10	0.060	1.334	1.010	0.081	-
2 402	0	Bluetooth DH5	15.0	14.02	0.00	Front	Dual Tx	10	0.00962	1.334	1.010	0.013	-
2 402	0	Bluetooth DH5	15.0	14.02	0.16	Left	Dual Tx	10	0.038	1.334	1.010	0.051	-
2 402	0	Bluetooth DH5	15.0	14.02	0.00	Right	Dual Tx	10	0.0032	1.334	1.010	0.004	-
2 402	0	Bluetooth DH5	15.0	14.02	0.01	Top	Dual Tx	10	0.000000532	1.334	1.010	0.000	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

13.3 Phablet SAR Measurement Considerations

Per FCC KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

13.4 Phablet SAR Measurement Results

5 GHz WLAN Phablet SAR _10g																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant. Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
5 260	52	802.11a	20	6	16	14.98	0.00	Rear	WIFI1	93.1	0	4.09	0.385	1.265	1.074	0.523	-
5 260	52	802.11a	20	6	16	14.98	0.00	Front	WIFI1	93.1	0	2.96	0.34	1.265	1.074	0.462	-
5 260	52	802.11a	20	6	16	14.98	-0.15	Left	WIFI1	93.1	0	7.03	0.557	1.265	1.074	0.757	-
5 260	52	802.11a	20	6	16	14.98	-0.17	Top	WIFI1	93.1	0	0.656	0.076	1.265	1.074	0.103	-
5 500	100	802.11a	20	6	16	15.25	0.00	Rear	WIFI1	93.1	0	3.8	0.938	1.189	1.074	1.198	-
5 500	100	802.11a	20	6	16	15.25	0.00	Front	WIFI1	93.1	0	7.07	0.654	1.189	1.074	0.835	-
5 500	100	802.11a	20	6	16	15.25	-0.11	Left	WIFI1	93.1	0	22.3	1.34	1.189	1.074	1.711	-
5 500	100	802.11a	20	6	16	15.25	0.18	Top	WIFI1	93.1	0	3.28	0.277	1.189	1.074	0.354	-
5 885	177	802.11a	20	6	16	15.45	0.00	Rear	WIFI1	93.1	0	7.9	0.832	1.135	1.074	1.014	-
5 885	177	802.11a	20	6	16	15.45	0.00	Front	WIFI1	93.1	0	4.32	0.507	1.135	1.074	0.618	-
5 885	177	802.11a	20	6	16	15.45	0.10	Left	WIFI1	93.1	0	24.2	1.77	1.135	1.074	2.158	-
5 845	169	802.11a	20	6	16	15.20	0.01	Left	WIFI1	93.1	0	17.6	1.56	1.202	1.074	2.014	-
5 885	177	802.11a	20	6	16	15.45	0.01	Top	WIFI1	93.1	0	1.54	0.166	1.135	1.074	0.202	-
5 300	60	802.11a	20	6	16	15.55	0.00	Rear	WIFI2	93.1	0	1.91	0.263	1.109	1.074	0.313	-
5 300	60	802.11a	20	6	16	15.55	0.00	Front	WIFI2	93.1	0	0.577	0.059	1.109	1.074	0.070	-
5 300	60	802.11a	20	6	16	15.55	0.00	Right	WIFI2	93.1	0	0.21	0.014	1.109	1.074	0.017	-
5 300	60	802.11a	20	6	16	15.55	0.12	Top	WIFI2	93.1	0	0.586	0.056	1.109	1.074	0.067	-
5 500	100	802.11a	20	6	16	15.38	0.00	Rear	WIFI2	93.1	0	6.3	0.625	1.153	1.074	0.774	-
5 500	100	802.11a	20	6	16	15.38	0.00	Front	WIFI2	93.1	0	1.07	0.0914	1.153	1.074	0.113	-
5 500	100	802.11a	20	6	16	15.38	0.00	Right	WIFI2	93.1	0	0.193	0.00913	1.153	1.074	0.011	-
5 500	100	802.11a	20	6	16	15.38	0.18	Top	WIFI2	93.1	0	1.06	0.12	1.153	1.074	0.149	-
5 885	177	802.11a	20	6	16	15.31	0.00	Rear	WIFI2	93.1	0	4.15	0.424	1.172	1.074	0.534	-
5 885	177	802.11a	20	6	16	15.31	0.00	Front	WIFI2	93.1	0	0.542	0.071	1.172	1.074	0.089	-
5 885	177	802.11a	20	6	16	15.31	0.00	Right	WIFI2	93.1	0	0.12	0.00706	1.172	1.074	0.009	-
5 885	177	802.11a	20	6	16	15.31	0.17	Top	WIFI2	93.1	0	0.879	0.095	1.172	1.074	0.120	-
5 300	60	802.11a	20	6	19	18.19	0.00	Rear	MIMO	93.6	0	6.730	0.694	1.324	1.068	0.982	-
5 300	60	802.11a	20	6	19	18.19	0.00	Front	MIMO	93.6	0	2.480	0.373	1.324	1.068	0.528	-
5 300	60	802.11a	20	6	19	18.19	0.12	Left	MIMO	93.6	0	12.300	1.05	1.324	1.068	1.485	-
5 300	60	802.11a	20	6	19	18.19	0.02	Right	MIMO	93.6	0	0.382	0.047	1.324	1.068	0.066	-
5 300	60	802.11a	20	6	19	18.19	0.03	Top	MIMO	93.6	0	1.430	0.171	1.324	1.068	0.242	-
5 500	100	802.11a	20	6	19	18.39	-0.11	Rear	MIMO	93.6	0	6.320	0.529	1.189	1.068	0.672	-
5 500	100	802.11a	20	6	19	18.39	0.11	Front	MIMO	93.6	0	6.120	0.380	1.189	1.068	0.483	-
5 500	100	802.11a	20	6	19	18.39	0.17	Left	MIMO	93.6	0	15.600	1.31	1.189	1.068	1.664	-
5 500	100	802.11a	20	6	19	18.39	0.10	Right	MIMO	93.6	0	0.357	0.031	1.189	1.068	0.039	-
5 500	100	802.11a	20	6	19	18.39	-0.01	Top	MIMO	93.6	0	3.290	0.282	1.189	1.068	0.358	-
5 885	177	802.11a	20	6	19	18.39	0.00	Rear	MIMO	93.6	0	8.68	0.913	1.172	1.068	1.143	-
5 885	177	802.11a	20	6	19	18.39	0.00	Front	MIMO	93.6	0	6.66	0.374	1.172	1.068	0.468	-
5 885	177	802.11a	20	6	19	18.39	0.13	Left	MIMO	93.6	0	19.9	1.80	1.172	1.068	2.253	C1
5 845	169	802.11a	20	6	19	18.14	0.12	Left	MIMO	93.6	0	22.2	1.46	1.239	1.068	1.932	-
5 865	173	802.11a	20	6	19	18.08	0.14	Left	MIMO	93.6	0	24.9	1.64	1.247	1.068	2.185	-
5 885	177	802.11a	20	6	19	18.39	0.00	Right	MIMO	93.6	0	0.48	0.028	1.172	1.068	0.035	-
5 885	177	802.11a	20	6	19	18.39	0.10	Top	MIMO	93.6	0	2.63	0.203	1.172	1.068	0.254	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Hand 4.0 W/kg Averaged over 10 gram					

