

12. System Verification

12.1 Tissue Verification

The body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

Table for Head Tissue Verification

Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/07/2021	21.9	750H	705	0.886	43.198	0.889	42.174	-0.34	-0.34
			710	0.888	43.125	0.890	42.148	-0.22	-0.22
			750	0.900	42.554	0.893	41.940	0.78	1.46
12/01/2021	22.5	750H	705	0.870	43.268	0.889	42.174	-2.14	2.59
			710	0.874	43.193	0.890	42.148	-1.80	2.48
			750	0.901	42.596	0.893	41.940	0.90	1.56
12/02/2021	21.4	750H	750	0.905	42.554	0.893	41.940	1.34	1.46
			785	0.913	42.050	0.896	41.758	1.90	0.70
12/03/2021	21.3	750H	750	0.897	42.576	0.893	41.940	0.45	1.52
			785	0.917	42.074	0.896	41.758	2.34	0.76
12/15/2021	21.5	835H	820	0.926	41.289	0.899	41.577	3.00	-0.69
			835	0.938	41.057	0.900	41.500	4.22	-1.07
			850	0.951	40.856	0.916	41.500	3.82	-1.55
12/22/2021	21.6	835H	820	0.924	41.559	0.899	41.577	2.78	-0.04
			835	0.931	41.386	0.900	41.500	3.44	-0.27
			850	0.936	41.221	0.916	41.500	2.18	-0.67
12/06/2021	22.4	835H	820	0.925	41.922	0.899	41.577	2.89	0.83
			835	0.931	41.684	0.900	41.500	3.44	0.44
			850	0.933	41.512	0.916	41.500	1.86	0.03
12/21/2021	22.5	1800H	1710	1.307	41.582	1.348	40.144	-3.04	3.58
			1750	1.349	41.370	1.371	40.080	-1.60	3.22
			1800	1.397	41.170	1.400	40.000	-0.21	2.93
12/27/2021	23.1	1800H	1710	1.298	41.568	1.348	40.144	-3.71	3.55
			1750	1.326	41.398	1.371	40.080	-3.28	3.29
			1800	1.377	41.167	1.400	40.000	-1.64	2.92
12/16/2021	22.4	1900H	1850	1.418	38.980	1.400	40.000	1.29	-2.55
			1900	1.421	39.234	1.400	40.000	1.50	-1.92
			1910	1.419	39.310	1.400	40.000	1.36	-1.72
12/17/2021	21.9	1900H	1850	1.427	40.958	1.400	40.000	1.93	2.40
			1900	1.449	40.843	1.400	40.000	3.50	2.11
			1910	1.456	40.867	1.400	40.000	4.00	2.17
12/08/2021	21.4	1900H	1850	1.416	40.979	1.400	40.000	1.14	2.45
			1900	1.440	40.888	1.400	40.000	2.86	2.22
			1910	1.446	40.854	1.400	40.000	3.29	2.14

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/10/2021	21.6	2300H	2300	1.710	39.953	1.667	39.470	2.58	1.22
			2310	1.716	39.931	1.676	39.452	2.39	1.21
			2350	1.749	39.844	1.711	39.380	2.22	1.18
			2360	1.757	39.823	1.720	39.362	2.15	1.17
01/19/2022	21.6	2300H	2300	1.715	39.946	1.667	39.470	2.88	1.21
			2310	1.720	39.922	1.676	39.452	2.63	1.19
			2350	1.749	39.826	1.711	39.380	2.22	1.13
			2360	1.756	39.804	1.720	39.362	2.09	1.12
01/20/2022	21.5	2300H	2300	1.712	39.949	1.667	39.470	2.67	0.06
			2310	1.716	39.936	1.676	39.452	2.39	1.23
			2350	1.748	39.835	1.711	39.380	2.16	1.16
			2360	1.756	39.815	1.720	39.362	2.09	1.15
12/29/2021	21.8	2450H	2400	1.716	38.050	1.756	39.290	-2.28	-3.16
			2450	1.765	37.801	1.800	39.200	-1.94	-3.57
			2500	1.814	37.607	1.855	39.140	-2.21	-3.92
12/30/2021	21.9	2450H	2400	1.714	37.990	1.756	39.290	-2.39	-3.31
			2450	1.764	37.745	1.800	39.200	-2.00	-3.71
			2500	1.813	37.547	1.855	39.140	-2.26	-4.07
12/23/2021	22.0	2600H	2500	1.856	38.323	1.855	39.140	0.05	-2.09
			2550	1.902	38.107	1.909	39.070	-0.37	-2.46
			2600	1.955	37.833	1.964	39.010	-0.46	-3.02
12/24/2021	22.7	2600H	2500	1.855	38.382	1.855	39.140	0.00	-1.94
			2600	1.954	37.901	1.964	39.010	-0.51	-2.84
			2690	2.061	37.599	2.062	38.894	-0.05	-3.33
01/11/2022	19.2	3500H-3700H	3500	2.965	37.941	2.913	37.930	1.79	0.03
			3550	2.929	37.223	2.964	37.870	-1.18	-1.71
			3650	3.057	37.404	3.066	37.760	-0.29	-0.94
			3700	3.144	37.396	3.118	37.770	+0.08	-0.01

Table for Head Tissue Verification

Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/03/2022	18.5	5180H-5320H	5180	4.569	37.011	4.635	36.010	-1.42	2.78
			5250	4.817	36.757	4.706	35.930	+2.36	2.30
			5280	4.658	35.880	4.737	35.894	-1.67	-0.04
			5320	4.697	36.734	4.778	35.846	-1.70	2.48
01/04/2022	19.5	5500H-5600H	5500	4.905	36.503	4.963	35.640	-1.17	2.42
			5600	5.048	36.385	5.065	35.530	-0.34	2.41
01/05/2022	20.3	5750H-5825H	5750	5.218	36.273	5.219	35.360	-0.02	2.58
			5800	5.265	36.317	5.270	35.300	-0.09	2.88
			5825	5.263	36.236	5.296	35.270	-0.62	2.74

* 5G NR Band

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/04/2022	21.2	750H	705	0.866	43.264	0.889	42.174	-2.13	2.47
			710	0.871	43.189	0.890	42.148	2.02	1.56
			750	0.911	42.596	0.893	41.940	3.04	1.12
01/05/2022	23.0	750H	705	0.916	42.645	0.889	42.174	3.15	1.07
			710	0.918	42.600	0.890	42.148	4.37	1.09
			750	0.932	42.399	0.893	41.940	1.89	-1.58
01/03/2022	21.2	835H	820	0.916	40.921	0.899	41.577	3.56	-1.90
			835	0.932	40.711	0.900	41.500	3.17	-2.44
			850	0.945	40.489	0.916	41.500	-2.59	2.58
01/12/2022	22.6	1800H	1710	1.299	41.703	1.348	40.144	-3.64	3.88
			1750	1.338	41.565	1.371	40.080	-2.41	3.71
			1800	1.391	41.341	1.400	40.000	-0.64	3.35
01/20/2022	20.7	1900H	1850	1.403	40.839	1.400	40.000	0.21	2.10
			1900	1.426	40.748	1.400	40.000	1.86	1.87
			1910	1.432	40.734	1.400	40.000	2.29	1.84
01/07/2022	20.7	2300H	2300	1.710	39.953	1.667	39.470	2.58	1.22
			2310	1.716	39.919	1.676	39.452	2.39	1.18
			2350	1.749	39.821	1.711	39.380	2.22	1.12
			2360	1.757	39.800	1.720	39.362	2.15	1.11
01/21/2021	20.9	2300H	2300	1.708	39.946	1.667	39.470	2.46	1.21
			2310	1.714	39.928	1.676	39.452	2.27	1.21
			2350	1.747	39.850	1.711	39.380	2.10	1.19
			2360	1.754	39.830	1.720	39.362	1.98	1.19
01/18/2022	23.3	2600H	2500	1.828	38.529	1.855	39.140	-1.46	-1.56
			2600	1.922	38.094	1.964	39.010	-2.14	-2.35
			2690	2.005	37.670	2.062	38.894	-2.76	-3.15
01/17/2022	21.0	2600H	2500	1.826	38.507	1.855	39.140	-1.56	-1.62
			2600	1.921	38.064	1.964	39.010	-2.19	-2.43
			2690	2.006	37.642	2.062	38.894	-2.72	-3.22
01/13/2022	20.0	3400H~3550	3400	2.870	38.731	2.810	38.040	2.14	1.82
			3500	2.927	38.544	2.913	37.930	0.48	1.62
			3550	2.958	38.422	2.964	37.870	-0.20	1.46
01/11/2022	20.7	3700H~3970	3700	3.217	38.222	3.118	37.700	3.18	1.38
			3750	3.264	38.241	3.169	37.640	3.00	1.60
			3800	3.308	38.263	3.220	37.590	2.73	1.79
			3900	3.385	38.149	3.233	37.470	4.70	1.81
			3970	3.445	37.942	3.394	37.390	1.50	1.48

* Extremity SAR

Table for Head Tissue Verification

Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/28/2021	21.2	1800H	1710	1.293	41.561	1.348	40.144	-4.08	3.53
			1750	1.328	41.392	1.371	40.080	-3.14	3.27
			1800	1.383	41.153	1.400	40.000	-1.21	2.88
01/13/2022	20.0	1800H	1710	1.297	41.731	1.348	40.144	-3.78	3.95
			1750	1.339	41.572	1.371	40.080	-2.33	3.72
			1800	1.393	41.345	1.400	40.000	-0.50	3.36
12/20/2021	21.6	1900H	1850	1.438	41.059	1.400	40.000	2.71	2.65
			1900	1.460	40.945	1.400	40.000	4.29	2.36
			1910	1.467	40.969	1.400	40.000	4.79	2.42
12/09/2021	22.5	1900H	1850	1.409	38.582	1.400	40.000	0.64	-3.55
			1900	1.413	38.846	1.400	40.000	0.93	-2.89
			1910	1.414	38.907	1.400	40.000	1.00	-2.73
01/21/2022	21.9	1900H	1850	1.408	40.789	1.400	40.000	0.57	1.97
			1900	1.430	40.728	1.400	40.000	2.14	1.82
			1910	1.433	40.694	1.400	40.000	2.36	1.74
01/19/2022	23.4	2600H	2500	1.869	38.869	1.855	39.140	0.75	-0.69
			2600	1.969	38.435	1.964	39.010	0.25	-1.47
			2690	2.053	38.021	2.062	38.894	-0.44	-2.24
01/14/2022	20.6	3400H~3550	3400	2.893	38.841	2.810	38.040	2.95	2.11
			3500	2.946	38.654	2.913	37.930	1.13	1.91
			3550	2.979	38.522	2.964	37.870	0.51	1.72
01/12/2022	22.6	3700H~3970	3700	3.117	37.784	3.118	37.700	-0.03	0.22
			3750	3.152	37.800	3.169	37.640	-0.54	0.43
			3800	3.183	37.822	3.220	37.590	-1.15	0.62
			3900	3.235	37.751	3.233	37.470	0.06	0.75
			3970	3.285	37.583	3.394	37.390	-3.21	0.52

12.2 System Verification

Input Power: 50 mW

Freq. [MHz]	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp. [°C]	Liquid Temp. [°C]	1 W Target SAR _{1g} (SPEAG) [W/kg]	50mW Measured SAR _{1g} [W/kg]	1 W Normalized SAR _{1g} [W/kg]	Deviation [%]	Limit [%]
750	12/07/2021	3972	1014	Head	22.0	21.9	8.55	0.441	8.82	+ 3.16	± 10
750	12/01/2021	3972		Head	22.6	22.5	8.55	0.443	8.86	+ 3.63	± 10
750	12/02/2021	3972		Head	21.5	21.4	8.55	0.443	8.86	+ 3.63	± 10
750	12/03/2021	3972		Head	21.4	21.3	8.55	0.441	8.82	+ 3.16	± 10
835	12/15/2021	3972	4d165	Head	21.6	21.5	9.68	0.501	10.02	+ 3.51	± 10
835	12/22/2021	3972		Head	21.7	21.6	9.68	0.494	9.88	+ 2.07	± 10
835	12/06/2021	3972		Head	22.5	22.4	9.68	0.489	9.78	+ 1.03	± 10
1 800	12/21/2021	3972	2d015	Head	22.6	22.5	38.8	1.86	37.2	- 4.12	± 10
1 800	12/27/2021	3972		Head	23.2	23.1	38.8	1.83	36.6	- 5.67	± 10
1 900	12/16/2021	3972	5d061	Head	22.5	22.4	41.2	2.01	40.2	- 2.43	± 10
1 900	12/17/2021	3972		Head	22.0	21.9	41.2	2.04	40.8	- 0.97	± 10
1 900	12/08/2021	3972		Head	21.5	21.4	41.2	2.04	40.8	- 0.97	± 10
2 300	12/10/2021	7679	1010	Head	21.7	21.6	49.5	2.50	50.0	+ 1.01	± 10
2 300	01/19/2022	7679		Head	21.7	21.6	49.5	2.51	50.2	+ 1.41	± 10
2 300	01/20/2022	7679		Head	21.6	21.5	49.5	2.52	50.4	+ 1.82	± 10
2 450	12/29/2021	3972	965	Head	21.9	21.8	53.3	2.55	51.0	- 4.32	± 10
2 450	12/30/2021	3972		Head	22.0	21.9	53.3	2.55	51.0	- 4.32	± 10
2 600	12/23/2021	3972	1106	Head	22.1	22.0	56.3	2.84	56.8	+ 0.89	± 10
2 600	12/24/2021	3972		Head	22.8	22.7	56.3	2.85	57.0	+ 1.24	± 10
3 500	01/11/2022	7680	1040	Head	19.3	19.2	66.3	3.49	69.8	+ 5.28	± 10
3 700	01/11/2022	7680	1105	Head	19.3	19.2	66.6	3.37	67.4	+ 1.66	± 10
5 250	01/03/2022	7680	1107	Head	18.6	18.5	80.6	4.16	83.2	+ 3.23	± 10
5 600	01/04/2022	7680		Head	19.6	19.5	84.2	3.96	79.2	- 5.94	± 10
5 750	01/05/2022	7680		Head	20.4	20.3	80.9	4.31	86.2	+ 6.55	± 10

* 5G NR Band

Input Power: 50 mW

Freq. [MHz]	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp. [°C]	Liquid Temp. [°C]	1 W Target SAR _{1g} (SPEAG) [W/kg]	50mW Measured SAR _{1g} [W/kg]	1 W Normalized SAR _{1g} [W/kg]	Deviation [%]	Limit [%]
750	01/04/2022	3972	1014	Head	21.3	21.2	8.55	0.435	8.70	+ 1.75	± 10
750	01/05/2022	3972		Head	23.1	23.0	8.55	0.441	8.82	+ 3.16	± 10
835	01/03/2022	3972	4d165	Head	21.3	21.2	9.68	0.507	10.14	+ 4.75	± 10
1 800	01/12/2022	3972	2d015	Head	22.7	22.6	38.8	1.94	38.8	+ 0.00	± 10
1 900	01/20/2022	3972	5d061	Head	20.8	20.7	41.2	2.03	40.6	- 1.46	± 10
2 300	01/07/2022	3076	1010	Head	20.8	20.7	49.5	2.48	49.6	+ 0.20	± 10
2 300	01/21/2021	3076		Head	21.0	20.9	49.5	2.51	50.2	+ 1.41	± 10
2 600	01/18/2022	3903	1106	Head	23.4	23.3	56.3	2.90	58.0	+ 3.02	± 10
2 600	01/17/2022	3903	1106	Head	21.1	21.0	56.3	2.90	58.0	+ 3.02	± 10
3 500	01/13/2022	7655	1040	Head	20.1	20.0	66.3	3.52	70.4	+ 6.18	± 10
3 700	01/11/2022	7655	1105	Head	20.8	20.7	66.6	3.42	68.4	+ 2.70	± 10
3 900	01/11/2022	7655	1019	Head	20.8	20.7	70.4	3.41	68.2	- 3.13	± 10

System Verification Results – Extremity SAR

Input Power: 50 mW

Freq. [MHz]	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp. [°C]	Liquid Temp. [°C]	1 W Target SAR _{10g} (SPEAG) [W/kg]	50mW Measured SAR _{10g} [W/kg]	1 W Normalized SAR _{10g} [W/kg]	Deviation [%]	Limit [%]
1 800	12/28/2021	3972	2d015	Head	21.3	21.2	20.0	0.995	19.9	- 0.50	± 10
1 800	01/13/2022	3972		Head	20.1	20.0	20.0	0.945	18.9	- 5.50	± 10
1 900	12/20/2021	3972	5d061	Head	21.7	21.6	21.4	1.07	21.4	+ 0.00	± 10
1 900	12/09/2021	3972		Head	22.6	22.5	21.4	1.05	21.0	- 1.87	± 10
1 900	01/21/2022	3972		Head	22.0	21.9	21.4	0.985	19.7	- 7.94	± 10
2 600	01/19/2022	3903	1106	Head	23.5	23.4	25.2	1.30	26.0	+ 3.17	± 10
3 500	01/14/2022	7655	1040	Head	20.7	20.6	24.9	1.27	25.4	+ 2.01	± 10
3 700	01/12/2022	7655	1105	Head	22.7	22.6	24.1	1.16	23.2	- 3.73	± 10
3 900	01/12/2022	7655	1019	Head	22.7	22.6	24.3	1.21	24.2	- 0.41	± 10
5 250	01/03/2022	7680	1107	Head	18.6	18.5	23.2	1.19	23.8	+ 2.59	± 10
5 600	01/04/2022	7680		Head	19.6	19.5	24.2	1.17	23.4	- 3.31	± 10

12.3 System Verification Procedure

SAR measurement was prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at each frequency band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

Note;

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

13. SAR Test Data Summary

13.1 SAR Measurement Results

GSM 850 Head SAR – Main #1 Ant.											
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
836.6	190	GSM	33.5	32.05	-0.14	Left Touch	1:8.3	0.096	1.396	0.134	-
836.6	190	GSM	33.5	32.05	0.02	Left Tilt	1:8.3	0.064	1.396	0.089	-
836.6	190	GSM	33.5	32.05	0.15	Right Touch	1:8.3	0.155	1.396	0.216	-
836.6	190	GSM	33.5	32.05	-0.10	Right Tilt	1:8.3	0.064	1.396	0.089	-
836.6	190	GPRS 3Tx	29.0	28.21	-0.18	Left Touch	1:2.77	0.125	1.199	0.150	-
836.6	190	GPRS 3Tx	29.0	28.21	-0.01	Left Tilt	1:2.77	0.083	1.199	0.100	-
836.6	190	GPRS 3Tx	29.0	28.21	-0.15	Right Touch	1:2.77	0.189	1.199	0.227	1
836.6	190	GPRS 3Tx	29.0	28.21	0.01	Right Tilt	1:2.77	0.081	1.199	0.097	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram					

GSM 1900 Head SAR- Main #1 Ant.											
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
1 880.0	661	GSM	30.5	30.41	0.13	Left Touch	1:8.3	0.019	1.021	0.019	-
1 880.0	661	GSM	30.5	30.41	0.14	Left Tilt	1:8.3	0.017	1.021	0.017	-
1 880.0	661	GSM	30.5	30.41	0.14	Right Touch	1:8.3	0.032	1.021	0.033	-
1 880.0	661	GSM	30.5	30.41	0.01	Right Tilt	1:8.3	0.014	1.021	0.014	-
1 880.0	661	GPRS 4Tx	25.5	25.13	-0.05	Left Touch	1:2.07	0.019	1.089	0.021	-
1 880.0	661	GPRS 4Tx	25.5	25.13	0.13	Left Tilt	1:2.07	0.021	1.089	0.023	-
1 880.0	661	GPRS 4Tx	25.5	25.13	0.15	Right Touch	1:2.07	0.042	1.089	0.046	2
1 880.0	661	GPRS 4Tx	25.5	25.13	-0.04	Right Tilt	1:2.07	0.021	1.089	0.023	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram					