NFC Phablet SAR _10g							
Frequency	Mode	Data Rate	Power Drift	Test Position	Distance	Meas. SAR	Plot No.
MHz		(Kbps)	(dB)		(mm)	(W/kg)	
13.56	NFC (Type A)	106	-0.18	Rear	0	0.03	C2
13.56	NFC (Type B)	106	0.16	Rear	0	0.03	-
13.56	NFC (Type F)	106	0	Rear	0	0	-
13.56	NFC (Type A)	106	0	Front	0	0	-
13.56	NFC (Type A)	106	0	Left	0	0	-
13.56	NFC (Type A)	106	0	Top	0	0	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population			Hand 4.0 W/kg Averaged over 10 gram				

13.5 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D04v01.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency Band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspotoperation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.

GSM/GPRS Test Notes:

1. This EUT'S GSM and GPRS device class is B.
2. This device supports GPRS VOIP in the head and the body-worn configurations therefore GPRS was additionally evaluated for head and body-worn compliance.
3. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
4. Per FCC KDB 447498 D04v01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.

UMTS Notes:

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D04v01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0 for some modes.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S subframes using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. Per KDB 941225 D05Av01r02, SAR for LTE Carrier Aggregation operations was not needed because the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink CA was not activated.
9. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.
10. SAR test reduction is applied using the following criteria:
Start with the largest channel Bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel Bandwidths is not required because the reported SAR for the highest channel Bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel Bandwidth.

NR Notes:

1. This device supports SA and NSA mode for NR implementation. In EN-DC Mode, NR operate with the LTE Bands shown in the NR FR1 checklist acting as anchor Bands.
2. Due to Limitations of the SAR measurement equipment, SAR testing for NR and LTE anchor Bands was performed separately using test mode (FTM) software.
3. More detailed specifications of the NR Bands are contained in the Technical description document.
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power was evaluated for SAR tests.
6. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

WLAN Notes:

1. For held-to-ear and hotspot operations, the initial test position procedures were applied. For initial test position, the highest extrapolated peak SAR will be used. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g SAR and ≤ 1.0 W/kg for 10g SAR, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR results is ≤ 0.8 W/kg for 1g SAR and ≤ 2.0 W/kg for 10g SAR or all test position are measured.
2. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHz WiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR.
3. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHz WiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode was not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g SAR and less than 3.0 W/kg for 10 g SAR.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel Bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

Bluetooth Notes:

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests mode type. Per October 2016 TCBC Workshop Notes, the reported SAR was scaled to 100% transmission duty factor to determine compliance. Please see sec.11 for the time-domain plot and calculation for duty factor of the device.
2. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

14. Simultaneous SAR Analysis

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is $\leq 1.6 \text{ W/kg}$ for 1g SAR and $\leq 4 \text{ W/kg}$ for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

This device is enabled with S.LSI Time average SAR algorithm with pre-defined sub6 antenna groups (AG0 and AG1). Simultaneous transmission analysis is performed per antenna groups. Section 14.2 contains analysis to demonstrate the AG0 and AG1 are operate mutually exclusive. Additional analysis is provided below to show compliance between AG0 and AG1.

The simultaneous transmission analysis of each antenna group and WLAN/BT was evaluated based on the maximum Reported SAR of the antenna in each Antenna group and the nearest y-axis coordinate of each antenna Group and WLAN/BT

If the sum result with each antenna exceeds the FCC SAR limit of 1.6 W/kg 1g, 4.0 W/kg 10g, the SPLSR was re-evaluated according to FCC KDB 447498 D01v06 4.3.2.

14.1 Sub6 Antenna Groups

S.LSI Time average SAR(TAS) algorithm operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating either of below conditions for all exposure scenarios:

Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside

TAS is less than regulatory limits. This condition must be demonstrated for all antenna combinations of sub6 AGs.

This device supports two sub6 AG: AG0 and AG1, with AG0 having 4 antennas (Main1 Ant, Main2 Ant, Main3 Ant, Main4 Ant.) and AG1 having 3 antenna(Sub1 Ant, Sub2 Ant, Sub5 Ant). The conditions are verified through the following criterias

The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported WWAN technologies and frequency bands for each exposure condition Demonstrate that the sum of reported SAR of antenna from each of the sub6 AGs and the sum of RF exposure of TAS should be less than the regulatory limit as given below for each RSI.

Obtain the worst-case reported SAR for each antenna group (i.e., maximum reported SAR at Plimit (or Pmax when Plimit > Pmax) out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure, and demonstrate that the sum of these RF exposures meets

$[\text{Max.SAR.AG0} + \text{Max.SAR.AG1}] + [\text{Max.WLAN} + \text{Max.Bluetooth}] \leq 1.6$ (for 1g SAR or 4.0 for 10g)

AG0,AG1,WLAN/BT are described in th table below.

AG0	
Main1	GSM850, GSM1900, WCDMA 2/4/5, LTE 12/13/25/26/66, NR n5/n25/n66
Main2	LTE 41, NR n41 SRS1
Main3	NR n77 SRS1
Main4	NR n41 SRS3, n77 SRS3

AG1	
Sub1	GSM850, WCDMA 5, LTE 26, NR n5, NR n41 SRS2
Sub2	LTE 2/66, NR n25/n41/n66/n77
Sub5	NR n77 SRS2
WLAN/BT	
Sub 1	WLAN 5GHz/6GHz
Sub 4	WLAN 2.4GHz,5GHz,6GHz, Bluetooth
Sub 6	WLAN 2.4GHz, Bluetooth

14.2 Head SAR Simultaneous Transmission Analysis

AG0					
Position	Main1	Main2	Main3	Main4	Max
Left Touch	0.138	0.132	0.086	0	0.138
Left Tilt	0.067	0.015	0.093	0	0.093
Right Touch	0.125	0.051	0.198	0	0.198
Right Tilt	0.091	0.023	0.191	0	0.191

AG1				
Position	Sub1	Sub2	Sub5	Max
Left Touch	0.761	0.545	0.270	0.761
Left Tilt	0.669	0.646	0.027	0.669
Right Touch	0.552	0.790	0.507	0.790
Right Tilt	0.463	1.025	0.041	1.025

14.2.1 WWAN+WLAN 2.4GHz + BT Simultaneous SAR Head Case

WLAN/BT			
Position	WLAN 2.4GHz Sub6(Ant 2)	BT Sub4(Ant 1)	Sum
Left Touch	0.499	0.037	0.536
Left Tilt	0.070	0.049	0.119
Right Touch	0.327	0.223	0.560
Right Tilt	0.031	0.159	0.190

WWAN +2.4GHz + BT Simultaneous SAR Results				
Position	AG0 Max	AG1 Max	WLAN Sub6(Ant 2) + BT Sub 4(Ant1)	∑ AG0+AG1+WLAN/BT
Left Touch	0.138	0.761	0.536	1.435
Left Tilt	0.093	0.669	0.119	0.881
Right Touch	0.198	0.790	0.560	1.548
Right Tilt	0.191	1.025	0.190	1.406

14.2.2 WWAN+WLAN 5GHz/6GHz + BT Simultaneous SAR Head Case

WLAN 5GHz/6GHz				
Position	Sub 1(Ant2) Max	Sub4(Ant1) Max	MIMO Max	Max
Left Touch	0.044	0.096	0.082	0.096
Left Tilt	0.045	0.033	0.118	0.118
Right Touch	0.336	0.069	0.297	0.336
Right Tilt	0.131	0.060	0.172	0.172

BT			
Position	BT Sub4(Ant 1)	BT Sub 6(Ant 2)	Max
Left Touch	0.037	0.221	0.221
Left Tilt	0.049	0.026	0.049
Right Touch	0.223	0.112	0.223
Right Tilt	0.159	0.020	0.159

WWAN +5GHz/6GHz + BT Simultaneous SAR Results				
Position	AG0 Max	AG1 Max	WLAN 5GHz/6GHz + BT	$\sum$ AG0+AG1+WLAN/BT
Left Touch	0.138	0.761	0.317	1.216
Left Tilt	0.093	0.669	0.167	0.929
Right Touch	0.198	0.790	0.559	1.547
Right Tilt	0.191	1.025	0.331	1.547