UMTS Band 5 Head SAR- Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
826.4	4132	RMC	25.0	24.16	-0.17	Left Touch	1:1	0.125	1.213	0.152	-
826.4	4132	RMC	25.0	24.16	-0.03	Left Tilt	1:1	0.068	1.213	0.082	-
826.4	4132	RMC	25.0	24.16	0.02	Right Touch	1:1	0.191	1.213	0.232	3
826.4	4132	RMC	25.0	24.16	0.13	Right Tilt	1:1	0.076	1.213	0.092	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram					

UMTS Band 4 Head SAR- Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
1 732.4	1412	RMC	25.0	23.90	0.12	Left Touch	1:1	0.068	1.288	0.088	-
1 732.4	1412	RMC	25.0	23.90	0.12	Left Tilt	1:1	0.052	1.288	0.067	-
1 732.4	1412	RMC	25.0	23.90	0.19	Right Touch	1:1	0.088	1.288	0.113	4
1 732.4	1412	RMC	25.0	23.90	0.18	Right Tilt	1:1	0.042	1.288	0.054	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram					

UMTS Band 2 Head SAR- Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
1 880.0	9400	RMC	25.0	24.36	-0.18	Left Touch	1:1	0.078	1.159	0.090	-
1 880.0	9400	RMC	25.0	24.36	0.04	Left Tilt	1:1	0.047	1.159	0.054	-
1 880.0	9400	RMC	25.0	24.36	0.17	Right Touch	1:1	0.094	1.159	0.109	5
1 880.0	9400	RMC	25.0	24.36	0.11	Right Tilt	1:1	0.041	1.159	0.048	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram					

LTE Band 7 Head SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 560	21350	QPSK	20	24.0	23.81	-0.15	Left Cheek	0	1	0	1:1	0.202	1.045	0.211	6
2 560	21350	QPSK	20	23.0	22.75	0.05	Left Cheek	1	50	0	1:1	0.192	1.059	0.203	-
2 560	21350	QPSK	20	24.0	23.81	0.10	Left Tilt	0	1	0	1:1	0.101	1.045	0.106	-
2 560	21350	QPSK	20	23.0	22.75	0.18	Left Tilt	1	50	0	1:1	0.084	1.059	0.089	-
2 560	21350	QPSK	20	24.0	23.81	-0.15	Right Cheek	0	1	0	1:1	0.159	1.045	0.166	-
2 560	21350	QPSK	20	23.0	22.75	0.14	Right Cheek	1	50	0	1:1	0.136	1.059	0.144	-
2 560	21350	QPSK	20	24.0	23.81	-0.02	Right Tilt	0	1	0	1:1	0.120	1.045	0.125	-
2 560	21350	QPSK	20	23.0	22.75	0.09	Right Tilt	1	50	0	1:1	0.101	1.059	0.107	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE Band 12 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
707.5	23095	QPSK	10	25.0	23.94	-0.10	Left Cheek	0	1	0	1:1	0.103	1.276	0.131	-
707.5	23095	QPSK	10	24.0	23.02	-0.15	Left Cheek	1	25	0	1:1	0.082	1.253	0.103	-
707.5	23095	QPSK	10	25.0	23.94	-0.02	Left Tilt	0	1	0	1:1	0.062	1.276	0.079	-
707.5	23095	QPSK	10	24.0	23.02	0.01	Left Tilt	1	25	0	1:1	0.051	1.253	0.064	-
707.5	23095	QPSK	10	25.0	23.94	-0.04	Right Cheek	0	1	0	1:1	0.148	1.276	0.189	7
707.5	23095	QPSK	10	24.0	23.02	0.05	Right Cheek	1	25	0	1:1	0.121	1.253	0.152	-
707.5	23095	QPSK	10	25.0	23.94	-0.09	Right Tilt	0	1	0	1:1	0.065	1.276	0.083	-
707.5	23095	QPSK	10	24.0	23.02	0.08	Right Tilt	1	25	0	1:1	0.054	1.253	0.068	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE Band 13 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
782	23230	QPSK	10	25.0	23.78	-0.06	Left Cheek	0	1	0	1:1	0.154	1.324	0.204	-
782	23230	QPSK	10	24.0	22.92	-0.02	Left Cheek	1	25	0	1:1	0.128	1.282	0.164	-
782	23230	QPSK	10	25.0	23.78	0.06	Left Tilt	0	1	0	1:1	0.110	1.324	0.146	-
782	23230	QPSK	10	24.0	22.92	0.04	Left Tilt	1	25	0	1:1	0.089	1.282	0.114	-
782	23230	QPSK	10	25.0	23.78	-0.07	Right Cheek	0	1	0	1:1	0.228	1.324	0.302	8
782	23230	QPSK	10	24.0	22.92	-0.07	Right Cheek	1	25	0	1:1	0.189	1.282	0.242	-
782	23230	QPSK	10	25.0	23.78	-0.09	Right Tilt	0	1	0	1:1	0.106	1.324	0.140	-
782	23230	QPSK	10	24.0	22.92	-0.03	Right Tilt	1	25	0	1:1	0.086	1.282	0.110	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE Band 14 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
793	23330	QPSK	10	25.0	23.63	-0.14	Left Cheek	0	1	0	1:1	0.148	1.371	0.203	-
793	23330	QPSK	10	24.0	22.80	-0.10	Left Cheek	1	25	0	1:1	0.127	1.318	0.167	-
793	23330	QPSK	10	25.0	23.63	-0.05	Left Tilt	0	1	0	1:1	0.104	1.371	0.143	-
793	23330	QPSK	10	24.0	22.80	0.05	Left Tilt	1	25	0	1:1	0.086	1.318	0.113	-
793	23330	QPSK	10	25.0	23.63	-0.18	Right Cheek	0	1	0	1:1	0.230	1.371	0.315	9
793	23330	QPSK	10	24.0	22.80	-0.19	Right Cheek	1	25	0	1:1	0.187	1.318	0.247	-
793	23330	QPSK	10	25.0	23.63	-0.03	Right Tilt	0	1	0	1:1	0.102	1.371	0.140	-
793	23330	QPSK	10	24.0	22.80	-0.06	Right Tilt	1	25	0	1:1	0.082	1.318	0.108	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE Band 25 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
1 905	26590	QPSK	20	24.5	23.34	-0.14	Left Cheek	0	1	49	1:1	0.056	1.306	0.073	-
1 905	26590	QPSK	20	23.5	22.50	0.15	Left Cheek	1	50	25	1:1	0.044	1.259	0.055	-
1 905	26590	QPSK	20	24.5	23.34	-0.04	Left Tilt	0	1	49	1:1	0.043	1.306	0.056	-
1 905	26590	QPSK	20	23.5	22.50	0.06	Left Tilt	1	50	25	1:1	0.033	1.259	0.042	-
1 905	26590	QPSK	20	24.5	23.34	0.18	Right Cheek	0	1	49	1:1	0.068	1.306	0.089	10
1 905	26590	QPSK	20	23.5	22.50	-0.07	Right Cheek	1	50	25	1:1	0.051	1.259	0.064	-
1 905	26590	QPSK	20	24.5	23.34	0.17	Right Tilt	0	1	49	1:1	0.039	1.306	0.051	-
1 905	26590	QPSK	20	23.5	22.50	0.12	Right Tilt	1	50	25	1:1	0.034	1.259	0.043	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE Band 26 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
831.5	26865	QPSK	15	24.7	23.62	-0.17	Left Cheek	0	1	0	1:1	0.107	1.282	0.137	-
831.5	26865	QPSK	15	23.7	22.81	-0.10	Left Cheek	1	36	0	1:1	0.090	1.227	0.110	-
831.5	26865	QPSK	15	24.7	23.62	-0.01	Left Tilt	0	1	0	1:1	0.064	1.282	0.082	-
831.5	26865	QPSK	15	23.7	22.81	0.08	Left Tilt	1	36	0	1:1	0.052	1.227	0.064	-
831.5	26865	QPSK	15	24.7	23.62	-0.12	Right Cheek	0	1	0	1:1	0.159	1.282	0.204	11
831.5	26865	QPSK	15	23.7	22.81	0.19	Right Cheek	1	36	0	1:1	0.134	1.227	0.164	-
831.5	26865	QPSK	15	24.7	23.62	-0.17	Right Tilt	0	1	0	1:1	0.074	1.282	0.095	-
831.5	26865	QPSK	15	23.7	22.81	-0.06	Right Tilt	1	36	0	1:1	0.063	1.227	0.077	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE Band 30 Head SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 310	27710	QPSK	10	24.0	22.65	-0.05	Left Cheek	0	1	0	1:1	0.088	1.365	0.120	-
2 310	27710	QPSK	10	23.0	21.97	0.00	Left Cheek	1	25	0	1:1	0.093	1.268	0.118	12
2 310	27710	QPSK	10	24.0	22.65	0.10	Left Tilt	0	1	0	1:1	0.043	1.365	0.059	-
2 310	27710	QPSK	10	23.0	21.97	-0.13	Left Tilt	1	25	0	1:1	0.045	1.268	0.057	-
2 310	27710	QPSK	10	24.0	22.65	-0.17	Right Cheek	0	1	0	1:1	0.043	1.365	0.059	-
2 310	27710	QPSK	10	23.0	21.97	0.08	Right Cheek	1	25	0	1:1	0.042	1.268	0.053	-
2 310	27710	QPSK	10	24.0	22.65	-0.09	Right Tilt	0	1	0	1:1	0.028	1.365	0.038	-
2 310	27710	QPSK	10	23.0	21.97	0.07	Right Tilt	1	25	0	1:1	0.025	1.268	0.032	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head- 1.6 W/kg Averaged over 1 gram								

LTE Band 40 (Lower) Head SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 310	38750	QPSK	10	9.0	8.81	0.13	Left Cheek	0	1	0	1:1.58	0.0065	1.045	0.007	13
2 310	38750	QPSK	10	9.0	8.86	0.18	Left Cheek	0	25	0	1:1.58	0.0063	1.033	0.006	-
2 310	38750	QPSK	10	9.0	8.81	0.15	Left Tilt	0	1	0	1:1.58	0.00366	1.045	0.004	-
2 310	38750	QPSK	10	9.0	8.86	0.11	Left Tilt	0	25	0	1:1.58	0.0036	1.033	0.004	-
2 310	38750	QPSK	10	9.0	8.81	0.10	Right Cheek	0	1	0	1:1.58	0.00495	1.045	0.005	-
2 310	38750	QPSK	10	9.0	8.86	0.13	Right Cheek	0	25	0	1:1.58	0.00427	1.033	0.004	-
2 310	38750	QPSK	10	9.0	8.81	0.09	Right Tilt	0	1	0	1:1.58	0.000205	1.045	0.0002	-
2 310	38750	QPSK	10	9.0	8.86	0.13	Right Tilt	0	25	0	1:1.58	0.00188	1.033	0.002	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE Band 40 (Upper) Head SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 355	39200	QPSK	10	9.0	8.54	0.12	Left Cheek	0	1	0	1:1.58	0.00481	1.112	0.006	-
2 355	39200	QPSK	10	9.0	8.26	0.10	Left Cheek	0	25	0	1:1.58	0.00521	1.186	0.006	14
2 355	39200	QPSK	10	9.0	8.54	0.10	Left Tilt	0	1	0	1:1.58	0.000642	1.112	0.001	-
2 355	39200	QPSK	10	9.0	8.26	0.18	Left Tilt	0	25	0	1:1.58	0.00011	1.186	0.000	-
2 355	39200	QPSK	10	9.0	8.54	0.10	Right Cheek	0	1	0	1:1.58	0.00237	1.112	0.003	-
2 355	39200	QPSK	10	9.0	8.26	0.10	Right Cheek	0	25	0	1:1.58	0.00382	1.186	0.005	-
2 355	39200	QPSK	10	9.0	8.54	0.14	Right Tilt	0	1	0	1:1.58	0.0027	1.112	0.003	-
2 355	39200	QPSK	10	9.0	8.26	0.15	Right Tilt	0	25	0	1:1.58	0.00258	1.186	0.003	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

LTE TDD Band 41 Head SAR Power Class 3 - Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MP R	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)		
Power Class 3																
2 593	40620	QPSK	20	24.0	23.43	-0.05	Left Cheek	0	1	0	1:1.58	0.117	1.140	0.133	-	
2 593	40620	QPSK	20	23.0	22.50	0.08	Left Cheek	1	50	0	1:1.58	0.091	1.122	0.102	-	
2 593	40620	QPSK	20	24.0	23.43	0.09	Left Tilt	0	1	0	1:1.58	0.041	1.140	0.047	-	
2 593	40620	QPSK	20	23.0	22.50	0.12	Left Tilt	1	50	0	1:1.58	0.034	1.122	0.038	-	
2 593	40620	QPSK	20	24.0	23.43	-0.14	Right Cheek	0	1	0	1:1.58	0.082	1.140	0.093	-	
2 593	40620	QPSK	20	23.0	22.50	0.03	Right Cheek	1	50	0	1:1.58	0.068	1.122	0.076	-	
2 593	40620	QPSK	20	24.0	23.43	0.11	Right Tilt	0	1	0	1:1.58	0.050	1.140	0.057	-	
2 593	40620	QPSK	20	23.0	22.50	0.10	Right Tilt	1	50	0	1:1.58	0.040	1.122	0.045	-	
Power Class 2 (HPUE)																
2 593	40620	QPSK	20	26.3	26.12	0.02	Left Cheek	0	1	0	1:2.31	0.159	1.042	0.166	-	
Up-link Carrier Aggregation Power Class 3 (41C)																
2 593	40620	QPSK	PCC	20	24.0	23.55	0.18	Left Cheek	0	1	0	1:1.58	0.169	1.109	0.187	-
2 573.2	40422	QPSK	SCC							1	99					
Up-link Carrier Aggregation Power Class 2 (HPUE) (41C)																
2593	40620	QPSK	PCC	20	26.3	26.07	-0.18	Left Cheek	0	1	0	1:2.31	0.215	1.054	0.227	15
2573.2	40422	QPSK	SCC							1	99					
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 LTE 41 Power Class 2(HPUE)

LTE TDD Band 48 Head SAR_RCV On - Sub #3 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	(W/kg)	(W/kg)						
3 690	56640	QPSK	20	19.5	19.29	-0.14	Left Cheek	0	1	49	1:1.58	0.184	1.050	0.193	-	
3 690	56640	QPSK	20	19.5	19.17	0.14	Left Cheek	0	50	49	1:1.58	0.191	1.079	0.206	-	
3 690	56640	QPSK	20	19.5	19.29	-0.11	Left Tilt	0	1	49	1:1.58	0.205	1.050	0.215	-	
3 690	56640	QPSK	20	19.5	19.17	-0.02	Left Tilt	0	50	49	1:1.58	0.192	1.079	0.207	-	
3 690	56640	QPSK	20	19.5	19.29	0.19	Right Cheek	0	1	49	1:1.58	0.531	1.050	0.557	-	
3 690	56640	QPSK	20	19.5	19.17	0.18	Right Cheek	0	50	49	1:1.58	0.526	1.079	0.568	-	
3 690	56640	QPSK	20	19.5	19.29	-0.11	Right Tilt	0	1	49	1:1.58	0.526	1.050	0.552	-	
3 690	56640	QPSK	20	19.5	19.17	0.11	Right Tilt	0	50	49	1:1.58	0.557	1.079	0.601	-	
3 560	55340	QPSK	20	19.5	18.41	0.13	Right Tilt	0	50	25	1:1.58	0.528	1.288	0.680	-	
3 603.3	55773	QPSK	20	19.5	18.31	0.03	Right Tilt	0	50	49	1:1.58	0.459	1.315	0.604	-	
3 646.7	56207	QPSK	20	19.5	18.71	0.15	Right Tilt	0	50	49	1:1.58	0.495	1.199	0.594	-	
3 690	56640	QPSK	20	19.5	19.13	0.13	Right Tilt	0	100	0	1:1.58	0.541	1.089	0.589	-	
3 690	56640	QPSK	20	19.5	19.10	0.18	Right Tilt	0	1	0	1:1.58	0.634	1.096	0.695	16	
Up-link Carrier Aggregation (48C)																
3 690	56640	QPSK	PCC	20	19.5	19.01	-0.10	Right Tilt	0	1	0	1:1.58	0.569	1.119	0.637	-
3 670.2	56442	QPSK	SCC	20						1	99					
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

* Power reduction condition during Receiver_ON

LTE Band 66 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
1 720	132072	QPSK	20	24.3	23.49	-0.06	Left Cheek	0	1	49	1:1	0.053	1.205	0.064	-
1 720	132072	QPSK	20	23.3	22.90	-0.15	Left Cheek	1	50	49	1:1	0.061	1.096	0.067	17
1 720	132072	QPSK	20	24.3	23.49	-0.19	Left Tilt	0	1	49	1:1	0.030	1.205	0.036	-
1 720	132072	QPSK	20	23.3	22.90	0.12	Left Tilt	1	50	49	1:1	0.031	1.096	0.034	-
1 720	132072	QPSK	20	24.3	23.49	-0.15	Right Cheek	0	1	49	1:1	0.057	1.205	0.069	-
1 720	132072	QPSK	20	23.3	22.90	-0.17	Right Cheek	1	50	49	1:1	0.060	1.096	0.066	-
1 720	132072	QPSK	20	24.3	23.49	-0.10	Right Tilt	0	1	49	1:1	0.027	1.205	0.033	-
1 720	132072	QPSK	20	23.3	22.90	0.19	Right Tilt	1	50	49	1:1	0.025	1.096	0.027	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 71 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
680.5	133297	QPSK	20	25.0	24.27	-0.03	Left Cheek	0	1	0	1:1	0.098	1.183	0.116	-
680.5	133297	QPSK	20	24.0	23.36	-0.13	Left Cheek	1	50	25	1:1	0.090	1.159	0.104	-
680.5	133297	QPSK	20	25.0	24.27	0.01	Left Tilt	0	1	0	1:1	0.054	1.183	0.064	-
680.5	133297	QPSK	20	24.0	23.36	-0.00	Left Tilt	1	50	25	1:1	0.053	1.159	0.061	-
680.5	133297	QPSK	20	25.0	24.27	0.14	Right Cheek	0	1	0	1:1	0.142	1.183	0.168	18
680.5	133297	QPSK	20	24.0	23.36	-0.02	Right Cheek	1	50	25	1:1	0.126	1.159	0.146	-
680.5	133297	QPSK	20	25.0	24.27	-0.04	Right Tilt	0	1	0	1:1	0.076	1.183	0.090	-
680.5	133297	QPSK	20	24.0	23.36	-0.00	Right Tilt	1	50	25	1:1	0.069	1.159	0.080	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n5 (Cell) Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	0.16	Left Cheek	0	1	1	1:1	0.074	1.019	0.075	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	-0.16	Left Cheek	0	50	28	1:1	0.073	1.064	0.078	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	0.15	Left Tilt	0	1	1	1:1	0.042	1.019	0.043	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	-0.04	Left Tilt	0	50	28	1:1	0.044	1.064	0.047	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	0.02	Right Cheek	0	1	1	1:1	0.099	1.019	0.101	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	0.02	Right Cheek	0	50	28	1:1	0.120	1.064	0.128	19
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	0.07	Right Tilt	0	1	1	1:1	0.043	1.019	0.044	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	-0.12	Right Tilt	0	50	28	1:1	0.049	1.064	0.052	-
836.5	167300	CP OFDM QPSK	20	23.0	22.94	-0.14	Right Cheek	1.5	1	1	1:1	0.070	1.014	0.071	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n12 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	-0.16	Left Cheek	0	1	1	1:1	0.023	1.059	0.024	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	-0.19	Left Cheek	0	36	22	1:1	0.022	1.054	0.023	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	0.17	Left Tilt	0	1	1	1:1	0.00452	1.059	0.005	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	-0.11	Left Tilt	0	36	22	1:1	0.010	1.054	0.011	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	-0.11	Right Cheek	0	1	1	1:1	0.033	1.059	0.035	20
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	-0.10	Right Cheek	0	36	22	1:1	0.027	1.054	0.028	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	-0.17	Right Tilt	0	1	1	1:1	0.014	1.059	0.015	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	0.08	Right Tilt	0	36	22	1:1	0.00799	1.054	0.008	-
707.5	141500	CP OFDM QPSK	15	23.0	22.78	0.18	Right Cheek	1.5	1	1	1:1	0.019	1.052	0.020	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n25 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.09	0.11	Left Cheek	0	1	53	1:1	0.081	1.233	0.100	-
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.11	0.09	Left Cheek	0	50	28	1:1	0.071	1.227	0.087	-
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.09	0.04	Left Tilt	0	1	53	1:1	0.061	1.233	0.075	-
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.11	0.10	Left Tilt	0	50	28	1:1	0.071	1.227	0.087	-
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.09	0.15	Right Cheek	0	1	53	1:1	0.112	1.233	0.138	21
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.11	0.13	Right Cheek	0	50	28	1:1	0.108	1.227	0.133	-
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.09	0.10	Right Tilt	0	1	53	1:1	0.061	1.233	0.075	-
1 882.5	376500	DFT-s OFDM QPSK	20	24.0	23.11	-0.00	Right Tilt	0	50	28	1:1	0.050	1.227	0.061	-
1 882.5	376500	CP OFDM QPSK	20	22.5	21.56	-0.05	Right Cheek	1.5	1	1	1:1	0.079	1.242	0.098	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n30 Head SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.81	0.14	Left Cheek	0	1	1	1:1	0.209	1.315	0.275	-
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.62	0.16	Left Cheek	0	25	14	1:1	0.235	1.374	0.323	22
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.81	0.14	Left Tilt	0	1	1	1:1	0.147	1.315	0.193	-
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.62	0.13	Left Tilt	0	25	14	1:1	0.147	1.374	0.202	-
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.81	0.15	Right Cheek	0	1	1	1:1	0.145	1.315	0.191	-
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.62	0.19	Right Cheek	0	25	14	1:1	0.155	1.374	0.213	-
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.81	0.13	Right Tilt	0	1	1	1:1	0.092	1.315	0.121	-
2 310	462000	DFT-s OFDM QPSK	10	24.0	22.62	0.19	Right Tilt	0	25	14	1:1	0.090	1.374	0.124	-
2 310	462000	CP OFDM QPSK	10	22.5	21.22	0.11	Left Cheek	1.5	1	1	1:1	0.130	1.343	0.175	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n41 Head SAR – Power class 3 (NSA) - Main #2 Ant.