14.2.3 WWAN+WLAN Simultaneous SAR Head Case

WLAN			
Position	WLAN 2.4GHz	WLAN 5GHz/6GHz	Max
Left Touch	0.542	0.082	0.542
Left Tilt	0.131	0.118	0.131
Right Touch	0.391	0.366	0.391
Right Tilt	0.344	0.172	0.344

WWAN + WLAN Simultaneous SAR Results				
Position	AG0 Max	AG1 Max	WLAN Max	$\sum$ AG0+AG1+WLAN
Left Touch	0.138	0.761	0.542	1.441
Left Tilt	0.093	0.669	0.131	0.893
Right Touch	0.198	0.790	0.391	1.379
Right Tilt	0.191	1.025	0.344	1.560

14.3 BodyWorn SAR Simultaneous Transmission Analysis.

AG0					
Position	Main1	Main2	Main3	Main4	Max
Rear	0.631	0.518	0.040	0.228	0.631
Front	0.519	0.303	0.031	0.015	0.519

AG1				
Position	Sub1	Sub2	Sub5	Max
Rear	0.793	0.360	0.205	0.793
Front	0.564	0.309	0.088	0.564

14.3.1 WWAN+WLAN 2.4GHz + BT Simultaneous SAR BodyWorn Case

WLAN/BT			
Position	WLAN 2.4GHz Sub6(Ant 2)	BT Sub4(Ant 1)	Sum
Rear	0.302	0.243	0.545
Front	0.302	0.158	0.460

WWAN +2.4GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Sub6(Ant 2) + BT Sub 4(Ant1)	ΣAG0+AG1+ WLAN/BT	Group analysis SPLSR
Rear	0.631	0.793	0.545	1.969	0.019
Front	0.519	0.564	0.460	1.543	X

WWAN +2.4GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Sub6(Ant 2) + BT Sub 4(Ant1)	ΣAG0+ WLAN/BT	Σ AG1+ WLAN/BT
Rear	0.631	0.793	0.545	1.176	1.338

14.3.2 WWAN+WLAN 5GHz/6GHz + BT Simultaneous SAR BodyWorn Case

WLAN 5GHz/6GHz				
Position	Sub 1(Ant2) Max	Sub4(Ant1) Max	MIMO Max	Max
Rear	0.279	0.336	0.364	0.364
Front	0.012	0.109	0.117	0.117

BT			
Position	BT Sub4(Ant 1)	BT Sub 6(Ant 2)	Max
Rear	0.243	0.354	0.354
Front	0.158	0.222	0.222

WWAN +5GHz/6GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN 5GHz/6GHz + BT	Σ AG0+AG1+ WLAN/BT	Group analysis SPLSR
Rear	0.631	0.793	0.718	2.142	0.022
Front	0.519	0.564	0.339	1.422	X

WWAN +5GHz/6GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN 5GHz/6GHz + BT	$\sum$ AG0+WLAN/BT	$\sum$ AG1+WLAN/BT
Rear	0.631	0.793	0.718	1.349	1.511

14.3.3 WWAN+WLAN Simultaneous SAR BodyWorn Case

WLAN			
Position	WLAN 2.4GHz	WLAN 5GHz/6GHz	Max
Rear	0.391	0.364	0.391
Front	0.311	0.117	0.311

WWAN + WLAN Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Max	$\sum$ AG0+AG1+WLAN	Group analysis SPLSR
Rear	0.631	0.793	0.364	1.788	0.022
Front	0.519	0.564	0.117	1.200	X

WWAN + WLAN Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Max	$\sum$ AG0+WLAN	$\sum$ AG1+WLAN
Rear	0.631	0.793	0.364	0.995	1.157

14.4 Hotspot SAR Simultaneous Transmission Analysis

AG0					
Position	Main1	Main2	Main3	Main4	Max
Rear	0.631	0.518	0.040	0.228	0.631
Front	0.519	0.303	0.031	0.015	0.519
Left	0.149	0.681	0.374		0.681
Right	0.172			0.000	0.172
Top					0.000
Bottom	1.036	0.458	0.059	0.038	1.036

AG1				
Position	Sub1	Sub2	Sub5	Max
Rear	0.793	0.360	0.205	0.793
Front	0.564	0.309	0.088	0.564
Left		0.111	0.037	0.111
Right	0.658			0.658
Top	0.837	0.572		0.837
Bottom				0.000

14.4.1 WWAN+WLAN 2.4GHz + BT Simultaneous SAR Hotspot Case

WLAN/BT			
Position	WLAN 2.4G Sub6(Ant 2)	BT Sub4(Ant 1)	Sum
Rear	0.302	0.243	0.545
Front	0.302	0.158	0.460
Left		0.268	0.268
Right	0.064		0.064
Top	0.004	0.101	0.105
Bottom			

WWAN +2.4GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Sub6(Ant 2) + BT Sub 4(Ant1)	ΣAG0+AG1+ WLAN/BT	Group analysis SPLSR
Rear	0.631	0.793	0.545	1.969	0.019
Front	0.519	0.564	0.460	1.543	X
Left	0.681	0.111	0.268	1.060	X
Right	0.172	0.658	0.064	0.894	X
Top	0.000	0.837	0.105	0.942	X
Bottom	1.036	0.000	0.000	1.036	X