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	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	20.5	20.36	-0.18	Left Cheek	0	1	137	1:1	0.149	1.033	0.154	23
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	0.06	Left Cheek	0	135	69	1:1	0.126	1.035	0.130	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	0.12	Left Tilt	0	1	137	1:1	0.060	1.033	0.062	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	-0.13	Left Tilt	0	135	69	1:1	0.046	1.035	0.048	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	-0.18	Right Cheek	0	1	137	1:1	0.129	1.033	0.133	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	-0.13	Right Cheek	0	135	69	1:1	0.139	1.035	0.144	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	0.06	Right Tilt	0	1	137	1:1	0.079	1.033	0.082	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	-0.18	Right Tilt	0	135	69	1:1	0.078	1.035	0.081	-
2 592.99	518598	CP QPSK	100	20.5	19.71	-0.10	Left Cheek	0	1	1	1:1	0.147	1.199	0.176	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n41 Head SAR (RCV-ON) – Power class 3 (NSA) – Sub #2 Ant.

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	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	20.5	20.48	0.01	Left Cheek	0	1	137	1:1	0.307	1.005	0.309	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.41	-0.09	Left Cheek	0	135	69	1:1	0.271	1.021	0.277	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.48	0.01	Left Tilt	0	1	137	1:1	0.377	1.005	0.379	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.41	-0.05	Left Tilt	0	135	69	1:1	0.372	1.021	0.380	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.48	0.10	Right Cheek	0	1	137	1:1	0.655	1.005	0.658	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.41	-0.02	Right Cheek	0	135	69	1:1	0.507	1.021	0.518	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.48	0.09	Right Tilt	0	1	137	1:1	0.617	1.005	0.620	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.41	0.14	Right Tilt	0	135	69	1:1	0.604	1.021	0.617	-
2 592.99	518598	CP QPSK	100	20.5	20.11	0.04	Right Cheek	0	1	1	1:1	0.642	1.094	0.702	24
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

* Power reduction condition during Receiver_ON

NR Band n66 Head SAR- Main #1 Ant.

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	-0.17	Left Cheek	0	1	53	1:1	0.066	1.183	0.078	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	-0.09	Left Cheek	0	50	28	1:1	0.068	1.282	0.087	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	0.15	Left Tilt	0	1	53	1:1	0.058	1.183	0.069	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	-0.04	Left Tilt	0	50	28	1:1	0.057	1.282	0.073	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	-0.10	Right Cheek	0	1	53	1:1	0.078	1.183	0.092	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	-0.04	Right Cheek	0	50	28	1:1	0.086	1.282	0.110	25
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	-0.07	Right Tilt	0	1	53	1:1	0.045	1.183	0.053	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	0.02	Right Tilt	0	50	28	1:1	0.042	1.282	0.054	-
1 770	354000	CP QPSK	20	22.5	21.73	-0.13	Right Cheek	0	1	1	1:1	0.072	1.194	0.086	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								



NR Band n71 Head SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	Size	Offset		(W/kg)		(W/kg)	
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	-0.16	Left Cheek	0	1	104	1:1	0.069	1.057	0.073	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.10	Left Cheek	0	50	28	1:1	0.144	1.132	0.163	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	-0.15	Left Tilt	0	1	104	1:1	0.037	1.057	0.039	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.05	Left Tilt	0	50	28	1:1	0.076	1.132	0.086	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	-0.12	Right Cheek	0	1	104	1:1	0.097	1.057	0.103	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.13	Right Cheek	0	50	28	1:1	0.168	1.132	0.190	26
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	-0.14	Right Tilt	0	1	104	1:1	0.049	1.057	0.052	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.18	Right Tilt	0	50	28	1:1	0.090	1.132	0.102	-
680.5	136100	CP OFDM QPSK	20	23.5	22.66	-0.10	Right Cheek	1.5	1	1	1:1	0.114	1.213	0.138	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n77 Head SAR- Power class 3 (RCV-ON) - Sub #3 Ant.

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.86	0.18	Left Cheek	0	1	137	1:1	0.146	1.033	0.151	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.85	-0.11	Left Cheek	0	135	69	1:1	0.114	1.035	0.118	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.86	-0.10	Left Tilt	0	1	137	1:1	0.142	1.033	0.147	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.85	-0.10	Left Tilt	0	135	69	1:1	0.146	1.035	0.151	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.86	0.17	Right Cheek	0	1	137	1:1	0.583	1.033	0.602	-
3 750	650000	DFT-s OFDM QPSK	100	18.0	17.61	0.17	Right Cheek	0	1	271	1:1	0.590	1.094	0.645	-
3 930	662000	DFT-s OFDM QPSK	100	18.0	17.64	-0.01	Right Cheek	0	1	271	1:1	0.688	1.086	0.747	27
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.85	-0.19	Right Cheek	0	135	69	1:1	0.606	1.035	0.627	-
3 750	650000	DFT-s OFDM QPSK	100	18.0	17.54	-0.17	Right Cheek	0	135	0	1:1	0.495	1.112	0.550	-
3 930	662000	DFT-s OFDM QPSK	100	18.0	17.31	0.10	Right Cheek	0	135	0	1:1	0.581	1.172	0.681	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.40	0.13	Right Cheek	0	270	0	1:1	0.535	1.148	0.614	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.86	-0.19	Right Tilt	0	1	137	1:1	0.435	1.033	0.449	-
3 750	650000	DFT-s OFDM QPSK	100	18.0	17.61	0.12	Right Tilt	0	1	271	1:1	0.444	1.094	0.486	-
3 930	662000	DFT-s OFDM QPSK	100	18.0	17.64	0.09	Right Tilt	0	1	271	1:1	0.600	1.086	0.652	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.85	0.05	Right Tilt	0	135	69	1:1	0.485	1.035	0.502	-
3 750	650000	DFT-s OFDM QPSK	100	18.0	17.54	-0.16	Right Tilt	0	135	0	1:1	0.471	1.112	0.524	-
3 930	662000	DFT-s OFDM QPSK	100	18.0	17.31	0.12	Right Tilt	0	135	0	1:1	0.413	1.172	0.484	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.40	0.11	Right Tilt	0	270	0	1:1	0.428	1.148	0.491	-
3 930	662000	CP QPSK	100	18.0	17.56	0.01	Right Cheek	0	1	1	1:1	0.647	1.107	0.716	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

* Power reduction condition during Receiver_ON

NR Band n77 Head SAR- Power class 3 (RCV-ON) DoD - Sub #3 Ant.

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.90	-0.13	Left Cheek	0	1	271	1:1	0.203	1.023	0.208	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.85	-0.18	Left Cheek	0	135	138	1:1	0.162	1.035	0.168	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.90	-0.11	Left Tilt	0	1	271	1:1	0.212	1.023	0.217	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.85	-0.03	Left Tilt	0	135	138	1:1	0.195	1.035	0.202	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.90	-0.18	Right Cheek	0	1	271	1:1	0.597	1.023	0.611	28
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.85	-0.07	Right Cheek	0	135	138	1:1	0.453	1.035	0.469	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.90	-0.05	Right Tilt	0	1	271	1:1	0.506	1.023	0.518	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.85	-0.05	Right Tilt	0	135	138	1:1	0.493	1.035	0.510	-
3 500.01	633334	CP QPSK	100	18.0	17.12	-0.14	Right Tilt	0	1	1	1:1	0.499	1.225	0.611	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

* Power reduction condition during Receiver_ON

DTS Head SAR 1g (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.															
2 437	6	802.11b	20	1	13.0	12.88	0.13	Left Cheek	Ant1	98.8	0.320	0.188	1.028	1.012	0.196	-
2 437	6	802.11b	20	1	13.0	12.88	-0.16	Left Tilt	Ant1	98.8	0.368	0.237	1.028	1.012	0.247	-
2 437	6	802.11b	20	1	13.0	12.88	0.08	Right Cheek	Ant1	98.8	0.712	0.366	1.028	1.012	0.381	29
2 437	6	802.11b	20	1	13.0	12.88	-0.12	Right Tilt	Ant1	98.8	0.593	0.336	1.028	1.012	0.350	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

NII Head SAR 1g (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.															
5 290	58	802.11ac	80	MCS0	11.0	10.12	0.00	Left Cheek	Ant1	85.0	0	0	1.225	1.177	0.000	-
5 290	58	802.11ac	80	MCS0	11.0	10.12	0.01	Left Tilt	Ant1	85.0	0.0654	0.00481	1.225	1.177	0.007	-
5 290	58	802.11ac	80	MCS0	11.0	10.12	0.05	Right Cheek	Ant1	85.0	0.71	0.104	1.225	1.177	0.150	30
5 290	58	802.11ac	80	MCS0	11.0	10.12	0.15	Right Tilt	Ant1	85.0	0.403	0.026	1.225	1.177	0.037	-
5 690	138	802.11ac	80	MCS0	11.0	10.96	0.00	Left Cheek	Ant1	85.0	0	0	1.009	1.177	0.000	-
5 690	138	802.11ac	80	MCS0	11.0	10.96	0.04	Left Tilt	Ant1	85.0	0.0145	0.00427	1.009	1.177	0.005	-
5 690	138	802.11ac	80	MCS0	11.0	10.96	-0.07	Right Cheek	Ant1	85.0	0.399	0.034	1.009	1.177	0.040	-
5 690	138	802.11ac	80	MCS0	11.0	10.96	0.04	Right Tilt	Ant1	85.0	0.314	0.013	1.009	1.177	0.015	-
5 775	155	802.11ac	80	MCS0	11.0	10.79	0.00	Left Cheek	Ant1	85.0	0	0	1.050	1.177	0.000	-
5 775	155	802.11ac	80	MCS0	11.0	10.79	0.05	Left Tilt	Ant1	85.0	0.0551	0.00949	1.050	1.177	0.012	-
5 775	155	802.11ac	80	MCS0	11.0	10.79	0.07	Right Cheek	Ant1	85.0	0.239	0.032	1.050	1.177	0.040	-
5 775	155	802.11ac	80	MCS0	11.0	10.79	0.08	Right Tilt	Ant1	85.0	0.228	0.012	1.050	1.177	0.015	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

DSS Head SAR (RCV-ON)

Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.										
2 441	39	Bluetooth DH5	9.0	8.12	-0.05	Left Cheek	0.046	1.225	1.304	0.073	-
2 441	39	Bluetooth DH5	9.0	8.12	-0.02	Left Tilt	0.053	1.225	1.304	0.085	-
2 441	39	Bluetooth DH5	9.0	8.12	0.11	Right Cheek	0.075	1.225	1.304	0.120	31
2 441	39	Bluetooth DH5	9.0	8.12	0.08	Right Tilt	0.074	1.225	1.304	0.118	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg (mW/g) Averaged over 1 gram				

13.2 Body-worn SAR Measurement Results

GSM/ UMTS Body-Worn

GSM/ UMTS Body-Worn SAR – Main #1 Ant.													
Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
836.6	190	GSM 850 Voice		33.5	32.05	-0.02	Rear	1:8.3	15	0.208	1.396	0.290	-
836.6	190	GSM 850 Voice		33.5	32.05	-0.14	Front	1:8.3	15	0.161	1.396	0.225	-
836.6	190	GSM 850 GPRS 3Tx		29.0	28.21	0.01	Rear	1:2.77	15	0.252	1.199	0.302	32
836.6	190	GSM 850 GPRS 3Tx		29.0	28.21	-0.06	Front	1:2.77	15	0.204	1.199	0.245	-
1 880.0	661	GSM 1900 Voice		30.5	30.41	-0.10	Rear	1:8.3	15	0.298	1.021	0.304	33
1 880.0	661	GSM 1900 Voice		30.5	30.41	0.16	Front	1:8.3	15	0.172	1.021	0.176	-
1 880.0	661	GSM 1900 GPRS 4Tx		25.5	25.13	0.07	Rear	1:2.07	15	0.262	1.089	0.285	-
1 880.0	661	GSM 1900 GPRS 4Tx		25.5	25.13	-0.09	Front	1:2.07	15	0.157	1.089	0.171	-
826.4	4132	UMTS Band 5	RMC	25.0	24.16	-0.01	Rear	1:1	15	0.293	1.213	0.355	34
826.4	4132	UMTS Band 5	RMC	25.0	24.16	-0.09	Front	1:1	15	0.215	1.213	0.261	-
1 732.4	1412	UMTS Band 4	RMC	25.0	23.90	0.03	Rear	1:1	15	0.302	1.288	0.389	35
1 732.4	1412	UMTS Band 4	RMC	25.0	23.90	-0.14	Front	1:1	15	0.157	1.288	0.202	-
1 880.0	9400	UMTS Band 2	RMC	25.0	24.36	0.06	Rear	1:1	15	0.689	1.159	0.799	36
1 880.0	9400	UMTS Band 2	RMC	25.0	24.36	-0.11	Front	1:1	15	0.384	1.159	0.445	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

LTE Body-Worn

LTE Band Bodyworn SAR

LTE Band Bodyworn SAR																
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		
2 560	21350	LTE 7 QPSK Main #2 Ant	20	24.0	23.81	-0.03	Rear	0	1	0	1:1	15	0.236	1.045	0.247	37
2 560	21350		20	23.0	22.75	0.08	Rear	1	50	0	1:1	15	0.202	1.059	0.214	-
2 560	21350		20	24.0	23.81	-0.01	Front	0	1	0	1:1	15	0.195	1.045	0.204	-
2 560	21350		20	23.0	22.75	0.08	Front	1	50	0	1:1	15	0.168	1.059	0.178	-
707.5	23095	LTE 12 QPSK Main #1 Ant	10	25.0	23.94	-0.02	Rear	0	1	0	1:1	15	0.249	1.276	0.318	38
707.5	23095		10	24.0	23.02	0.02	Rear	1	25	0	1:1	15	0.203	1.253	0.254	-
707.5	23095		10	25.0	23.94	-0.05	Front	0	1	0	1:1	15	0.193	1.276	0.246	-
707.5	23095		10	24.0	23.02	-0.01	Front	1	25	0	1:1	15	0.158	1.253	0.198	-
782	23230	LTE 13 QPSK Main #1 Ant	10	25.0	23.78	-0.12	Rear	0	1	0	1:1	15	0.321	1.324	0.425	39
782	23230		10	24.0	22.92	0.03	Rear	1	25	0	1:1	15	0.261	1.282	0.335	-
782	23230		10	25.0	23.78	-0.10	Front	0	1	0	1:1	15	0.281	1.324	0.372	-
782	23230		10	24.0	22.92	0.01	Front	1	25	0	1:1	15	0.228	1.282	0.292	-
793	23330	LTE 14 QPSK Main #1 Ant	10	25.0	23.63	-0.07	Rear	0	1	0	1:1	15	0.318	1.371	0.436	40
793	23330		10	24.0	22.80	-0.01	Rear	1	25	0	1:1	15	0.251	1.318	0.331	-
793	23330		10	25.0	23.63	-0.10	Front	0	1	0	1:1	15	0.240	1.371	0.329	-
793	23330		10	24.0	22.80	-0.06	Front	1	25	0	1:1	15	0.204	1.318	0.269	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Body-Worn

LTE Band Bodyworn SAR																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 905	26590	LTE 25 QPSK Main #1 Ant	20	24.5	23.34	-0.01	Rear	0	1	49	1:1	15	0.495	1.306	0.646	41	
1 905	26590		20	23.5	22.50	-0.03	Rear	1	50	25	1:1	15	0.403	1.259	0.507	-	
1 905	26590		20	24.5	23.34	0.16	Front	0	1	49	1:1	15	0.294	1.306	0.384	-	
1 905	26590		20	23.5	22.50	0.10	Front	1	50	25	1:1	15	0.236	1.259	0.297	-	
831.5	26865	LTE 26 QPSK Main #1 Ant	15	24.7	23.62	-0.06	Rear	0	1	0	1:1	15	0.240	1.282	0.308	42	
831.5	26865		15	23.7	22.81	0.03	Rear	1	36	0	1:1	15	0.194	1.227	0.238	-	
831.5	26865		15	24.7	23.62	-0.10	Front	0	1	0	1:1	15	0.200	1.282	0.256	-	
831.5	26865		15	23.7	22.81	-0.01	Front	1	36	0	1:1	15	0.169	1.227	0.207	-	
2 310	27710	LTE 30 QPSK Main #2 Ant	10	24.0	22.65	-0.11	Rear	0	1	0	1:1	15	0.187	1.365	0.255	43	
2 310	27710		10	23.0	21.97	-0.10	Rear	1	25	0	1:1	15	0.162	1.268	0.205	-	
2 310	27710		10	24.0	22.65	-0.13	Front	0	1	0	1:1	15	0.127	1.365	0.173	-	
2 310	27710		10	23.0	21.97	-0.08	Front	1	25	0	1:1	15	0.112	1.268	0.142	-	
2 310	38750	LTE 40 QPSK (Lower) Main #2 Ant	10	9.0	8.81	-0.11	Rear	0	1	0	1:1.58	15	0.00896	1.045	0.009	-	
2 310	38750		10	9.0	8.86	0.12	Rear	0	25	0	1:1.58	15	0.00915	1.033	0.009	44	
2 310	38750		10	9.0	8.81	0.14	Front	0	1	0	1:1.58	15	0.00827	1.045	0.009	-	
2 310	38750		10	9.0	8.86	-0.18	Front	0	25	0	1:1.58	15	0.00817	1.033	0.008	-	
2 355	39200	LTE 40 QPSK (Upper) Main #2 Ant	10	9.0	8.54	0.15	Rear	0	1	0	1:1.58	15	0.00715	1.112	0.008	-	
2 355	39200		10	9.0	8.26	0.15	Rear	0	25	0	1:1.58	15	0.0073	1.186	0.009	45	
2 355	39200		10	9.0	8.54	0.16	Front	0	1	0	1:1.58	15	0.00618	1.112	0.007	-	
2 355	39200		10	9.0	8.26	0.12	Front	0	25	0	1:1.58	15	0.00645	1.186	0.008	-	
2 593	40620	Main #2 Ant QPSK LTE 41 (PC3)	20	24.0	23.43	0.12	Rear	0	1	0	1:1.58	15	0.119	1.140	0.136	-	
2 593	40620		20	23.0	22.50	-0.10	Rear	1	50	0	1:1.58	15	0.093	1.122	0.104	-	
2 593	40620		20	24.0	23.43	-0.18	Front	0	1	0	1:1.58	15	0.077	1.140	0.088	-	
2 593	40620		20	23.0	22.50	-0.08	Front	1	50	0	1:1.58	15	0.064	1.122	0.072	-	
2 593	40620	LTE 41(PC2) HPUE		20	26.3	26.12	0.01	Rear	0	1	0	1:2.31	15	0.223	1.042	0.232	46
2 593	40620	LTE 41(PC3)	PCC	20	24.0	23.55	-0.10	Rear	0	1	0	1:1.58	15	0.150	1.109	0.166	*
2 573.2	40422		SCC	20						1	99						
2593	40620	LTE 41(PC2) HPUE	PCC	20	26.3	26.07	-0.02	Rear	0	1	0	1:2.31	15	0.166	1.054	0.175	**
2 573.2	40422		SCC	20						1	99						
3 690	56640	Sub #3 Ant LTE 48 QPSK		20	22.0	21.68	-0.15	Rear	0	1	49	1:1.58	15	0.210	1.076	0.226	-
3 690	56640			20	21.0	20.58	-0.01	Rear	1	50	49	1:1.58	15	0.165	1.102	0.182	-
3 690	56640			20	22.0	21.68	-0.17	Front	0	1	49	1:1.58	15	0.104	1.076	0.112	-
3 690	56640			20	21.0	20.58	0.12	Front	1	50	49	1:1.58	15	0.085	1.102	0.094	-
3 690	56640	LTE 48QPSK	PCC	20	22.0	21.55	-0.14	Rear	0	1	0	1:1.58	15	0.262	1.109	0.291	47***
3 670.2	56442		SCC	20						1	99						
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

Note: * Up-link Carrier Aggregation Power class 3 (41C)

** Up-link Carrier Aggregation Power class 2 (HPUE) (41C)

*** Up-link Carrier Aggregation (48C)

**LTE Body-Worn****LTE Band Bodyworn SAR**

LTE Band Bodyworn SAR																
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 720	132072	LTE 66 QPSK Main #1 Ant	20	24.3	23.49	0.11	Rear	0	1	49	1:1	15	0.366	1.205	0.441	48
1 720	132072		20	23.3	22.90	0.16	Rear	1	50	49	1:1	15	0.364	1.096	0.399	-
1 720	132072		20	24.3	23.49	-0.13	Front	0	1	49	1:1	15	0.216	1.205	0.260	-
1 720	132072		20	23.3	22.90	0.18	Front	1	50	49	1:1	15	0.212	1.096	0.232	-
680.5	133297	LTE 71 QPSK Main #1 Ant	20	25.0	24.27	-0.01	Rear	0	1	0	1:1	15	0.242	1.183	0.286	49
680.5	133297		20	24.0	23.36	-0.02	Rear	1	50	25	1:1	15	0.185	1.159	0.214	-
680.5	133297		20	25.0	24.27	-0.16	Front	0	1	0	1:1	15	0.174	1.183	0.206	-
680.5	133297		20	24.0	23.36	-0.04	Front	1	50	25	1:1	15	0.137	1.159	0.159	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band Body-Worn

NR Body-Worn SAR																
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
836.5	167300	Main #1 Ant	20	24.5	24.42	0.09	Rear	0	1	1	1:1	15	0.113	1.019	0.115	-
836.5	167300	NR n5	20	24.5	24.23	0.01	Rear	0	50	28	1:1	15	0.192	1.064	0.204	50
836.5	167300	DFT-s OFDM	20	24.5	24.42	0.01	Front	0	1	1	1:1	15	0.087	1.019	0.089	-
836.5	167300	QPSK	20	24.5	24.23	-0.01	Front	0	50	28	1:1	15	0.135	1.064	0.144	-
836.5	167300	CP QPSK	20	23.0	22.94	-0.10	Rear	1.5	1	1	1:1	15	0.126	1.014	0.128	-
707.5	141500	Main #1 Ant	15	24.5	24.25	0.05	Rear	0	1	1	1:1	15	0.044	1.059	0.047	-
707.5	141500	NR n12	15	24.5	24.27	-0.08	Rear	0	36	22	1:1	15	0.035	1.054	0.037	-
707.5	141500	DFT-s OFDM	15	24.5	24.25	-0.05	Front	0	1	1	1:1	15	0.035	1.059	0.037	-
707.5	141500	QPSK	15	24.5	24.27	-0.04	Front	0	36	22	1:1	15	0.031	1.054	0.033	-
707.5	141500	CP QPSK	15	23.0	22.78	-0.01	Rear	1.5	1	1	1:1	15	0.126	1.052	0.133	51
1 882.5	376500	Main #1 Ant	20	24.0	23.09	-0.13	Rear	0	1	53	1:1	15	0.524	1.233	0.646	52
1 882.5	376500	NR n25	20	24.0	23.11	0.08	Rear	0	50	28	1:1	15	0.349	1.227	0.428	-
1 882.5	376500	DFT-s OFDM	20	24.0	23.09	-0.08	Front	0	1	53	1:1	15	0.372	1.233	0.459	-
1 882.5	376500	QPSK	20	24.0	23.11	-0.16	Front	0	50	28	1:1	15	0.229	1.227	0.281	-
1 882.5	376500	CP QPSK	20	22.5	21.56	-0.17	Rear	1.5	1	1	1:1	15	0.399	1.242	0.496	-
2 310	462000	Main #2 Ant	10	24.0	22.81	-0.00	Rear	0	1	1	1:1	15	0.351	1.315	0.462	53
2 310	462000	NR n30	10	24.0	22.62	0.10	Rear	0	25	14	1:1	15	0.204	1.374	0.280	-
2 310	462000	DFT-s OFDM	10	24.0	22.81	0.10	Front	0	1	1	1:1	15	0.254	1.315	0.334	-
2 310	462000	QPSK	10	24.0	22.62	0.14	Front	0	25	14	1:1	15	0.240	1.374	0.330	-
2 310	462000	CP QPSK	10	22.5	21.22	0.12	Rear	1.5	1	1	1:1	15	0.276	1.343	0.371	-
2 592.99	518598	Main #2 Ant	100	20.5	20.36	-0.16	Rear	0	1	137	1:1	15	0.132	1.033	0.136	-
2 592.99	518598	NR n41(PC3)	100	20.5	20.35	-0.11	Rear	0	135	69	1:1	15	0.140	1.035	0.145	-
2 592.99	518598	DFT-s OFDM	100	20.5	20.36	-0.13	Front	0	1	137	1:1	15	0.157	1.033	0.162	54
2 592.99	518598	QPSK	100	20.5	20.35	0.18	Front	0	135	69	1:1	15	0.150	1.035	0.155	-
2 592.99	518598	CP QPSK	100	20.5	19.71	-0.14	Front	1.5	1	1	1:1	15	0.128	1.199	0.154	-
2 592.99	518598	Sub #2 Ant	100	20.5	20.49	-0.05	Rear	0	1	137	1:1	15	0.084	1.002	0.084	55
2 592.99	518598	NR n41(PC3)	100	20.5	20.47	-0.13	Rear	0	135	69	1:1	15	0.071	1.007	0.071	-
2 592.99	518598	DFT-s OFDM	100	20.5	20.49	0.01	Front	0	1	137	1:1	15	0.055	1.002	0.055	-
2 592.99	518598	QPSK	100	20.5	20.47	0.17	Front	0	135	69	1:1	15	0.054	1.007	0.054	-
2 592.99	518598	CP QPSK	100	20.5	20.11	0.15	Rear	1.5	1	1	1:1	15	0.080	1.094	0.088	-
ANSI/ IEEE C95.1 –2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band Body-Worn

NR Body-Worn SAR																
Frequency		Mode	Band	Tune-	Meas.	Power	Test	MPR	RB	RB	Duty	Distance	Meas. SAR	Scaling	Scaled	Plot No.
Mhz	Ch.		width	Up Limit	Power	Drift		(dB)	Size	offset		(mm)	(W/kg)		SAR	
			(Mhz)	(dBm)	(dBm)	(dB)	Position							Factor	(W/kg)	
1 770	354000	Main #1 Ant	20	24.0	23.27	-0.10	Rear	0	1	53	1:1	15	0.532	1.183	0.629	56
1 770	354000	NR n66	20	24.0	22.92	0.16	Rear	0	50	28	1:1	15	0.524	1.282	0.672	-
1 770	354000	DFT-s OFDM	20	24.0	23.27	0.17	Front	0	1	53	1:1	15	0.341	1.183	0.403	-
1 770	354000	QPSK	20	24.0	22.92	-0.02	Front	0	50	28	1:1	15	0.306	1.282	0.392	-
1 770	354000	CP QPSK	20	22.5	21.73	0.03	Rear	1.5	1	1	1:1	15	0.192	1.194	0.229	-
680.5	136100	Main #1 Ant	20	25.0	24.76	-0.04	Rear	0	1	104	1:1	15	0.114	1.057	0.120	-
680.5	136100	NR n71	20	25.0	24.46	0.01	Rear	0	50	28	1:1	15	0.202	1.132	0.229	57
680.5	136100	DFT-s OFDM	20	25.0	24.76	0.01	Front	0	1	104	1:1	15	0.096	1.057	0.101	-
680.5	136100	QPSK	20	25.0	24.46	0.02	Front	0	50	28	1:1	15	0.163	1.132	0.185	-
680.5	136100	CP QPSK	20	23.5	22.66	-0.02	Rear	1.5	1	1	1:1	15	0.182	1.213	0.221	-
3 840	656000	Sub #3 Ant	100	18.0	17.88	-0.19	Rear	0	1	271	1:1	15	0.090	1.028	0.093	59
3 840	656000	NR n77	100	18.0	17.82	0.19	Rear	0	135	69	1:1	15	0.071	1.042	0.074	-
3 840	656000	DFT-s OFDM	100	18.0	17.88	0.15	Front	0	1	271	1:1	15	0.059	1.028	0.061	-
3 840	656000	QPSK (PC3)	100	18.0	17.82	0.16	Front	0	135	69	1:1	15	0.041	1.042	0.043	-
3 750	650000	CP QPSK	100	18.0	17.51	-0.14	Rear	1.5	1	1	1:1	15	0.077	1.119	0.086	-
3 500.01	633334	Sub #3 Ant	100	18.0	17.88	0.14	Rear	0	1	271	1:1	15	0.082	1.028	0.084	-
3 500.01	633334	NR n77	100	18.0	17.84	-0.11	Rear	0	135	138	1:1	15	0.078	1.038	0.081	-
3 500.01	633334	DFT-s OFDM	100	18.0	17.88	-0.02	Front	0	1	271	1:1	15	0.045	1.028	0.046	-
3 500.01	633334	QPSK (PC3) DoD	100	18.0	17.84	-0.04	Front	0	135	138	1:1	15	0.046	1.038	0.048	-
3 500.01	633334	CP QPSK	100	18.0	17.09	-0.17	Rear	1.5	1	1	1:1	15	0.086	1.233	0.106	59
ANSI/ IEEE C95.1 –2005– Safety Limit							Body									
Spatial Peak							1.6 W/kg									
Uncontrolled Exposure/ General Population							Averaged over 1 gram									

DTS Body-Worn 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)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
2 437	6	802.11b	20	1	21.0	20.90	-0.11	Rear	Ant1	98.8	15	0.307	0.200	1.023	1.012	0.207	60
2 437	6	802.11b	20	1	21.0	20.90	0.14	Front	Ant1	98.8	15	0.193	0.122	1.023	1.012	0.126	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

NII Body-Worn 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)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
5 320	64	802.11a	20	6	19.0	18.72	0.16	Rear	Ant1	92.3	15	0.571	0.249	1.067	1.084	0.288	61
5 320	64	802.11a	20	6	19.0	18.72	0.02	Front	Ant1	92.3	15	0.271	0.108	1.067	1.084	0.125	-
5 620	124	802.11a	20	6	19.0	17.85	-0.04	Rear	Ant1	92.3	15	0.242	0.106	1.303	1.084	0.150	-
5 620	124	802.11a	20	6	19.0	17.85	0.03	Front	Ant1	92.3	15	0.183	0.027	1.303	1.084	0.038	-
5 745	149	802.11a	20	6	19.0	17.59	0.06	Rear	Ant1	92.3	15	0.129	0.036	1.384	1.084	0.054	-
5 745	149	802.11a	20	6	19.0	17.59	0.07	Front	Ant1	92.3	15	0.122	0.011	1.384	1.084	0.017	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

DSS Body-Worn SAR

Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.											
2 441	39	Bluetooth DH5	17.0	16.35	0.15	Rear	15	0.086	1.161	1.304	0.130	62
2 441	39	Bluetooth DH5	17.0	16.35	-0.11	Front	15	0.081	1.161	1.304	0.123	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram				

13.3 Hotspot SAR Measurement Results

GSM 850 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance (mm)	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
836.6	190	GPRS 3Tx	29.0	28.21	-0.02	Rear	1:2.77	10	0.531	1.199	0.637	63
836.6	190	GPRS 3Tx	29.0	28.21	-0.03	Front	1:2.77	10	0.279	1.199	0.335	-
836.6	190	GPRS 3Tx	29.0	28.21	-0.08	Left	1:2.77	10	0.094	1.199	0.113	-
836.6	190	GPRS 3Tx	29.0	28.21	0.07	Right	1:2.77	10	0.268	1.199	0.321	-
836.6	190	GPRS 3Tx	29.0	28.21	0.04	Bottom	1:2.77	10	0.271	1.199	0.325	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram						

GSM 1900 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance (mm)	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 850.2	512	GPRS 4Tx	22.5	22.30	-0.06	Rear	1:2.075	10	0.199	1.047	0.208	-
1 850.2	512	GPRS 4Tx	22.5	22.30	-0.19	Front	1:2.075	10	0.118	1.047	0.124	-
1 850.2	512	GPRS 4Tx	22.5	22.30	0.18	Left	1:2.075	10	0.013	1.047	0.014	-
1 850.2	512	GPRS 4Tx	22.5	22.30	-0.12	Right	1:2.075	10	0.023	1.047	0.024	-
1 850.2	512	GPRS 4Tx	22.5	22.30	0.17	Bottom	1:2.075	10	0.244	1.047	0.255	64
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 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
826.4	4132	RMC	25.0	24.16	-0.04	Rear	1:1	10	0.535	1.213	0.649	65
826.4	4132	RMC	25.0	24.16	-0.03	Front	1:1	10	0.367	1.213	0.445	-
826.4	4132	RMC	25.0	24.16	-0.04	Left	1:1	10	0.070	1.213	0.085	-
826.4	4132	RMC	25.0	24.16	0.05	Right	1:1	10	0.164	1.213	0.199	-
826.4	4132	RMC	25.0	24.16	0.16	Bottom	1:1	10	0.224	1.213	0.272	-
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 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
1 732.4	1412	RMC	22.0	20.78	0.03	Rear	1:1	10	0.206	1.324	0.273	66
1 732.4	1412	RMC	22.0	20.78	-0.14	Front	1:1	10	0.148	1.324	0.196	-
1 732.4	1412	RMC	22.0	20.78	0.19	Left	1:1	10	0.063	1.324	0.083	-
1 732.4	1412	RMC	22.0	20.78	0.02	Right	1:1	10	0.047	1.324	0.062	-
1 732.4	1412	RMC	22.0	20.78	0.01	Bottom	1:1	10	0.189	1.324	0.250	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 2 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
1 880	9400	RMC	22.0	21.24	0.04	Rear	1:1	10	0.533	1.191	0.635	-
1 880	9400	RMC	22.0	21.24	-0.11	Front	1:1	10	0.372	1.191	0.443	-
1 880	9400	RMC	22.0	21.24	-0.03	Left	1:1	10	0.039	1.191	0.046	-
1 880	9400	RMC	22.0	21.24	-0.01	Right	1:1	10	0.064	1.191	0.076	-
1 880	9400	RMC	22.0	21.24	0.15	Bottom	1:1	10	0.935	1.191	1.114	67
1 852.4	9262	RMC	22.0	21.15	0.17	Bottom	1:1	10	0.814	1.216	0.990	-
1 907.6	9538	RMC	22.0	21.51	0.16	Bottom	1:1	10	0.930	1.119	1.041	-
1 880	9400	RMC	22.0	21.24	0.10	Bottom	1:1	10	0.927	1.191	1.104	*
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 Band 7 Hotspot SAR

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 560	21350	QPSK	20	21.0	20.69	-0.15	Rear	0	1	0	1:1	10	0.246	1.074	0.264	-
2 560	21350	QPSK	20	21.0	20.99	-0.02	Rear	0	50	0	1:1	10	0.255	1.002	0.256	-
2 560	21350	QPSK	20	21.0	20.69	0.17	Front	0	1	0	1:1	10	0.171	1.074	0.184	-
2 560	21350	QPSK	20	21.0	20.99	0.04	Front	0	50	0	1:1	10	0.177	1.002	0.177	-
2 560	21350	QPSK	20	21.0	20.69	0.10	Left	0	1	0	1:1	10	0.121	1.074	0.130	-
2 560	21350	QPSK	20	21.0	20.99	0.04	Left	0	50	0	1:1	10	0.128	1.002	0.128	-
2 560	21350	QPSK	20	21.0	20.69	0.17	Bottom	0	1	0	1:1	10	0.392	1.074	0.421	68
2 560	21350	QPSK	20	21.0	20.99	0.06	Bottom	0	50	0	1:1	10	0.373	1.002	0.374	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 12 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	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	25.0	23.94	-0.05	Rear	0	1	0	1:1	10	0.355	1.276	0.453	69
707.5	23095	QPSK	10	24.0	23.02	0.08	Rear	1	25	0	1:1	10	0.294	1.253	0.368	-
707.5	23095	QPSK	10	25.0	23.94	-0.13	Front	0	1	0	1:1	10	0.280	1.276	0.357	-
707.5	23095	QPSK	10	24.0	23.02	0.00	Front	1	25	0	1:1	10	0.218	1.253	0.273	-
707.5	23095	QPSK	10	25.0	23.94	0.07	Left	0	1	0	1:1	10	0.094	1.276	0.120	-
707.5	23095	QPSK	10	24.0	23.02	0.04	Left	1	25	0	1:1	10	0.078	1.253	0.098	-
707.5	23095	QPSK	10	25.0	23.94	-0.04	Right	0	1	0	1:1	10	0.219	1.276	0.280	-
707.5	23095	QPSK	10	24.0	23.02	0.05	Right	1	25	0	1:1	10	0.205	1.253	0.257	-
707.5	23095	QPSK	10	25.0	23.94	0.06	Bottom	0	1	0	1:1	10	0.149	1.276	0.190	-
707.5	23095	QPSK	10	24.0	23.02	0.10	Bottom	1	25	0	1:1	10	0.115	1.253	0.144	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population																