WWAN +2.4GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Sub6(Ant 2) + BT Sub 4(Ant1)	ΣAG0+ WLAN/BT	ΣAG1+ WLAN/BT
Rear	0.631	0.793	0.545	1.176	1.338

14.4.2 WWAN+WLAN 5GHz/6GHz + BT Simultaneous SAR Hotspot Case

WLAN 5GHz/6GHz				
Position	Sub 1(Ant2) Max	Sub4(Ant1) Max	MIMO Max	Max
Rear	0.279	0.336	0.364	0.364
Front	0.012	0.109	0.117	0.117
Left		0.489	0.380	0.489
Right	0.008		0.011	0.011
Top	0.072	0.090	0.106	0.106
Bottom				0.000

BT			
Position	BT Sub4(Ant 1)	BT Sub 6(Ant 2)	Max
Rear	0.243	0.354	0.354
Front	0.158	0.222	0.222
Left	0.268		0.268
Right		0.080	0.080
Top	0.101	0.003	0.101
Bottom			0.000

WWAN +5GHz/6GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN 5GHz/6GHz + BT	Σ AG0+AG1+WLAN/BT	Group analysis SPLSR
Rear	0.631	0.793	0.718	2.142	0.022
Front	0.519	0.564	0.339	1.422	X
Left	0.681	0.111	0.757	1.549	X
Right	0.172	0.658	0.091	0.921	X
Top	0.000	0.837	0.207	1.044	X
Bottom	1.036	0.000	0.000	1.036	X

WWAN +5GHz/6GHz + BT Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN 5GHz/6GHz + BT	Σ AG0+WLAN/BT	Σ AG1+WLAN/BT
Rear	0.631	0.793	0.718	1.349	1.511

14.4.3 WWAN+WLAN Simultaneous SAR Hotspot Case

WLAN			
Position	WLAN 2.4GHz	WLAN 5GHz/6GHz	Max
Rear	0.391	0.364	0.391
Front	0.311	0.117	0.311
Left	0.420	0.489	0.489
Right	0.067	0.011	0.067
Top	0.158	0.109	0.158
Bottom			0.000

WWAN + WLAN Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Max	Σ AG0+AG1+WLAN/BT	Group analysis SPLSR
Rear	0.631	0.793	0.391	1.815	0.022
Front	0.519	0.564	0.311	1.394	X
Left	0.681	0.111	0.489	1.281	X
Right	0.172	0.658	0.067	0.897	X
Top	0.000	0.837	0.158	0.995	X
Bottom	1.036	0.000	0.000	1.036	X

WWAN + WLAN Simultaneous SAR Results					
Position	AG0 Max	AG1 Max	WLAN Max	Σ AG0+WLAN	Σ AG1+WLAN
Rear	0.631	0.793	0.391	1.022	1.184

14.4.4 Phablet SAR Simultaneous Transmission Analysis

Position	WLAN5G	NFC	UWB	Summation
Rear	1.198	0.030	0.000	1.228
Front	0.835	0.030	0.000	0.865
Left	2.253	0.000	0.002	2.255
Right	0.066	0.000		0.066
Top	0.358	0.000	0.000	0.358
Bottom				

14.5 SAR to Peak Location Separation Ratio (SPLSR)

FCC KDB 447498 D01v06 General RF Exposure Guidance introduces a new formula for calculating the SAR a Peak Location Separation Ratio(SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR_i = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

SAR_1 is the highest measured or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR_2 is the highest measured of estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas, When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(X_1 - X_2)^2 + (Y_1 - Y_2)^2 + (Z_1 - Z_2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum 1-g of SAR > 1.6 W/kg and with the sum 10-g of SAR > 4 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i \leq 0.04 \text{ for 1g SAR and } (SAR_1 + SAR_2)^{1.5} / R_i \leq 0.1 \text{ for 10g SAR}$$

14.5.1 BodyWorn/Hotspot SPLSR Evaluation

Ant Group 0

Mode/Band	Antenna	X(mm)	Y(mm)	Z(mm)	Reported SAR [W/kg]
GSM1900	Main 1	-9.5	-75.0	-204.0	0.449
GSM850	Main 1	-2.5	-60.0	-206.0	0.316
WCDMA 2	Main 1	-24.5	-90.0	-204.0	0.520
WCDMA 4	Main 1	-24.5	-90.0	-204.0	0.597
WCDMA 5	Main 1	-17.5	-60.0	-206.0	0.355
LTE 12	Main 1	5.5	-70.0	-204.0	0.334
LTE 13	Main 1	5.5	-70.0	-203.0	0.330
LTE 25	Main 1	-9.5	-75.0	-206.0	0.334
LTE 26	Main 1	5.5	-70.0	-203.0	0.534
LTE 41	Main 2	21.0	-66.0	-204.0	0.518
LTE 66	Main 1	-9.5	-90.0	-205.0	0.378
NR n5	Main 1	-2.5	-75.0	-206.0	0.631
NR n25	Main 1	-17.5	-75.0	-206.0	0.308
NR n41 SRS1	Main 2	-7.0	-72.0	-210.0	0.099
NR n41 SRS3	Main 4	-31.0	-76.0	-210.0	0.108
NR n66	Main 1	-17.5	-95.0	-205.0	0.334
NR n77 SRS1	Main 3	13.0	-48.0	-204.0	0.040
NR n77 SRS3	Main 4	-35.0	-60.0	-205.0	0.228