LTE Band 13 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	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	25.0	23.78	0.00	Rear	0	1	0	1:1	10	0.542	1.324	0.718	70
782	23230	QPSK	10	24.0	22.92	0.00	Rear	1	25	0	1:1	10	0.448	1.282	0.574	-
782	23230	QPSK	10	25.0	23.78	-0.01	Front	0	1	0	1:1	10	0.326	1.324	0.432	-
782	23230	QPSK	10	24.0	22.92	-0.03	Front	1	25	0	1:1	10	0.273	1.282	0.350	-
782	23230	QPSK	10	25.0	23.78	-0.05	Left	0	1	0	1:1	10	0.181	1.324	0.240	-
782	23230	QPSK	10	24.0	22.92	0.02	Left	1	25	0	1:1	10	0.131	1.282	0.168	-
782	23230	QPSK	10	25.0	23.78	0.07	Right	0	1	0	1:1	10	0.372	1.324	0.493	-
782	23230	QPSK	10	24.0	22.92	0.03	Right	1	25	0	1:1	10	0.304	1.282	0.390	-
782	23230	QPSK	10	25.0	23.78	0.14	Bottom	0	1	0	1:1	10	0.221	1.324	0.293	-
782	23230	QPSK	10	24.0	22.92	0.15	Bottom	1	25	0	1:1	10	0.181	1.282	0.232	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 14 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
793	23330	QPSK	10	25.0	23.63	-0.01	Rear	0	1	0	1:1	10	0.531	1.371	0.728	71
793	23330	QPSK	10	24.0	22.80	0.02	Rear	1	25	0	1:1	10	0.440	1.318	0.580	-
793	23330	QPSK	10	25.0	23.63	0.04	Front	0	1	0	1:1	10	0.310	1.371	0.425	-
793	23330	QPSK	10	24.0	22.80	-0.03	Front	1	25	0	1:1	10	0.256	1.318	0.337	-
793	23330	QPSK	10	25.0	23.63	0.04	Left	0	1	0	1:1	10	0.151	1.371	0.207	-
793	23330	QPSK	10	24.0	22.80	0.05	Left	1	25	0	1:1	10	0.116	1.318	0.153	-
793	23330	QPSK	10	25.0	23.63	0.05	Right	0	1	0	1:1	10	0.363	1.371	0.498	-
793	23330	QPSK	10	24.0	22.80	0.01	Right	1	25	0	1:1	10	0.299	1.318	0.394	-
793	23330	QPSK	10	25.0	23.63	0.12	Bottom	0	1	0	1:1	10	0.224	1.371	0.307	-
793	23330	QPSK	10	24.0	22.80	0.10	Bottom	1	25	0	1:1	10	0.188	1.318	0.248	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 25 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	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	20.0	19.14	0.08	Rear	0	1	49	1:1	10	0.406	1.219	0.495	-
1 905	26590	QPSK	20	20.0	19.12	-0.09	Rear	0	50	25	1:1	10	0.409	1.225	0.501	-
1 905	26590	QPSK	20	20.0	19.14	-0.14	Front	0	1	49	1:1	10	0.245	1.219	0.299	-
1 905	26590	QPSK	20	20.0	19.12	0.08	Front	0	50	25	1:1	10	0.245	1.225	0.300	-
1 905	26590	QPSK	20	20.0	19.14	-0.14	Left	0	1	49	1:1	10	0.021	1.219	0.026	-
1 905	26590	QPSK	20	20.0	19.12	-0.01	Left	0	50	25	1:1	10	0.020	1.225	0.025	-
1 905	26590	QPSK	20	20.0	19.14	0.12	Right	0	1	49	1:1	10	0.064	1.219	0.078	-
1 905	26590	QPSK	20	20.0	19.12	0.11	Right	0	50	25	1:1	10	0.063	1.225	0.077	-
1 905	26590	QPSK	20	20.0	19.14	0.10	Bottom	0	1	49	1:1	10	0.599	1.219	0.730	-
1 905	26590	QPSK	20	20.0	19.12	0.12	Bottom	0	50	25	1:1	10	0.599	1.225	0.734	72
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 26 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	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	24.7	23.62	-0.06	Rear	0	1	0	1:1	10	0.457	1.282	0.586	73
831.5	26865	QPSK	15	23.7	22.81	0.05	Rear	1	36	0	1:1	10	0.390	1.227	0.479	-
831.5	26865	QPSK	15	24.7	23.62	-0.16	Front	0	1	0	1:1	10	0.282	1.282	0.362	-
831.5	26865	QPSK	15	23.7	22.81	-0.02	Front	1	36	0	1:1	10	0.230	1.227	0.282	-
831.5	26865	QPSK	15	24.7	23.62	0.10	Left	0	1	0	1:1	10	0.162	1.282	0.208	-
831.5	26865	QPSK	15	23.7	22.81	-0.01	Left	1	36	0	1:1	10	0.119	1.227	0.146	-
831.5	26865	QPSK	15	24.7	23.62	0.02	Right	0	1	0	1:1	10	0.288	1.282	0.369	-
831.5	26865	QPSK	15	23.7	22.81	0.01	Right	1	36	0	1:1	10	0.219	1.227	0.269	-
831.5	26865	QPSK	15	24.7	23.62	0.06	Bottom	0	1	0	1:1	10	0.243	1.282	0.312	-
831.5	26865	QPSK	15	23.7	22.81	0.12	Bottom	1	36	0	1:1	10	0.204	1.227	0.250	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 30 Hotspot SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 310	27710	QPSK	10	17.0	16.21	-0.07	Rear	0	1	24	1:1	10	0.242	1.199	0.290	-
2 310	27710	QPSK	10	17.0	16.30	-0.14	Rear	0	25	24	1:1	10	0.258	1.175	0.303	-
2 310	27710	QPSK	10	17.0	16.21	0.01	Front	0	1	24	1:1	10	0.162	1.199	0.194	-
2 310	27710	QPSK	10	17.0	16.30	0.18	Front	0	25	24	1:1	10	0.169	1.175	0.199	-
2 310	27710	QPSK	10	17.0	16.21	0.15	Left	0	1	24	1:1	10	0.145	1.199	0.174	-
2 310	27710	QPSK	10	17.0	16.30	0.10	Left	0	25	24	1:1	10	0.148	1.175	0.174	-
2 310	27710	QPSK	10	17.0	16.21	0.04	Bottom	0	1	24	1:1	10	0.418	1.199	0.501	-
2 310	27710	QPSK	10	17.0	16.30	0.12	Bottom	0	25	24	1:1	10	0.435	1.175	0.511	74
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 40 (Lower) Hotspot SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 310	38750	QPSK	10	9.0	8.81	0.13	Rear	0	1	0	1:1.58	10	0.024	1.045	0.025	-
2 310	38750	QPSK	10	9.0	8.86	0.15	Rear	0	25	0	1:1.58	10	0.024	1.033	0.025	-
2 310	38750	QPSK	10	9.0	8.81	0.19	Front	0	1	0	1:1.58	10	0.016	1.045	0.017	-
2 310	38750	QPSK	10	9.0	8.86	0.16	Front	0	25	0	1:1.58	10	0.016	1.033	0.017	-
2 310	38750	QPSK	10	9.0	8.81	0.12	Left	0	1	0	1:1.58	10	0.011	1.045	0.012	-
2 310	38750	QPSK	10	9.0	8.86	0.12	Left	0	25	0	1:1.58	10	0.00875	1.033	0.009	-
2 310	38750	QPSK	10	9.0	8.81	-0.08	Bottom	0	1	0	1:1.58	10	0.039	1.045	0.041	75
2 310	38750	QPSK	10	9.0	8.86	0.03	Bottom	0	25	0	1:1.58	10	0.039	1.033	0.040	-
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 40 (Upper) Hotspot SAR- Main #2 Ant.																
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 310	38750	QPSK	10	9.0	8.54	-0.11	Rear	0	1	0	1:1.58	10	0.017	1.112	0.019	-
2 310	38750	QPSK	10	9.0	8.26	0.18	Rear	0	25	0	1:1.58	10	0.017	1.186	0.021	-
2 310	38750	QPSK	10	9.0	8.54	0.18	Front	0	1	0	1:1.58	10	0.013	1.112	0.014	-
2 310	38750	QPSK	10	9.0	8.26	0.18	Front	0	25	0	1:1.58	10	0.014	1.186	0.017	-
2 310	38750	QPSK	10	9.0	8.54	0.11	Left	0	1	0	1:1.58	10	0.00754	1.112	0.008	-
2 310	38750	QPSK	10	9.0	8.26	0.13	Left	0	25	0	1:1.58	10	0.00526	1.186	0.006	-
2 310	38750	QPSK	10	9.0	8.54	0.12	Bottom	0	1	0	1:1.58	10	0.030	1.112	0.033	-
2 310	38750	QPSK	10	9.0	8.26	0.11	Bottom	0	25	0	1:1.58	10	0.030	1.186	0.036	68
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 Hotspot SAR- Main #2 Ant.																	
Frequency		Mode		Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)
2 593	40620	QPSK	20	21.0	20.55	0.12	Rear	0	1	0	1:1.58	10	0.094	1.109	0.104	-	
2 593	40620	QPSK	20	21.0	20.64	0.06	Rear	0	50	0	1:1.58	10	0.094	1.086	0.102	-	
2 593	40620	QPSK	20	21.0	20.55	0.15	Front	0	1	0	1:1.58	10	0.082	1.109	0.091	-	
2 593	40620	QPSK	20	21.0	20.64	0.03	Front	0	50	0	1:1.58	10	0.084	1.086	0.091	-	
2 593	40620	QPSK	20	21.0	20.55	0.11	Left	0	1	0	1:1.58	10	0.052	1.109	0.058	-	
2 593	40620	QPSK	20	21.0	20.64	0.06	Left	0	50	0	1:1.58	10	0.055	1.086	0.060	-	
2 593	40620	QPSK	20	21.0	20.55	0.12	Bottom	0	1	0	1:1.58	10	0.181	1.109	0.201	-	
2 593	40620	QPSK	20	21.0	20.64	0.11	Bottom	0	50	0	1:1.58	10	0.184	1.086	0.200	-	
Up-link Carrier Aggregation Power class 3 (41C)																	
2 593	40620	PCC	QPSK	20	21.0	20.66	0.13	Bottom	0	1	0	1:1.58	10	0.272	1.081	0.294	77
2 573.2	40422	SCC	QPSK	20						1	99						
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

Note : * When Power reduction is applied to LTE B41 PC 2(HPUE), The power level of LTE B41 PC became same as the reduction power of LTE B41 PC3.

LTE TDD Band 48 Hotspot SAR- Sub #3 Ant.

Frequency		Mode		Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Distance	Meas. SAR	Scaling	Scaled SAR	Plot No.
Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	Size		Offset	(mm)	(W/kg)	Factor	
3 690	56640	QPSK		20	19.5	19.15	-0.10	Rear	0	1	49	1:1.58	10	0.156	1.084	0.169	-
3 690	56640	QPSK		20	19.5	19.15	-0.03	Rear	0	50	49	1:1.58	10	0.157	1.084	0.170	-
3 690	56640	QPSK		20	19.5	19.15	-0.10	Front	0	1	49	1:1.58	10	0.060	1.084	0.065	-
3 690	56640	QPSK		20	19.5	19.15	-0.16	Front	0	50	49	1:1.58	10	0.060	1.084	0.065	-
3 690	56640	QPSK		20	19.5	19.15	-0.02	Left	0	1	49	1:1.58	10	0.331	1.084	0.359	-
3 690	56640	QPSK		20	19.5	19.15	0.18	Left	0	50	49	1:1.58	10	0.334	1.084	0.362	-
3 690	56640	QPSK		20	19.5	19.15	-0.14	Top	0	1	49	1:1.58	10	0.237	1.084	0.257	-
3 690	56640	QPSK		20	19.5	19.15	-0.07	Top	0	50	49	1:1.58	10	0.239	1.084	0.259	-
3 690	56640	QPSK		20	19.5	18.94	-0.09	Left	0	1	0	1:1.58	10	0.339	1.138	0.386	-
Up-link Carrier Aggregation (48C)																	
3 690	56640	PCC	QPSK	20	19.5	19.00	0.03	Left	0	1	0	1:1.58	10	0.369	1.122	0.414	78
3 670.2	56442	SCC	QPSK	20						1	99						
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE Band 66 Hotspot SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 745	132322	QPSK	20	19.8	19.36	-0.04	Rear	0	1	49	1:1	10	0.520	1.107	0.576	-
1 745	132322	QPSK	20	19.8	19.52	0.01	Rear	0	50	49	1:1	10	0.543	1.067	0.579	-
1 745	132322	QPSK	20	19.8	19.36	-0.05	Front	0	1	49	1:1	10	0.301	1.107	0.333	-
1 745	132322	QPSK	20	19.8	19.52	-0.12	Front	0	50	49	1:1	10	0.303	1.067	0.323	-
1 745	132322	QPSK	20	19.8	19.36	-0.05	Left	0	1	49	1:1	10	0.061	1.107	0.068	-
1 745	132322	QPSK	20	19.8	19.52	-0.19	Left	0	50	49	1:1	10	0.060	1.067	0.064	-
1 745	132322	QPSK	20	19.8	19.36	0.13	Right	0	1	49	1:1	10	0.053	1.107	0.059	-
1 745	132322	QPSK	20	19.8	19.52	0.01	Right	0	50	49	1:1	10	0.051	1.067	0.054	-
1 745	132322	QPSK	20	19.8	19.36	0.16	Bottom	0	1	49	1:1	10	0.690	1.107	0.764	-
1 745	132322	QPSK	20	19.8	19.52	0.13	Bottom	0	50	49	1:1	10	0.703	1.067	0.750	79
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 71 Hotspot SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
680.5	133297	QPSK	20	25.0	24.27	0.05	Rear	0	1	0	1:1	10	0.347	1.183	0.411	80
680.5	133297	QPSK	20	24.0	23.36	0.02	Rear	1	50	25	1:1	10	0.222	1.159	0.257	-
680.5	133297	QPSK	20	25.0	24.27	0.01	Front	0	1	0	1:1	10	0.228	1.183	0.270	-
680.5	133297	QPSK	20	24.0	23.36	-0.01	Front	1	50	25	1:1	10	0.177	1.159	0.205	-
680.5	133297	QPSK	20	25.0	24.27	0.01	Left	0	1	0	1:1	10	0.231	1.183	0.273	-
680.5	133297	QPSK	20	24.0	23.36	-0.01	Left	1	50	25	1:1	10	0.166	1.159	0.192	-
680.5	133297	QPSK	20	25.0	24.27	0.01	Right	0	1	0	1:1	10	0.252	1.183	0.298	-
680.5	133297	QPSK	20	24.0	23.36	0.01	Right	1	50	25	1:1	10	0.200	1.159	0.232	-
680.5	133297	QPSK	20	25.0	24.27	0.15	Bottom	0	1	0	1:1	10	0.107	1.183	0.127	-
680.5	133297	QPSK	20	24.0	23.36	0.03	Bottom	1	50	25	1:1	10	0.095	1.159	0.110	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n5 (Cell) Hotspot SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	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	24.5	24.42	-0.04	Rear	0	1	1	1:1	10	0.265	1.019	0.270	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	0.01	Rear	0	50	28	1:1	10	0.396	1.064	0.421	81
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	0.05	Front	0	1	1	1:1	10	0.147	1.019	0.150	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	-0.04	Front	0	50	28	1:1	10	0.205	1.064	0.218	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	-0.02	Left	0	1	1	1:1	10	0.061	1.019	0.062	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	-0.03	Left	0	50	28	1:1	10	0.065	1.064	0.069	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	0.06	Right	0	1	1	1:1	10	0.116	1.019	0.118	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	-0.04	Right	0	50	28	1:1	10	0.125	1.064	0.133	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.42	0.17	Bottom	0	1	1	1:1	10	0.153	1.019	0.156	-
836.5	167300	DFT-s OFDM QPSK	20	24.5	24.23	0.02	Bottom	0	50	28	1:1	10	0.296	1.064	0.315	-
836.5	167300	CP QPSK	20	23.0	22.94	0.03	Rear	1.5	1	1	1:1	10	0.203	1.014	0.206	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n12 Hotspot SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	-0.04	Rear	0	1	1	1:1	10	0.073	1.059	0.077	82
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	0.01	Rear	0	36	0	1:1	10	0.070	1.054	0.074	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	0.12	Front	0	1	1	1:1	10	0.038	1.059	0.040	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	-0.07	Front	0	36	0	1:1	10	0.039	1.054	0.041	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	0.10	Left	0	1	1	1:1	10	0.019	1.059	0.020	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	0.12	Left	0	36	0	1:1	10	0.016	1.054	0.017	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	-0.03	Right	0	1	1	1:1	10	0.032	1.059	0.034	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	0.03	Right	0	36	0	1:1	10	0.030	1.054	0.032	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.25	0.02	Bottom	0	1	1	1:1	10	0.052	1.059	0.055	-
707.5	141500	DFT-s OFDM QPSK	15	24.5	24.27	-0.08	Bottom	0	36	0	1:1	10	0.041	1.054	0.043	-
707.5	141500	CP QPSK	15	23.0	22.78	0.01	Rear	1.5	1	1	1:1	10	0.040	1.052	0.042	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n25 Hotspot SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	-0.02	Rear	0	1	53	1:1	10	0.434	1.072	0.465	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	0.06	Rear	0	50	56	1:1	10	0.338	1.072	0.362	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	-0.07	Front	0	1	53	1:1	10	0.182	1.072	0.195	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	-0.05	Front	0	50	56	1:1	10	0.179	1.072	0.192	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	-0.04	Left	0	1	53	1:1	10	0.057	1.072	0.061	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	-0.01	Left	0	50	56	1:1	10	0.046	1.072	0.049	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	0.16	Right	0	1	53	1:1	10	0.041	1.072	0.044	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	0.13	Right	0	50	56	1:1	10	0.039	1.072	0.042	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	0.07	Bottom	0	1	53	1:1	10	0.581	1.072	0.623	-
1 882.5	376500	DFT-s OFDM QPSK	20	20.5	20.20	0.01	Bottom	0	50	56	1:1	10	0.704	1.072	0.755	83
1 882.5	376500	CP QPSK	20	20.5	20.05	0.17	Bottom	0	1	1	1:1	10	0.531	1.109	0.589	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n30 Hotspot SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.44	0.07	Rear	0	1	26	1:1	10	0.178	1.138	0.203	-
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.36	0.14	Rear	0	25	14	1:1	10	0.174	1.159	0.202	-
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.44	0.12	Front	0	1	26	1:1	10	0.107	1.138	0.122	-
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.36	0.17	Front	0	25	14	1:1	10	0.109	1.159	0.126	-
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.44	0.06	Left	0	1	26	1:1	10	0.064	1.138	0.073	-
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.36	0.10	Left	0	25	14	1:1	10	0.051	1.159	0.059	-
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.44	-0.12	Bottom	0	1	26	1:1	10	0.175	1.138	0.199	-
2 310	462000	DFT-s OFDM QPSK	10	17.0	16.36	-0.08	Bottom	0	25	14	1:1	10	0.170	1.159	0.197	-
2 310	462000	CP QPSK	10	17.0	16.38	0.19	Rear	0	1	1	1:1	10	0.236	1.153	0.272	84
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n41 Hotspot SAR– Power class 3 - Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	-0.19	Rear	0	1	137	1:1	10	0.257	1.033	0.265	-
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	-0.05	Rear	0	135	69	1:1	10	0.258	1.035	0.267	-
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	-0.04	Front	0	1	137	1:1	10	0.231	1.033	0.239	-
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	0.17	Front	0	135	69	1:1	10	0.229	1.035	0.237	-
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	0.14	Left	0	1	137	1:1	10	0.179	1.033	0.185	-
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	0.11	Left	0	135	69	1:1	10	0.212	1.035	0.219	-
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	-0.04	Bottom	0	1	137	1:1	10	0.430	1.033	0.444	-
2592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	0.01	Bottom	0	135	69	1:1	10	0.435	1.035	0.450	-
2592.99	518598	CP QPSK	100	20.5	19.71	-0.06	Bottom	0	1	1	1:1	10	0.473	1.199	0.567	85
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n41 Hotspot SAR– Power class 3 - Sub #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.49	-0.12	Rear	0	1	137	1:1	10	0.135	1.002	0.135	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.47	-0.17	Rear	0	135	138	1:1	10	0.138	1.007	0.139	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.49	0.18	Front	0	1	137	1:1	10	0.112	1.002	0.112	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.47	-0.19	Front	0	135	138	1:1	10	0.129	1.007	0.130	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.49	0.17	Left	0	1	137	1:1	10	0.031	1.002	0.031	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.47	0.17	Left	0	135	138	1:1	10	0.047	1.007	0.047	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.49	0.02	Top	0	1	137	1:1	10	0.238	1.002	0.238	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.47	0.04	Top	0	135	138	1:1	10	0.245	1.007	0.247	-
2 592.99	518598	CP QPSK	100	20.5	20.11	0.14	Top	0	1	1	1:1	10	0.264	1.094	0.289	86
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n66 Hotspot SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.80	0.01	Rear	0	1	53	1:1	10	0.497	1.047	0.520	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	-0.14	Rear	0	50	56	1:1	10	0.468	1.035	0.484	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.80	-0.04	Front	0	1	53	1:1	10	0.241	1.047	0.252	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	0.15	Front	0	50	56	1:1	10	0.232	1.035	0.240	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.80	0.15	Left	0	1	53	1:1	10	0.044	1.047	0.046	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	0.12	Left	0	50	56	1:1	10	0.040	1.035	0.041	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.80	0.14	Right	0	1	53	1:1	10	0.045	1.047	0.047	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	0.12	Right	0	50	56	1:1	10	0.041	1.035	0.042	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.80	0.16	Bottom	0	1	53	1:1	10	0.597	1.047	0.625	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	0.12	Bottom	0	50	56	1:1	10	0.560	1.035	0.580	-
1 770	354000	CP QPSK	20	20.0	19.44	-0.10	Bottom	0	1	1	1:1	10	0.603	1.138	0.686	87
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n71 Hotspot SAR- Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	0.03	Rear	0	1	104	1:1	10	0.268	1.057	0.283	88
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	0.01	Rear	0	50	28	1:1	10	0.231	1.132	0.261	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	0.01	Front	0	1	104	1:1	10	0.173	1.057	0.183	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.01	Front	0	50	28	1:1	10	0.170	1.132	0.192	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	-0.02	Left	0	1	104	1:1	10	0.085	1.057	0.090	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.04	Left	0	50	28	1:1	10	0.071	1.132	0.080	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	0.03	Right	0	1	104	1:1	10	0.169	1.057	0.179	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.02	Right	0	50	28	1:1	10	0.159	1.132	0.180	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.76	-0.01	Bottom	0	1	104	1:1	10	0.148	1.057	0.156	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	24.46	-0.05	Bottom	0	50	28	1:1	10	0.135	1.132	0.153	-
680.5	136100	CP QPSK	20	23.5	22.66	0.03	Rear	1.5	1	1	1:1	10	0.157	1.213	0.190	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n77 Hotspot SAR - Power Class 3 - Sub #3 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)						(mm)	(W/kg)		(W/kg)	
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.88	-0.10	Rear	0	1	271	1:1	10	0.153	1.028	0.157	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.82	-0.03	Rear	0	135	69	1:1	10	0.178	1.042	0.185	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.88	-0.18	Front	0	1	271	1:1	10	0.078	1.028	0.080	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.82	0.13	Front	0	135	69	1:1	10	0.098	1.042	0.102	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.88	0.06	Left	0	1	271	1:1	10	0.339	1.028	0.348	89
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.82	-0.08	Left	0	135	69	1:1	10	0.310	1.042	0.323	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.88	0.01	Top	0	1	271	1:1	10	0.170	1.028	0.175	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.82	0.11	Top	0	135	69	1:1	10	0.133	1.042	0.139	-
3 930	662000	CP QPSK	100	18.0	17.51	-0.11	Left	0	1	1	1:1	10	0.274	1.119	0.307	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n77 Hotspot SAR - Power Class 3 (DoD) - Sub #3 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)						(mm)	(W/kg)		(W/kg)	
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.88	0.06	Rear	0	1	271	1:1	10	0.140	1.028	0.144	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.84	0.12	Rear	0	135	138	1:1	10	0.124	1.038	0.129	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.88	0.05	Front	0	1	271	1:1	10	0.123	1.028	0.126	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.84	-0.18	Front	0	135	138	1:1	10	0.176	1.038	0.183	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.88	-0.15	Left	0	1	271	1:1	10	0.180	1.028	0.185	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.84	0.12	Left	0	135	138	1:1	10	0.167	1.038	0.173	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.88	-0.14	Top	0	1	271	1:1	10	0.190	1.028	0.195	90
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.84	0.11	Top	0	135	138	1:1	10	0.181	1.038	0.188	-
3 500.01	633334	CP QPSK	100	18.0	17.09	0.02	Left	0	1	1	1:1	10	0.130	1.233	0.160	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

DTS Hotspot SAR

Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
Mhz	Ch.		(Mhz)	(Mbps)	(dBm)	(dBm)	(dB)						(W/kg)				
2 437	6	802.11b	20	1	21.0	20.90	-0.11	Rear	Ant1	98.8	10	0.537	0.321	1.023	1.012	0.332	-
2 437	6	802.11b	20	1	21.0	20.90	-0.06	Front	Ant1	98.8	10	0.380	0.232	1.023	1.012	0.240	-
2 437	6	802.11b	20	1	21.0	20.90	0.14	Left	Ant1	98.8	10	0.199	0.187	1.023	1.012	0.194	-
2 437	6	802.11b	20	1	21.0	20.90	0.04	Top	Ant1	98.8	10	0.817	0.502	1.023	1.012	0.520	91
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

5 GHz WLAN 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.																
5 745	149	802.11a	20	6	19.0	17.59	0.04	Rear	Ant1	92.3	10	0.293	0.064	1.384	1.084	0.096	-
5 745	149	802.11a	20	6	19.0	17.59	0.05	Front	Ant1	92.3	10	0.138	0.014	1.384	1.084	0.021	-
5 745	149	802.11a	20	6	19.0	17.59	0.02	Left	Ant1	92.3	10	0.735	0.212	1.384	1.084	0.318	92
5 745	149	802.11a	20	6	19.0	17.59	0.07	Top	Ant1	92.3	10	0.282	0.077	1.384	1.084	0.116	-
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 (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.											
2 441	39	Bluetooth DH5	17.0	16.35	0.13	Rear	10	0.127	1.161	1.304	0.192	-
2 441	39	Bluetooth DH5	17.0	16.35	-0.16	Front	10	0.094	1.161	1.304	0.142	-
2 441	39	Bluetooth DH5	17.0	16.35	0.02	Left	10	0.052	1.161	1.304	0.079	-
2 441	39	Bluetooth DH5	17.0	16.35	0.08	Top	10	0.232	1.161	1.304	0.351	93
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram					

13.4 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.

13.5 Phablet SAR Measurement Results

UMTS Band 2 Phablet SAR 10g- Main #1													
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.												
1 880.0	9400	RMC	22.0	21.27	0.10	Rear	ON	1:1	0	1.59	1.183	1.881	-
1 880.0	9400	RMC	22.0	21.27	0.01	Front	ON	1:1	0	0.862	1.183	1.020	-
1 880.0	9400	RMC	25.0	24.36	0.12	Left	N/A	1:1	0	0.134	1.159	0.155	-
1 880.0	9400	RMC	25.0	24.36	0.17	Right	N/A	1:1	0	0.193	1.159	0.224	-
1 880.0	9400	RMC	22.0	21.27	0.10	Bottom	ON	1:1	0	2.18	1.183	2.579	-
1 852.4	9262	RMC	22.0	21.22	0.09	Bottom	ON	1:1	0	2.26	1.197	2.705	94
1 907.6	9538	RMC	22.0	21.57	0.03	Bottom	ON	1:1	0	2.14	1.104	2.363	-
1 880.0	9400	RMC	25.0	24.36	0.14	Rear	OFF	1:1	11	0.643	1.159	0.745	-
1 880.0	9400	RMC	25.0	24.36	-0.01	Front	OFF	1:1	7	0.648	1.159	0.751	-
1 880.0	9400	RMC	25.0	24.36	0.16	Bottom	OFF	1:1	13	0.660	1.159	0.765	-
1 852.4	9262	RMC	22.0	21.22	0.17	Bottom	ON	1:1	0	2.06	1.197	2.466	*
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Hand 4.0 W/kg Averaged over 10 gram						

Note: * Data entry indicate Variability measurement.

LTE Band 25 Phablet SAR10g_ Main #1

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
1 860	26140	QPSK	20	20.0	19.34	-0.14	Rear	ON	0	1	99	1:1	0	0.987	1.164	1.149	-
1 860	26140	QPSK	20	20.0	19.39	-0.18	Rear	ON	0	50	49	1:1	0	0.963	1.151	1.108	-
1 860	26140	QPSK	20	20.0	19.34	0.01	Front	ON	0	1	99	1:1	0	0.599	1.164	0.697	-
1 860	26140	QPSK	20	20.0	19.39	0.02	Front	ON	0	50	49	1:1	0	0.578	1.151	0.665	-
1 905	26590	QPSK	20	24.5	23.34	-0.13	Left	N/A	0	1	49	1:1	0	0.109	1.306	0.142	-
1 905	26590	QPSK	20	23.5	22.50	0.10	Left	N/A	1	50	25	1:1	0	0.091	1.259	0.115	-
1 905	26590	QPSK	20	24.5	23.34	0.14	Right	N/A	0	1	49	1:1	0	0.164	1.306	0.214	-
1 905	26590	QPSK	20	23.5	22.50	0.10	Right	N/A	1	50	25	1:1	0	0.138	1.259	0.174	-
1 860	26140	QPSK	20	20.0	19.34	0.13	Bottom	ON	0	1	99	1:1	0	1.630	1.164	1.897	95
1 860	26140	QPSK	20	20.0	19.39	0.11	Bottom	ON	0	50	49	1:1	0	1.590	1.151	1.830	-
1 905	26590	QPSK	20	24.5	23.34	-0.05	Rear	OFF	0	1	49	1:1	11	0.539	1.306	0.704	-
1 905	26590	QPSK	20	23.5	22.50	-0.06	Rear	OFF	1	50	25	1:1	11	0.439	1.259	0.553	-
1 905	26590	QPSK	20	24.5	23.34	0.05	Front	OFF	0	1	49	1:1	7	0.756	1.306	0.987	-
1 905	26590	QPSK	20	23.5	22.50	-0.02	Front	OFF	1	50	25	1:1	7	0.483	1.259	0.608	-
1 905	26590	QPSK	20	24.5	23.34	0.07	Bottom	OFF	0	1	49	1:1	13	0.545	1.306	0.712	-
1 905	26590	QPSK	20	23.5	22.50	0.19	Bottom	OFF	1	50	25	1:1	13	0.452	1.259	0.569	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram									

LTE Band 66 Phablet SAR10g _Main #1

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
1 770	132572	QPSK	20	19.8	19.23	-0.17	Rear	ON	0	1	49	1:1	0	0.949	1.140	1.082	-
1 770	132572	QPSK	20	19.8	19.47	-0.11	Rear	ON	0	50	25	1:1	0	0.971	1.079	1.048	-
1 770	132572	QPSK	20	19.8	19.23	-0.17	Front	ON	0	1	49	1:1	0	0.463	1.140	0.528	-
1 770	132572	QPSK	20	19.8	19.47	0.14	Front	ON	0	50	25	1:1	0	0.478	1.079	0.516	-
1 720	132072	QPSK	20	24.3	23.49	0.19	Left	N/A	0	1	49	1:1	0	0.320	1.205	0.386	-
1 720	132072	QPSK	20	23.3	22.90	0.17	Left	N/A	1	50	49	1:1	0	0.254	1.096	0.278	-
1 720	132072	QPSK	20	24.3	23.49	0.19	Right	N/A	0	1	49	1:1	0	0.186	1.205	0.224	-
1 720	132072	QPSK	20	23.3	22.90	-0.19	Right	N/A	1	50	49	1:1	0	0.142	1.096	0.156	-
1 770	132572	QPSK	20	19.8	19.23	0.16	Bottom	ON	0	1	49	1:1	0	1.580	1.140	1.801	-
1 770	132572	QPSK	20	19.8	19.47	0.10	Bottom	ON	0	50	25	1:1	0	1.630	1.079	1.759	96
1 720	132072	QPSK	20	24.3	23.49	-0.18	Rear	OFF	0	1	49	1:1	11	0.639	1.205	0.770	-
1 720	132072	QPSK	20	23.3	22.90	-0.10	Rear	OFF	1	50	49	1:1	11	0.526	1.096	0.576	-
1 720	132072	QPSK	20	24.3	23.49	0.09	Front	OFF	0	1	49	1:1	7	0.727	1.205	0.876	-
1 720	132072	QPSK	20	23.3	22.90	-0.09	Front	OFF	1	50	49	1:1	7	0.584	1.096	0.640	-
1 720	132072	QPSK	20	24.3	23.49	0.14	Bottom	OFF	0	1	49	1:1	13	0.608	1.205	0.733	-
1 720	132072	QPSK	20	23.3	22.90	0.10	Bottom	OFF	1	50	49	1:1	13	0.482	1.096	0.528	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram								

NR Band n41 Phablet SAR 10g – Power class 3 - Main #2 Ant.

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	-0.10	Rear	ON	0	1	137	1:1	0	0.248	1.033	0.256	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	-0.01	Rear	ON	0	136	69	1:1	0	0.243	1.035	0.252	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	-0.10	Front	ON	0	1	137	1:1	0	0.248	1.033	0.256	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	0.05	Front	ON	0	136	69	1:1	0	0.235	1.035	0.243	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	-0.10	Left	N/A	0	1	137	1:1	0	0.933	1.033	0.964	97
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	0.14	Left	N/A	0	136	69	1:1	0	0.923	1.035	0.955	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.36	0.16	Bottom	ON	0	1	137	1:1	0	0.240	1.033	0.248	-
2 592.99	518598	DFT-s OFDM QPSK	100	20.5	20.35	0.12	Bottom	ON	0	136	69	1:1	0	0.238	1.035	0.246	-
2 592.99	518598	CP QPSK	100	20.5	19.71	-0.11	Left	N/A	0	1	1	1:1	0	0.387	1.199	0.464	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram								

NR Band n66 Phablet SAR 10g - Main #1 Ant.

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	-0.11	Rear	ON	0	1	53	1:1	0	1.01	1.035	1.045	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.83	0.00	Rear	ON	0	50	56	1:1	0	0.904	1.040	0.940	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	0.00	Front	ON	0	1	53	1:1	0	0.696	1.035	0.720	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.83	0.00	Front	ON	0	50	56	1:1	0	0.652	1.040	0.678	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	0.16	Left	N/A	0	1	53	1:1	0	0.297	1.183	0.351	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	0.16	Left	N/A	1	50	28	1:1	0	0.285	1.282	0.365	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	0.11	Right	N/A	0	1	53	1:1	0	0.168	1.183	0.199	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	-0.00	Right	N/A	1	50	28	1:1	0	0.159	1.282	0.204	-
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.85	0.14	Bottom	ON	0	1	53	1:1	0	1.30	1.035	1.346	98
1 770	354000	DFT-s OFDM QPSK	20	20.0	19.83	0.16	Bottom	ON	0	50	56	1:1	0	1.18	1.040	1.227	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	0.07	Rear	OFF	0	1	53	1:1	11	0.614	1.183	0.726	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	0.12	Rear	OFF	1	50	28	1:1	11	0.643	1.282	0.824	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	-0.10	Front	OFF	0	1	53	1:1	7	0.657	1.183	0.777	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	-0.08	Front	OFF	0	50	28	1:1	7	0.652	1.282	0.836	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	23.27	0.12	Bottom	OFF	0	1	53	1:1	13	0.681	1.183	0.806	-
1 770	354000	DFT-s OFDM QPSK	20	24.0	22.92	0.07	Bottom	OFF	1	50	28	1:1	13	0.654	1.282	0.838	-
1 770	354000	CP QPSK	20	20.0	19.46	0.16	Bottom	ON	0	1	1	1:1	0	1.24	1.132	1.404	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram									

NR Band n77 Phablet SAR 10g - Power Class 3 - Sub #3 Ant.

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.88	-0.02	Rear	N/A	0	1	271	1:1	0	0.474	1.028	0.487	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.82	-0.13	Rear	N/A	0	136	69	1:1	0	0.452	1.042	0.471	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.88	-0.15	Left	N/A	0	1	271	1:1	0	1.08	1.028	1.110	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.82	-0.10	Left	N/A	1	136	69	1:1	0	1.06	1.042	1.105	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.88	0.17	Top	N/A	0	1	271	1:1	0	0.414	1.028	0.426	-
3 840	656000	DFT-s OFDM QPSK	100	18.0	17.82	0.10	Top	N/A	0	136	69	1:1	0	0.388	1.042	0.404	-
3 750	650000	DFT-s OFDM QPSK	100	18.0	17.65	-0.07	Left	N/A	0	1	271	1:1	0	1.14	1.084	1.236	99
3 930	662000	DFT-s OFDM QPSK	100	18.0	17.61	0.14	Left	N/A	0	1	1	1:1	0	0.945	1.094	1.034	-
3 750	650000	DFT-s OFDM QPSK	100	18.0	17.57	-0.17	Left	N/A	0	135	69	1:1	0	0.867	1.104	0.957	-
3 930	662000	DFT-s OFDM QPSK	100	18.0	17.34	-0.10	Left	N/A	0	135	69	1:1	0	0.978	1.164	1.138	-
3 930	662000	DFT-s OFDM QPSK	100	18.0	17.51	-0.16	Left	N/A	0	270	0	1:1	0	0.944	1.119	1.056	-
3 930	662000	CP QPSK	100	18.0	17.51	0.03	Left	N/A	0	1	1	1:1	0	1.04	1.119	1.164	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram								

NR Band n77 Phablet SAR 10g - Power Class 3 (DoD) - Sub #3 Ant.

Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.88	-0.04	Left	N/A	0	1	271	1:1	0	1.13	1.028	1.162	100
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.84	-0.03	Left	N/A	1	136	69	1:1	0	1.10	1.038	1.141	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.88	0.07	Top	N/A	0	1	271	1:1	0	0.464	1.028	0.477	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.0	17.84	0.12	Top	N/A	0	136	69	1:1	0	0.438	1.038	0.454	-
3 500.01	633334	CP QPSK	100	18.0	17.09	-0.10	Left	N/A	0	1	1	1:1	0	0.991	1.233	1.222	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram								

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.																
5 320	64	802.11a	20	6	19.0	18.72	0.17	Rear	Ant1	92.0	0	8.29	0.810	1.067	1.084	0.937	101
5 320	64	802.11a	20	6	19.0	18.72	0.01	Front	Ant1	92.0	0	8.3	0.299	1.067	1.084	0.346	-
5 320	64	802.11a	20	6	19.0	18.72	0.14	Left	Ant1	92.0	0	18.6	0.666	1.067	1.084	0.770	-
5 320	64	802.11a	20	6	19.0	18.72	-0.04	Top	Ant1	92.0	0	3.81	0.168	1.067	1.084	0.194	-
5 620	124	802.11a	20	6	19.0	17.85	0.02	Rear	Ant1	92.0	0	3.81	0.266	1.303	1.084	0.376	-
5 620	124	802.11a	20	6	19.0	17.85	0.02	Front	Ant1	92.0	0	3.26	0.156	1.303	1.084	0.220	-
5 620	124	802.11a	20	6	19.0	17.85	0.03	Left	Ant1	92.0	0	11.1	0.309	1.303	1.084	0.436	-
5 620	124	802.11a	20	6	19.0	17.85	-0.18	Top	Ant1	92.0	0	1.81	0.080	1.303	1.084	0.113	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Hand 4.0 W/kg Averaged over 10 gram					

13.6 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 D01v06.
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 hotspot operation (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 D01v06, 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 D01v06, 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 D01v06, 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 TCBC Workshop 2017 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. This device supports LTE Carrier Aggregation(CA) in Uplink for LTE 41C/48C with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per Fall 2017 TCBC Workshop notes (LTE Carrier aggregation).
For LTE Band 41 and LTE Band 48, per 2017 TCBC Workshop notes ,SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active.
Because the maximum output for UL CA of LTE 41C/48C is $\leq$ standalone LTE mode (without CA), SAR for LTE41C/48C Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is < 1.4 W/kg.
The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
11. 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. Due to Limitations of the SAR measurement equipment, SAR testing for NR was performed using test mode (FTM) software.
2. More detailed specifications of the NR bands are contained in the Technical description document.
3. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
4. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
5. For final implementation, TDD NR slot configuration is synchronized using maximum duty cycle of 100%.
6. Since NR TDD's SAR measurement power level is the same as PC2 and PC3, PC3 mode is higher than PC2 mode when comparing 50% of NR TDD PC2's maximum duty factor and 100% of PC3 with measurement power. Therefore, 100% duty factor was applied to perform SAR measurement.
7. In order to satisfy the limitations of the duty factor of the 5G NR TDD band and the FCC RF exposure, it was tested as n41 band 19.5 dBm and n77 band 17 dBm to which duty factor 100% was applied to all SAR test configurations in the 5G NR TDD mode.

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 were not investigated since the highest reported SAR for initial test configuration adjusted by the ration 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 rated, 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.

14.1 Head SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN & 5 GHz WLAN SAR & BT

Exposure condition	Band	WWAN SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR (Yes/No)
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
		1	2	3	4	1+2	1+3	1+4	3+4	1+3+4	
Head SAR	GSM 850	0.216	0.381	0.150	0.120	0.597	0.366	0.336	0.270	0.486	No
	GPRS 850	0.227	0.381	0.150	0.120	0.608	0.377	0.347	0.270	0.497	No
	GSM 1900	0.033	0.381	0.150	0.120	0.414	0.183	0.153	0.270	0.303	No
	GPRS 1900	0.046	0.381	0.150	0.120	0.427	0.196	0.166	0.270	0.316	No
	UMTS Band 5	0.232	0.381	0.150	0.120	0.613	0.382	0.352	0.270	0.502	No
	UMTS Band 4	0.113	0.381	0.150	0.120	0.494	0.263	0.233	0.270	0.383	No
	UMTS Band 2	0.109	0.381	0.150	0.120	0.490	0.259	0.229	0.270	0.379	No
	LTE Band 7	0.211	0.381	0.150	0.120	0.592	0.361	0.331	0.270	0.481	No
	LTE Band 12	0.189	0.381	0.150	0.120	0.570	0.339	0.309	0.270	0.459	No
	LTE Band 13	0.302	0.381	0.150	0.120	0.683	0.452	0.422	0.270	0.572	No
	LTE Band 14	0.315	0.381	0.150	0.120	0.696	0.465	0.435	0.270	0.585	No
	LTE Band 25 (2)	0.089	0.381	0.150	0.120	0.470	0.239	0.209	0.270	0.359	No
	LTE Band 26 (5)	0.204	0.381	0.150	0.120	0.585	0.354	0.324	0.270	0.474	No
	LTE Band 30	0.120	0.381	0.150	0.120	0.501	0.270	0.240	0.270	0.390	No
	LTE Band 40 Low	0.007	0.381	0.150	0.120	0.388	0.157	0.127	0.270	0.277	No
	LTE Band 40 Upper	0.006	0.381	0.150	0.120	0.387	0.156	0.126	0.270	0.276	No
	LTE Band 41	0.227	0.381	0.150	0.120	0.608	0.377	0.347	0.270	0.497	No
	LTE Band 48	0.695	0.381	0.150	0.120	1.076	0.845	0.815	0.270	0.965	No
	LTE Band 66 (4)	0.069	0.381	0.150	0.120	0.450	0.219	0.189	0.270	0.339	No
	LTE Band 71	0.168	0.381	0.150	0.120	0.549	0.318	0.288	0.270	0.438	No
	NR Band n5	0.128	0.381	0.150	0.120	0.509	0.278	0.248	0.270	0.398	No
	NR Band n12	0.035	0.381	0.150	0.120	0.416	0.185	0.155	0.270	0.305	No
	NR Band n25 (n2)	0.138	0.381	0.150	0.120	0.519	0.288	0.258	0.270	0.408	No
	NR Band n30	0.323	0.381	0.150	0.120	0.704	0.473	0.443	0.270	0.593	No
	NR Band n41 (PC3) Main 2	0.176	0.381	0.150	0.120	0.557	0.326	0.296	0.270	0.446	No
	NR Band n41 (PC3) Sub 2	0.702	0.381	0.150	0.120	1.083	0.852	0.822	0.270	0.972	No
	NR Band n66	0.110	0.381	0.150	0.120	0.491	0.260	0.230	0.270	0.380	No
	NR Band n71	0.190	0.381	0.150	0.120	0.571	0.340	0.310	0.270	0.460	No
	NR Band n77 (PC3)	0.747	0.381	0.150	0.120	1.128	0.897	0.867	0.270	1.017	No
	NR Band n77 (PC3) DoD	0.611	0.381	0.150	0.120	0.992	0.761	0.731	0.270	0.881	No

Simultaneous Transmission Summation Scenario (Head SAR)

Band		NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (EN-DC)	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No
NR Band n5	LTE Band 7	0.128	0.211	0.381	0.150	0.120	0.339	0.720	0.489	0.459	0.609	No
	LTE Band 30	0.128	0.120	0.381	0.150	0.120	0.248	0.629	0.398	0.368	0.518	No
	LTE Band 48	0.128	0.695	0.381	0.150	0.120	0.823	1.204	0.973	0.943	1.093	No
	LTE Band 66	0.128	0.069	0.381	0.150	0.120	0.197	0.578	0.347	0.317	0.467	No
NR Band n12	LTE Band 66	0.035	0.069	0.381	0.150	0.120	0.104	0.485	0.254	0.224	0.374	No
NR Band n25 (n2)	LTE Band 12	0.138	0.189	0.381	0.150	0.120	0.327	0.708	0.477	0.447	0.597	No
	LTE Band 48	0.138	0.695	0.381	0.150	0.120	0.833	1.214	0.983	0.953	1.103	No
NR Band n30	LTE Band 5(26)	0.323	0.204	0.381	0.150	0.120	0.527	0.908	0.677	0.647	0.797	No
	LTE Band 12	0.323	0.189	0.381	0.150	0.120	0.512	0.893	0.662	0.632	0.782	No
	LTE Band 14	0.323	0.315	0.381	0.150	0.120	0.638	1.019	0.788	0.758	0.908	No
NR Band n41 (PC3) Main 2	LTE Band 12	0.176	0.189	0.381	0.150	0.120	0.365	0.746	0.515	0.485	0.635	No
NR Band n41 (PC3) Sub 2	LTE Band 25	0.702	0.089	0.381	0.150	0.120	0.791	1.172	0.941	0.911	1.061	No
	LTE Band 66	0.702	0.069	0.381	0.150	0.120	0.771	1.152	0.921	0.891	1.041	No
NR Band n66	LTE Band 5(26)	0.110	0.204	0.381	0.150	0.120	0.314	0.695	0.464	0.434	0.584	No
	LTE Band 12	0.110	0.189	0.381	0.150	0.120	0.299	0.680	0.449	0.419	0.569	No
	LTE Band 13	0.110	0.302	0.381	0.150	0.120	0.412	0.793	0.562	0.532	0.682	No
	LTE Band 14	0.110	0.315	0.381	0.150	0.120	0.425	0.806	0.575	0.545	0.695	No
	LTE Band 48	0.110	0.695	0.381	0.150	0.120	0.805	1.186	0.955	0.925	1.075	No
	LTE Band 71	0.110	0.168	0.381	0.150	0.120	0.278	0.659	0.428	0.398	0.548	No
NR Band n71	LTE Band 7	0.190	0.211	0.381	0.150	0.120	0.401	0.782	0.551	0.521	0.671	No
	LTE Band 66	0.190	0.069	0.381	0.150	0.120	0.259	0.640	0.409	0.379	0.529	No
NR n77(PC3)	LTE Band 5(26)	0.747	0.204	0.381	0.150	0.120	0.951	1.332	1.101	1.071	1.221	No
	LTE Band 7	0.747	0.211	0.381	0.150	0.120	0.958	1.339	1.108	1.078	1.228	No
	LTE Band 12	0.747	0.189	0.381	0.150	0.120	0.936	1.317	1.086	1.056	1.206	No
	LTE Band 13	0.747	0.302	0.381	0.150	0.120	1.049	1.430	1.199	1.169	1.319	No
	LTE Band 14	0.747	0.315	0.381	0.150	0.120	1.062	1.443	1.212	1.182	1.332	No
	LTE Band 30	0.747	0.120	0.381	0.150	0.120	0.867	1.248	1.017	0.987	1.137	No
	LTE Band 66	0.747	0.069	0.381	0.150	0.120	0.816	1.197	0.966	0.936	1.086	No
NR n77(PC3) DoD	LTE Band 5(26)	0.611	0.204	0.381	0.150	0.120	0.815	1.196	0.965	0.935	1.085	No
	LTE Band 7	0.611	0.211	0.381	0.150	0.120	0.822	1.203	0.972	0.942	1.092	No
	LTE Band 12	0.611	0.189	0.381	0.150	0.120	0.800	1.181	0.950	0.920	1.070	No
	LTE Band 13	0.611	0.302	0.381	0.150	0.120	0.913	1.294	1.063	1.033	1.183	No
	LTE Band 14	0.611	0.315	0.381	0.150	0.120	0.926	1.307	1.076	1.046	1.196	No
	LTE Band 30	0.611	0.120	0.381	0.150	0.120	0.731	1.112	0.881	0.851	1.001	No
	LTE Band 66	0.611	0.069	0.381	0.150	0.120	0.680	1.061	0.830	0.800	0.950	No

14.2 Body-Worn SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN & 5 GHz WLAN SAR & BT

Exposure condition	Distance (mm)	Band	WWAN SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	1+2	1+3	1+4	3+4	1+3+4	
Body-worn	15	GSM 850	0.290	0.207	0.288	0.130	0.497	0.578	0.420	0.418	0.708	No
		GPRS 850	0.302	0.207	0.288	0.130	0.509	0.590	0.432	0.418	0.720	No
		GSM 1900	0.304	0.207	0.288	0.130	0.511	0.592	0.434	0.418	0.722	No
		GPRS 1900	0.285	0.207	0.288	0.130	0.492	0.573	0.415	0.418	0.703	No
		UMTS Band 5	0.355	0.207	0.288	0.130	0.562	0.643	0.485	0.418	0.773	No
		UMTS Band 4	0.389	0.207	0.288	0.130	0.596	0.677	0.519	0.418	0.807	No
		UMTS Band 2	0.799	0.207	0.288	0.130	1.006	1.087	0.929	0.418	1.217	No
		LTE Band 7	0.247	0.207	0.288	0.130	0.454	0.535	0.377	0.418	0.665	No
		LTE Band 12	0.318	0.207	0.288	0.130	0.525	0.606	0.448	0.418	0.736	No
		LTE Band 13	0.425	0.207	0.288	0.130	0.632	0.713	0.555	0.418	0.843	No
		LTE Band 14	0.436	0.207	0.288	0.130	0.643	0.724	0.566	0.418	0.854	No
		LTE Band 25 (2)	0.646	0.207	0.288	0.130	0.853	0.934	0.776	0.418	1.064	No
		LTE Band 26 (5)	0.308	0.207	0.288	0.130	0.515	0.596	0.438	0.418	0.726	No
		LTE Band 30	0.255	0.207	0.288	0.130	0.462	0.543	0.385	0.418	0.673	No
		LTE Band 40 Low	0.009	0.207	0.288	0.130	0.216	0.297	0.139	0.418	0.427	No
		LTE Band 40 Upper	0.009	0.207	0.288	0.130	0.216	0.297	0.139	0.418	0.427	No
		LTE Band 41	0.232	0.207	0.288	0.130	0.439	0.520	0.362	0.418	0.650	No
		LTE Band 48	0.291	0.207	0.288	0.130	0.498	0.579	0.421	0.418	0.709	No
		LTE Band 66 (4)	0.441	0.207	0.288	0.130	0.648	0.729	0.571	0.418	0.859	No
		LTE Band 71	0.286	0.207	0.288	0.130	0.493	0.574	0.416	0.418	0.704	No
		NR Band n5	0.204	0.207	0.288	0.130	0.411	0.492	0.334	0.418	0.622	No
		NR Band n12	0.133	0.207	0.288	0.130	0.340	0.421	0.263	0.418	0.551	No
		NR Band n25 (n2)	0.646	0.207	0.288	0.130	0.853	0.934	0.776	0.418	1.064	No
		NR Band n30	0.462	0.207	0.288	0.130	0.669	0.750	0.592	0.418	0.880	No
		NR Band n41 (PC3) Main 2	0.162	0.207	0.288	0.130	0.369	0.450	0.292	0.418	0.580	No
		NR Band n41 (PC3) Sub 2	0.088	0.207	0.288	0.130	0.295	0.376	0.218	0.418	0.506	No
		NR Band n66	0.672	0.207	0.288	0.130	0.879	0.960	0.802	0.418	1.090	No
		NR Band n71	0.229	0.207	0.288	0.130	0.436	0.517	0.359	0.418	0.647	No
		NR Band n77 (PC3)	0.093	0.207	0.288	0.130	0.300	0.381	0.223	0.418	0.511	No
		NR Band n77 (PC3) DoD	0.106	0.207	0.288	0.130	0.313	0.394	0.236	0.418	0.524	No

Simultaneous Transmission Summation Scenario (Body-worn) 15 mm

Band			NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	Σ 1-g SAR (EN-DC)	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLS R
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No)
NR Band n5	LTE Band 7	Rear	0.204	0.247	0.207	0.288	0.130	0.451	0.658	0.739	0.581	0.869	No
		Front	0.144	0.204	0.126	0.125	0.123	0.348	0.474	0.473	0.471	0.596	No
	LTE Band 30	Rear	0.204	0.255	0.207	0.288	0.130	0.459	0.666	0.747	0.589	0.877	No
		Front	0.144	0.173	0.126	0.125	0.123	0.317	0.443	0.442	0.44	0.565	No
	LTE Band 48	Rear	0.204	0.291	0.207	0.288	0.130	0.495	0.702	0.783	0.625	0.913	No
		Front	0.144	0.112	0.126	0.125	0.123	0.256	0.382	0.381	0.379	0.504	No
	LTE Band 66	Rear	0.204	0.441	0.207	0.288	0.130	0.645	0.852	0.933	0.775	1.063	No
		Front	0.144	0.260	0.126	0.125	0.123	0.404	0.530	0.529	0.527	0.652	No
NR Band n12	LTE Band 66	Rear	0.133	0.441	0.207	0.288	0.130	0.574	0.781	0.862	0.704	0.992	No
		Front	0.037	0.260	0.126	0.125	0.123	0.297	0.423	0.422	0.420	0.545	No
NR Band n25 (n2)	LTE Band 12	Rear	0.646	0.318	0.207	0.288	0.130	0.964	1.171	1.252	1.094	1.382	No
		Front	0.459	0.246	0.126	0.125	0.123	0.705	0.831	0.830	0.828	0.953	No
	LTE Band 48	Rear	0.646	0.291	0.207	0.288	0.130	0.937	1.144	1.225	1.067	1.355	No
		Front	0.459	0.112	0.126	0.125	0.123	0.571	0.697	0.696	0.694	0.819	No
NR Band n30	LTE Band 26(5)	Rear	0.462	0.308	0.207	0.288	0.130	0.77	0.977	1.058	0.900	1.188	No
		Front	0.334	0.256	0.126	0.125	0.123	0.59	0.716	0.715	0.713	0.838	No
	LTE Band 12	Rear	0.462	0.318	0.207	0.288	0.130	0.78	0.987	1.068	0.910	1.198	No
		Front	0.334	0.246	0.126	0.125	0.123	0.58	0.706	0.705	0.703	0.828	No
	LTE Band 14	Rear	0.462	0.436	0.207	0.288	0.130	0.898	1.105	1.186	1.028	1.316	No
		Front	0.334	0.329	0.126	0.125	0.123	0.663	0.789	0.788	0.786	0.911	No
NR Band n41 (PC3) Main 2	LTE Band 12	Rear	0.145	0.318	0.207	0.288	0.130	0.463	0.670	0.751	0.593	0.881	No
		Front	0.162	0.246	0.126	0.125	0.123	0.408	0.534	0.533	0.531	0.656	No
		Front	0.162	0.260	0.126	0.125	0.123	0.422	0.548	0.547	0.545	0.670	No
NR Band n41 (PC3) Sub 2	LTE Band 25	Rear	0.088	0.646	0.207	0.288	0.130	0.734	0.941	1.022	0.864	1.152	No
		Front	0.055	0.384	0.126	0.125	0.123	0.439	0.565	0.564	0.562	0.687	No
	LTE Band 66	Rear	0.088	0.441	0.207	0.288	0.130	0.529	0.736	0.817	0.659	0.947	No
		Front	0.055	0.260	0.126	0.125	0.123	0.315	0.441	0.440	0.438	0.563	No
NR Band n66	LTE Band 26(5)	Rear	0.672	0.308	0.207	0.288	0.130	0.980	1.187	1.268	1.110	1.398	No
		Front	0.403	0.256	0.126	0.125	0.123	0.659	0.785	0.784	0.782	0.907	No
	LTE Band 12	Rear	0.672	0.318	0.207	0.288	0.130	0.99	1.197	1.278	1.120	1.408	No
		Front	0.403	0.246	0.126	0.125	0.123	0.649	0.775	0.774	0.772	0.897	No
	LTE Band 13	Rear	0.672	0.425	0.207	0.288	0.130	1.097	1.304	1.385	1.227	1.515	No
		Front	0.403	0.372	0.126	0.125	0.123	0.775	0.901	0.900	0.898	1.023	No
	LTE Band 14	Rear	0.672	0.436	0.207	0.288	0.130	1.108	1.315	1.396	1.238	1.526	No
		Front	0.403	0.329	0.126	0.125	0.123	0.732	0.858	0.857	0.855	0.980	No
	LTE Band 48	Rear	0.672	0.291	0.207	0.288	0.130	0.963	1.170	1.251	1.093	1.381	No
		Front	0.403	0.112	0.126	0.125	0.123	0.515	0.641	0.64	0.638	0.763	No
	LTE Band 71	Rear	0.672	0.286	0.207	0.288	0.130	0.958	1.165	1.246	1.088	1.376	No
		Front	0.403	0.206	0.126	0.125	0.123	0.609	0.735	0.734	0.732	0.857	No