Ant Group 1

Mode/Band	Antenna	X(mm)	Y(mm)	Z(mm)	Reported SAR [W/kg]
GSM850	Sub 1	-32.5	80.0	-206.0	0.793
WCDMA 5	Sub 1	-32.5	80.0	-206.0	0.718
LTE 2	Sub 2	5.5	75.0	-208.0	0.256
LTE 26	Sub 1	-17.0	80.0	-205.0	0.598
LTE 66	Sub 2	-9.5	75.0	-206.0	0.344
NR n5	Sub 1	-54.5	70.0	-204.0	0.355
NR n25	Sub 2	-2.5	70.0	-206.0	0.279
NR n41	Sub 2	-7.0	83.0	-210.0	0.259
NR n41 SRS2	Sub 1	-43.0	72.0	-210.0	0.144
NR n66	Sub 2	-2.5	75.0	-206.0	0.208
NR n77	Sub 2	1.0	66.0	-204.0	0.360
NR n77 SRS2	Sub 5	1.0	36.0	-204.0	0.101

Group analysis SPLSR

	AG0				AG1		
	Main1	Main 2	Main 3	Main 4	Sub1	Sub2	Sub5
Max Y-axis(mm)	-60.0	-66.0	-48.0	-60.0			
Max SAR(W/kg)	0.631	0.518	0.04	0.228			
Min Y-axis(mm)					70.0	66.0	36.0
Max SAR(W/kg)					0.793	0.36	0.101
Main 1 Distance					130.0	126.0	96.0
Main 1 SPLSR					0.013	0.008	0.007
Main 2 Distance					136.0	132.0	102.0
Main 2 SPLSR					0.011	0.006	0.005
Main 3 Distance					118.0	114.0	84.0
Main 3 SPLSR					0.006	0.002	0.001
Main 4 Distance					130.0	126.0	96.0
Main 4 SPLSR					0.008	0.004	0.002

15. SAR Measurement Variability and Uncertainty

In accordance with KDB procedure 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz, SAR additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency Band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement variability was assessed using the following procedures for each frequency Band:

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.
- 2) When the original highest measured 1g SAR is ≥ 0.80 W/kg or 10g SAR ≥ 2.0 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg for 1g SAR or ≥ 3.625 W/kg for 10g SAR (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg for 1g SAR or ≥ 3.75 W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. 1.08

Head SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 770	354000	NR FDD Band n66	Right Tilt (50RB, 0Offset)	0.833	0.823	1.01

Body / Hotspot SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 909.8	810	GSM 1900 (GPRS 1TX)	Bottom	0.847	0.839	1.01
1 712.4	1312	UMTS Band 4	Bottom	0.816	0.789	1.03
1 880	9400	UMTS Band 2	Bottom	0.906	0.903	1.00
1 905	26590	LTE FDD Band 25	Bottom	0.803	0.799	1.01

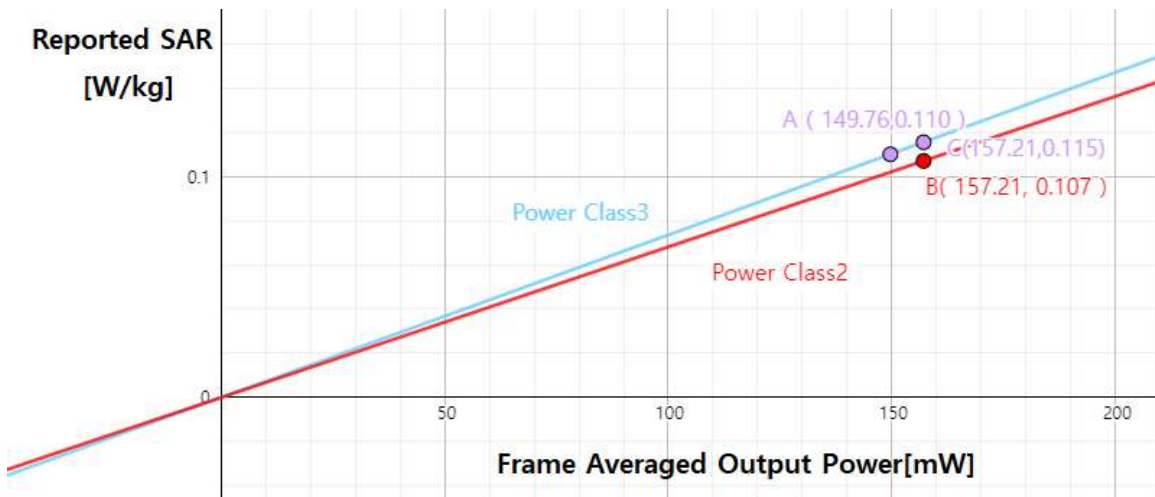
16. LTE TDD Band 41 Power Class 2 and Power class 3 Linearity

This Device Supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL Configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power class 3. SAR with power class 2 at the highest power and available duty factor was additionally performed for the power class 2 configuration with the Highest SAR for each exposure condition.

The linearity between the power class 3 and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

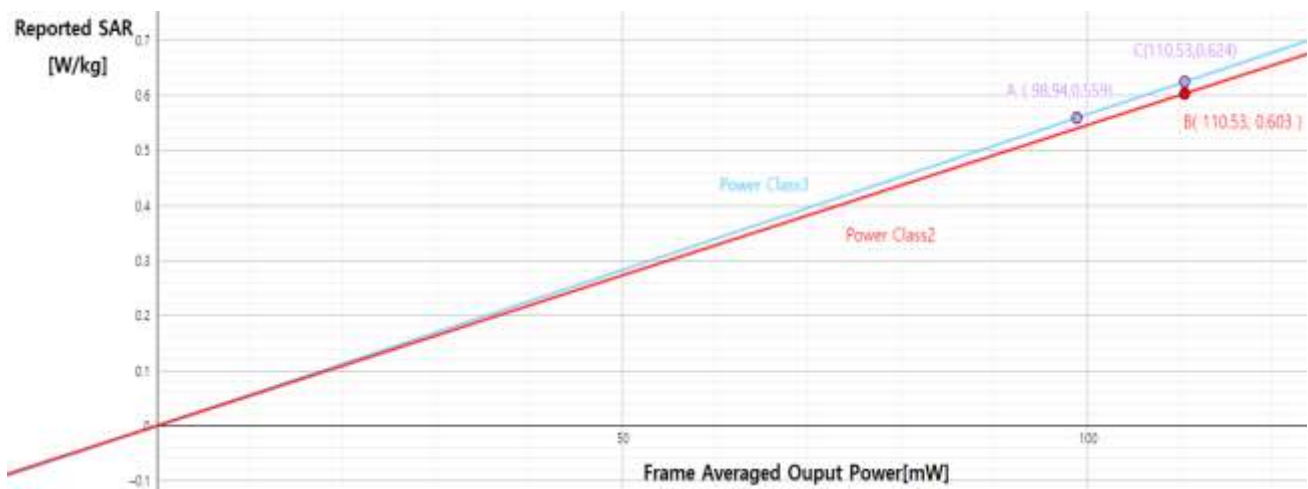
Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes as less than 10 % and all reported SAR values were < 1.4 W/kg.

LTE TDD Band 41 Head Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	24	26.5
Measured Output Power[dBm]	23.74	25.6
Reported SAR[W/kg]	0.11	0.107
Measured Power[mW]	236.59	363.08
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	149.76	157.21
% deviation from expected linearity		-7.34



LTE TDD Band 41 Body Linearity Data Table

	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24.6
Measured Output Power[dBm]	21.94	24.07
Reported SAR[W/kg]	0.559	0.603
Measured Power[mW]	156.31	255.27
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	98.94	110.53
% deviation from expected linearity		-3.44



17. Measurement Uncertainty

The measured SAR was <1.5 W/Kg for 1g SAR and <3.75 W/Kg For 10g SAR for all frequency Bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

18. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/5K3RA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/5K9GA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/59CHA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/5R4XF1/A/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/5SD0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/55B8A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/56W9A1/C/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F11/5K3RA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/5K9GA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/59CHA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/5R4XF1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/5SD0A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/55B8A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/56W9A1/A/01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1203 0309	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1338 1332	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0008	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	001729	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0306	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0602	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331936309	12/29/2022	Annual	12/29/2023
TESTO	175-H1/Thermometer	40331939309	12/29/2022	Annual	12/29/2023
TESTO	175-H1/Thermometer	40331915309	12/29/2022	Annual	12/29/2023
TESTO	175-H1/Thermometer	40332651310	12/29/2022	Annual	12/29/2023
TESTO	175-H1/Thermometer	40331949309	12/29/2022	Annual	12/29/2023
TESTO	608-H1/Thermometer	83348029	03/27/2023	Annual	03/27/2024
TESTO	608-H1/Thermometer	83348021	03/27/2023	Annual	03/27/2024
TESTO	608-H1/Thermometer	83406789	06/29/2023	Annual	06/29/2024
SPEAG	DAE4	869	03/23/2023	Annual	03/23/2024
SPEAG	DAE4	1686	05/23/2023	Annual	05/23/2024
SPEAG	DAE4	1464	06/16/2023	Annual	06/16/2024
SPEAG	DAE4	1687	07/18/2023	Annual	07/18/2024
SPEAG	DAE4	652	01/20/2023	Annual	01/20/2024
SPEAG	DAE4	504	01/10/2023	Annual	01/10/2024
SPEAG	DAE4	466	04/25/2023	Annual	04/25/2024
SPEAG	DAE4	1225	03/06/2023	Annual	03/06/2024
SPEAG	E-Field Probe EX3DV4	3076	07/18/2023	Annual	07/18/2024
SPEAG	E-Field Probe EX3DV4	7309	06/19/2023	Annual	06/19/2024
SPEAG	E-Field Probe EX3DV4	7732	06/20/2023	Annual	06/20/2024
SPEAG	E-Field Probe EX3DV4	7702	01/26/2023	Annual	01/26/2024
SPEAG	E-Field Probe EX3DV4	3797	01/24/2023	Annual	01/24/2024
SPEAG	E-Field Probe EX3DV4	7370	08/24/2023	Annual	08/24/2024
SPEAG	E-Field Probe EX3DV4	7654	05/24/2023	Annual	05/24/2024
SPEAG	E-Field Probe EX3DV4	3903	07/19/2023	Annual	07/19/2024
SPEAG	CLA13	1016	11/16/2022	Annual	11/16/2023
SPEAG	CLA13	1016	09/21/2023	Annual	09/21/2024
SPEAG	Dipole D750V3	1014	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D835V2	4d165	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D1800V2	2d015	05/17/2023	Annual	05/17/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	Dipole D1900V2	5d061	01/23/2023	Annual	01/23/2024
SPEAG	Dipole D2450V2	1049	04/25/2023	Annual	04/25/2024
SPEAG	Dipole D2600V2	1106	05/24/2023	Annual	05/24/2024
SPEAG	Dipole D3500V2	1040	01/22/2023	Annual	01/22/2024
SPEAG	Dipole D3700V2	1066	11/14/2022	Annual	11/14/2023
SPEAG	Dipole D3900V2	1019	05/19/2023	Annual	05/19/2024
SPEAG	Dipole D3900V2	1019	05/19/2023	Annual	05/19/2024
SPEAG	Dipole D5GHzV2	1317	05/17/2023	Annual	05/17/2024
Agilent	Power Meter E4419B	MY41291386	09/27/2022	Annual	09/27/2023
Agilent	Power Meter E4419B	MY41291386	09/21/2023	Annual	09/21/2024
Agilent	Power Meter N1911A	MY45101406	05/26/2023	Annual	05/26/2024
Agilent	Power Sensor 8481A	SG1091286	09/27/2022	Annual	09/27/2023
Agilent	Power Sensor 8481A	SG1091286	09/21/2023	Annual	09/21/2024
H.P	Power Sensor 8481A	MY41090675	09/27/2022	Annual	09/27/2023
H.P	Power Sensor 8481A	MY41090675	09/21/2023	Annual	09/21/2024
Agilent	Wideband Power Sensor N1921A	MY55220026	07/28/2023	Annual	07/28/2024
Agilent	11636B/Power Divider	58698	01/26/2023	Annual	01/26/2024
SPEAG	DAKS 3.5	1038	01/25/2023	Annual	01/25/2024
SPEAG	Vector Reflectometer	00141013	02/13/2023	Annual	02/13/2024
SPEAG	MXA Signal Analyzer	MY49100108	01/13/2023	Annual	01/13/2024
H.P	Network Analyzer /8753ES	JP39240221	01/02/2023	Annual	01/02/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/27/2022	Annual	09/27/2023
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/21/2023	Annual	09/21/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/27/2023	Annual	07/27/2024
R&S	Wireless Communication Test Set CMW500	115733	03/23/2023	Annual	03/23/2024
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/23/2023	Annual	03/23/2024
EMPOWER	RF Power Amplifier	1084	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1041D/C0508	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1011	09/27/2022	Annual	09/27/2023
EMPOWER	RF Power Amplifier	1011	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-15N	10453	09/27/2022	Annual	09/27/2023
MICRO LAB	LP Filter / LA-15N	10453	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-30N	-	09/27/2022	Annual	09/27/2023
MICRO LAB	LP Filter / LA-30N	-	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-60N	32011	09/27/2022	Annual	09/27/2023
MICRO LAB	LP Filter / LA-60N	32011	09/21/2023	Annual	09/21/2024
Agilent	Attenuator (3dB) 8693B	MY39260298	08/22/2023	Annual	08/22/2024
HP	Attenuator (3dB) 33340A	02427	08/22/2023	Annual	08/22/2024
HP	Attenuator (20dB) 8493C	09271	08/22/2023	Annual	08/22/2024
Agilent	Directional Bridge 86205A	3140A04581	04/25/2023	Annual	04/25/2024
OSI	Power Divider	#3	05/26/2023	Annual	05/26/2024
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/07/2023	Annual	06/07/2024
HP	Dual Directional Coupler	16072	09/27/2022	Annual	09/27/2023
HP	Dual Directional Coupler	16072	09/21/2023	Annual	09/21/2024
Anritsu	Radio Communication Test Station MT8000A	6261987928	01/25/2023	Annual	01/25/2024
Anritsu	Radio Communication Test Station MT8000A	6262036812	12/07/2022	Annual	12/07/2023
Anritsu	Radio Communication Tester MT8820C	6201074225	01/25/2023	Annual	01/25/2024
Anritsu	Radio Communication Tester MT8820C	6200695605	03/23/2023	Annual	03/23/2024
Anritsu	Radio Communication Tester MT8821C	6201502997	05/26/2023	Annual	05/26/2024
Anritsu	Radio Communication Tester MT8821C	6262044720	12/07/2022	Annual	12/07/2023

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Anritsu	Radio Communication Tester MT8821C	6201664725	01/25/2023	Annual	01/25/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/26/2023	Annual	05/26/2024
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	01/25/2023	Annual	01/25/2024

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

19. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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[21] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) Mar. 2010.

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Appendix A. DUT Ant. Information & SETUP PHOTO

Please refer to test DUT Ant. Information & setup photo file no. as follows:

Report No.
HCT-SR-2310-FC009-P