Simultaneous Transmission Summation Scenario (Body-worn) 15 mm

Band			NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (EN-DC)	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLS R
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No
NR Band n71	LTE Band 7	Rear	0.229	0.247	0.207	0.288	0.130	0.476	0.683	0.764	0.606	0.894	No
		Front	0.185	0.204	0.126	0.125	0.123	0.389	0.515	0.514	0.512	0.637	No
	LTE Band 66	Rear	0.229	0.441	0.207	0.288	0.130	0.670	0.877	0.958	0.800	1.088	No
		Front	0.185	0.260	0.126	0.125	0.123	0.445	0.571	0.570	0.568	0.693	No
NR n77(PC3)	LTE Band 26(5)	Rear	0.093	0.308	0.207	0.288	0.130	0.401	0.608	0.689	0.531	0.819	No
		Front	0.061	0.256	0.126	0.125	0.123	0.317	0.443	0.442	0.440	0.565	No
	LTE Band 7	Rear	0.093	0.247	0.207	0.288	0.130	0.340	0.547	0.628	0.470	0.758	No
		Front	0.061	0.204	0.126	0.125	0.123	0.265	0.391	0.390	0.388	0.513	No
	LTE Band 12	Rear	0.093	0.318	0.207	0.288	0.130	0.411	0.618	0.699	0.541	0.829	No
		Front	0.061	0.246	0.126	0.125	0.123	0.307	0.433	0.432	0.430	0.555	No
	LTE Band 13	Rear	0.093	0.425	0.207	0.288	0.130	0.518	0.725	0.806	0.648	0.936	No
		Front	0.061	0.372	0.126	0.125	0.123	0.433	0.559	0.558	0.556	0.681	No
	LTE Band 14	Rear	0.093	0.436	0.207	0.288	0.130	0.529	0.736	0.817	0.659	0.947	No
		Front	0.061	0.329	0.126	0.125	0.123	0.390	0.516	0.515	0.513	0.638	No
	LTE Band 30	Rear	0.093	0.255	0.207	0.288	0.130	0.348	0.555	0.636	0.478	0.766	No
		Front	0.061	0.173	0.126	0.125	0.123	0.234	0.360	0.359	0.357	0.482	No
	LTE Band 66	Rear	0.093	0.441	0.207	0.288	0.130	0.534	0.741	0.822	0.664	0.952	No
		Front	0.061	0.260	0.126	0.125	0.123	0.321	0.447	0.446	0.444	0.569	No
NR n77(PC3) DoD	LTE Band 26(5)	Rear	0.106	0.308	0.207	0.288	0.130	0.414	0.621	0.702	0.544	0.832	No
		Front	0.048	0.256	0.126	0.125	0.123	0.304	0.43	0.429	0.427	0.552	No
	LTE Band 7	Rear	0.106	0.247	0.207	0.288	0.130	0.353	0.560	0.641	0.483	0.771	No
		Front	0.048	0.204	0.126	0.125	0.123	0.252	0.378	0.377	0.375	0.500	No
	LTE Band 12	Rear	0.106	0.318	0.207	0.288	0.130	0.424	0.631	0.712	0.554	0.842	No
		Front	0.048	0.246	0.126	0.125	0.123	0.294	0.420	0.419	0.417	0.542	No
	LTE Band 13	Rear	0.106	0.425	0.207	0.288	0.130	0.531	0.738	0.819	0.661	0.949	No
		Front	0.048	0.372	0.126	0.125	0.123	0.42	0.546	0.545	0.543	0.668	No
	LTE Band 14	Rear	0.106	0.436	0.207	0.288	0.130	0.542	0.749	0.83	0.672	0.96	No
		Front	0.048	0.329	0.126	0.125	0.123	0.377	0.503	0.502	0.500	0.625	No
	LTE Band 30	Rear	0.106	0.255	0.207	0.288	0.130	0.361	0.568	0.649	0.491	0.779	No
		Front	0.048	0.173	0.126	0.125	0.123	0.221	0.347	0.346	0.344	0.469	No
	LTE Band 66	Rear	0.106	0.441	0.207	0.288	0.130	0.547	0.754	0.835	0.677	0.965	No
		Front	0.048	0.260	0.126	0.125	0.123	0.308	0.434	0.433	0.431	0.556	No

14.3 Hotspot SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN & 5 GHz WLAN SAR & BT (10 mm)											
Band		WWAN SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	3+4	1+3+4	
GPRS 850	Rear	0.637	0.332	0.096	0.192	0.969	0.733	0.829	0.288	0.925	No
	Front	0.335	0.240	0.021	0.142	0.575	0.356	0.477	0.163	0.498	No
	Left	0.113	0.194	0.318	0.079	0.307	0.431	0.192	0.397	0.510	No
	Right	0.321				0.321	0.321	0.321	0.000	0.321	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.325				0.325	0.325	0.325	0.000	0.325	No
GPRS 1900	Rear	0.208	0.332	0.096	0.192	0.540	0.304	0.400	0.288	0.496	No
	Front	0.124	0.240	0.021	0.142	0.364	0.145	0.266	0.163	0.287	No
	Left	0.014	0.194	0.318	0.079	0.208	0.332	0.093	0.397	0.411	No
	Right	0.024				0.024	0.024	0.024	0.000	0.024	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.255				0.255	0.255	0.255	0.000	0.255	No
UMTS Band 5	Rear	0.649	0.332	0.096	0.192	0.981	0.745	0.841	0.288	0.937	No
	Front	0.445	0.240	0.021	0.142	0.685	0.466	0.587	0.163	0.608	No
	Left	0.085	0.194	0.318	0.079	0.279	0.403	0.164	0.397	0.482	No
	Right	0.199				0.199	0.199	0.199	0.000	0.199	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.272				0.272	0.272	0.272	0.000	0.272	No
UMTS Band 4	Rear	0.273	0.332	0.096	0.192	0.605	0.369	0.465	0.288	0.561	No
	Front	0.196	0.240	0.021	0.142	0.436	0.217	0.338	0.163	0.359	No
	Left	0.083	0.194	0.318	0.079	0.277	0.401	0.162	0.397	0.480	No
	Right	0.062				0.062	0.062	0.062	0.000	0.062	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.250				0.250	0.250	0.250	0.000	0.250	No
UMTS Band 2	Rear	0.635	0.332	0.096	0.192	0.967	0.731	0.827	0.288	0.923	No
	Front	0.443	0.240	0.021	0.142	0.683	0.464	0.585	0.163	0.606	No
	Left	0.046	0.194	0.318	0.079	0.240	0.364	0.125	0.397	0.443	No
	Right	0.076				0.076	0.076	0.076	0.000	0.076	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	1.114				1.114	1.114	1.114	0.000	1.114	No
LTE Band 7	Rear	0.264	0.332	0.096	0.192	0.596	0.360	0.456	0.288	0.552	No
	Front	0.184	0.240	0.021	0.142	0.424	0.205	0.326	0.163	0.347	No
	Left	0.130	0.194	0.318	0.079	0.324	0.448	0.209	0.397	0.527	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.421				0.421	0.421	0.421	0.000	0.421	No
LTE Band 12	Rear	0.453	0.332	0.096	0.192	0.785	0.549	0.645	0.288	0.741	No
	Front	0.357	0.240	0.021	0.142	0.597	0.378	0.499	0.163	0.520	No
	Left	0.120	0.194	0.318	0.079	0.314	0.438	0.199	0.397	0.517	No
	Right	0.280				0.280	0.280	0.280	0.000	0.280	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.190				0.190	0.190	0.190	0.000	0.190	No

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN & 5 GHz WLAN SAR & BT (10 mm)											
Band		WWAN SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	3+4	1+3+4	
LTE Band 13	Rear	0.718	0.332	0.096	0.192	1.050	0.814	0.910	0.288	1.006	No
	Front	0.432	0.240	0.021	0.142	0.672	0.453	0.574	0.163	0.595	No
	Left	0.240	0.194	0.318	0.079	0.434	0.558	0.319	0.397	0.637	No
	Right	0.493				0.493	0.493	0.493	0.000	0.493	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.293				0.293	0.293	0.293	0.000	0.293	No
LTE Band 14	Rear	0.728	0.332	0.096	0.192	1.060	0.824	0.920	0.288	1.016	No
	Front	0.425	0.240	0.021	0.142	0.665	0.446	0.567	0.163	0.588	No
	Left	0.207	0.194	0.318	0.079	0.401	0.525	0.286	0.397	0.604	No
	Right	0.498				0.498	0.498	0.498	0.000	0.498	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.307				0.307	0.307	0.307	0.000	0.307	No
LTE Band 25 (2)	Rear	0.501	0.332	0.096	0.192	0.833	0.597	0.693	0.288	0.789	No
	Front	0.300	0.240	0.021	0.142	0.540	0.321	0.442	0.163	0.463	No
	Left	0.026	0.194	0.318	0.079	0.220	0.344	0.105	0.397	0.423	No
	Right	0.078				0.078	0.078	0.078	0.000	0.078	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.734				0.734	0.734	0.734	0.000	0.734	No
LTE Band 26 (5)	Rear	0.586	0.332	0.096	0.192	0.918	0.682	0.778	0.288	0.874	No
	Front	0.362	0.240	0.021	0.142	0.602	0.383	0.504	0.163	0.525	No
	Left	0.208	0.194	0.318	0.079	0.402	0.526	0.287	0.397	0.605	No
	Right	0.369				0.369	0.369	0.369	0.000	0.369	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.312				0.312	0.312	0.312	0.000	0.312	No
LTE Band 30	Rear	0.303	0.332	0.096	0.192	0.635	0.399	0.495	0.288	0.591	No
	Front	0.199	0.240	0.021	0.142	0.439	0.220	0.341	0.163	0.362	No
	Left	0.174	0.194	0.318	0.079	0.368	0.492	0.253	0.397	0.571	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.511				0.511	0.511	0.511	0.000	0.511	No
LTE Band 40 (Lower)	Rear	0.025	0.332	0.096	0.192	0.357	0.121	0.217	0.288	0.313	No
	Front	0.017	0.240	0.021	0.142	0.257	0.038	0.159	0.163	0.180	No
	Left	0.012	0.194	0.318	0.079	0.206	0.330	0.091	0.398	0.409	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.041				0.041	0.041	0.041	0.000	0.041	No
LTE Band 40 (Upper)	Rear	0.021	0.332	0.096	0.192	0.353	0.117	0.213	0.288	0.309	No
	Front	0.016	0.240	0.021	0.142	0.256	0.037	0.158	0.162	0.179	No
	Left	0.008	0.194	0.318	0.079	0.202	0.326	0.087	0.396	0.405	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.036				0.036	0.036	0.036	0.000	0.036	No

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN & 5 GHz WLAN SAR & BT (10 mm)											
Band		WWAN SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	3+4	1+3+4	
LTE Band 41 (38)	Rear	0.104	0.332	0.096	0.192	0.436	0.200	0.296	0.288	0.392	No
	Front	0.091	0.240	0.021	0.142	0.331	0.112	0.233	0.163	0.254	No
	Left	0.060	0.194	0.318	0.079	0.254	0.378	0.139	0.397	0.457	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.294				0.294	0.294	0.294	0.000	0.294	No
LTE Band 48	Rear	0.170	0.332	0.096	0.192	0.502	0.266	0.362	0.288	0.458	No
	Front	0.065	0.240	0.021	0.142	0.305	0.086	0.207	0.163	0.228	No
	Left	0.414	0.194	0.318	0.079	0.608	0.732	0.493	0.397	0.811	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top	0.259	0.520	0.116	0.351	0.779	0.375	0.610	0.467	0.726	No
	Bottom					0.000	0.000	0.000	0.000	0.000	No
LTE Band 66 (4)	Rear	0.579	0.332	0.096	0.192	0.911	0.675	0.771	0.288	0.867	No
	Front	0.333	0.240	0.021	0.142	0.573	0.354	0.475	0.163	0.496	No
	Left	0.068	0.194	0.318	0.079	0.262	0.386	0.147	0.397	0.465	No
	Right	0.059				0.059	0.059	0.059	0.000	0.059	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.764				0.764	0.764	0.764	0.000	0.764	No
LTE Band 71	Rear	0.411	0.332	0.096	0.192	0.743	0.507	0.603	0.288	0.699	No
	Front	0.270	0.240	0.021	0.142	0.510	0.291	0.412	0.163	0.433	No
	Left	0.273	0.194	0.318	0.079	0.467	0.591	0.352	0.397	0.670	No
	Right	0.298				0.298	0.298	0.298	0.000	0.298	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.127				0.127	0.127	0.127	0.000	0.127	No

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN & 5 GHz WLAN SAR & BT (10 mm)											
Band		WWAN SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	3+4	1+3+4	
NR Band n5	Rear	0.421	0.332	0.096	0.192	0.753	0.517	0.613	0.288	0.709	No
	Front	0.218	0.240	0.021	0.142	0.458	0.239	0.360	0.163	0.381	No
	Left	0.069	0.194	0.318	0.079	0.263	0.387	0.148	0.397	0.466	No
	Right	0.133				0.133	0.133	0.133	0.000	0.133	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.315				0.315	0.315	0.315	0.000	0.315	No
NR Band n12	Rear	0.077	0.332	0.096	0.192	0.409	0.173	0.269	0.288	0.365	No
	Front	0.041	0.240	0.021	0.142	0.281	0.062	0.183	0.163	0.204	No
	Left	0.020	0.194	0.318	0.079	0.214	0.338	0.099	0.397	0.417	No
	Right	0.034				0.034	0.034	0.034	0.000	0.034	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.055				0.055	0.055	0.055	0.000	0.055	No
NR Band n25 (n2)	Rear	0.465	0.332	0.096	0.192	0.797	0.561	0.657	0.288	0.753	No
	Front	0.195	0.240	0.021	0.142	0.435	0.216	0.337	0.163	0.358	No
	Left	0.061	0.194	0.318	0.079	0.255	0.379	0.140	0.397	0.458	No
	Right	0.044				0.044	0.044	0.044	0.000	0.044	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.755				0.755	0.755	0.755	0.000	0.755	No
NR Band n30	Rear	0.272	0.332	0.096	0.192	0.604	0.368	0.464	0.288	0.560	No
	Front	0.126	0.240	0.021	0.142	0.366	0.147	0.268	0.163	0.289	No
	Left	0.073	0.194	0.318	0.079	0.267	0.391	0.152	0.397	0.470	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.199				0.199	0.199	0.199	0.000	0.199	No
NR Band n41 Main 2	Rear	0.267	0.332	0.096	0.192	0.599	0.363	0.459	0.288	0.555	No
	Front	0.239	0.240	0.021	0.142	0.479	0.260	0.381	0.163	0.402	No
	Left	0.219	0.194	0.318	0.079	0.413	0.537	0.298	0.397	0.616	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.567				0.567	0.567	0.567	0.000	0.567	No
NR Band n41 Sub 2	Rear	0.139	0.332	0.096	0.192	0.471	0.235	0.331	0.288	0.427	No
	Front	0.130	0.240	0.021	0.142	0.370	0.151	0.272	0.163	0.293	No
	Left	0.047	0.194	0.318	0.079	0.241	0.365	0.126	0.397	0.444	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top	0.289	0.520	0.116	0.351	0.809	0.405	0.640	0.467	0.756	No
	Bottom					0.000	0.000	0.000	0.000	0.000	No

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant WLAN & 5 GHz WLAN SAR & BT (10 mm)											
Band		WWAN SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	$\sum$ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	3+4	1+3+4	
NR Band n66	Rear	0.520	0.332	0.096	0.192	0.852	0.616	0.712	0.288	0.808	No
	Front	0.252	0.240	0.021	0.142	0.492	0.273	0.394	0.163	0.415	No
	Left	0.046	0.194	0.318	0.079	0.240	0.364	0.125	0.397	0.443	No
	Right	0.047				0.047	0.047	0.047	0.000	0.047	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.686				0.686	0.686	0.686	0.686	0.686	No
NR Band n71	Rear	0.283	0.332	0.096	0.192	0.615	0.379	0.475	0.288	0.571	No
	Front	0.192	0.240	0.021	0.142	0.432	0.213	0.334	0.163	0.355	No
	Left	0.090	0.194	0.318	0.079	0.284	0.408	0.169	0.397	0.487	No
	Right	0.180				0.180	0.180	0.180	0.000	0.180	No
	Top		0.520	0.116	0.351	0.520	0.116	0.351	0.467	0.467	No
	Bottom	0.156				0.156	0.156	0.156	0.000	0.156	No
NR Band n77 (PC3)	Rear	0.185	0.332	0.096	0.192	0.517	0.281	0.377	0.288	0.473	No
	Front	0.102	0.240	0.021	0.142	0.342	0.123	0.244	0.163	0.265	No
	Left	0.348	0.194	0.318	0.079	0.542	0.666	0.427	0.397	0.745	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top	0.175	0.520	0.116	0.351	0.695	0.291	0.526	0.467	0.642	No
	Bottom					0.000	0.000	0.000	0.000	0.000	No
NR Band n77 (PC3) DoD	Rear	0.144	0.332	0.096	0.192	0.476	0.240	0.336	0.288	0.432	No
	Front	0.183	0.240	0.021	0.142	0.423	0.204	0.325	0.163	0.346	No
	Left	0.185	0.194	0.318	0.079	0.379	0.503	0.264	0.397	0.582	No
	Right					0.000	0.000	0.000	0.000	0.000	No
	Top	0.195	0.520	0.116	0.351	0.715	0.311	0.546	0.467	0.662	No
	Bottom					0.000	0.000	0.000	0.000	0.000	No

Simultaneous Transmission Summation Scenario (Hotspot) 10 mm													
Band			NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (EN-DC)	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No
NR Band n5	LTE Band 7	Rear	0.421	0.264	0.332	0.096	0.192	0.685	1.017	0.781	0.877	0.973	No
		Front	0.218	0.184	0.240	0.021	0.142	0.402	0.642	0.423	0.544	0.565	No
		Left	0.069	0.130	0.194	0.318	0.079	0.199	0.393	0.517	0.278	0.596	No
		Right	0.133					0.133	0.133	0.133	0.133	0.133	No
		Top			0.520	0.116	0.351		0.520	0.116	0.351	0.467	No
		Bottom	0.315	0.421				0.736	0.736	0.736	0.736	0.736	No
	LTE Band 30	Rear	0.421	0.303	0.332	0.096	0.192	0.724	1.056	0.820	0.916	1.012	No
		Front	0.218	0.199	0.240	0.021	0.142	0.417	0.657	0.438	0.559	0.580	No
		Left	0.069	0.174	0.194	0.318	0.079	0.243	0.437	0.561	0.322	0.640	No
		Right	0.133					0.133	0.133	0.133	0.133	0.133	No
		Top			0.520	0.116	0.351		0.520	0.116	0.351	0.467	No
		Bottom	0.315	0.511				0.826	0.826	0.826	0.826	0.826	No
	LTE Band 48	Rear	0.421	0.170	0.332	0.096	0.192	0.591	0.923	0.687	0.783	0.879	No
		Front	0.218	0.065	0.240	0.021	0.142	0.283	0.523	0.304	0.425	0.446	No
		Left	0.069	0.414	0.194	0.318	0.079	0.483	0.677	0.801	0.562	0.880	No
		Right	0.133					0.133	0.133	0.133	0.133	0.133	No
		Top		0.259	0.520	0.116	0.351	0.259	0.779	0.375	0.610	0.726	No
		Bottom	0.315					0.315	0.315	0.315	0.315	0.315	No
	LTE Band 66	Rear	0.421	0.579	0.332	0.096	0.192	1.000	1.332	1.096	1.192	1.288	No
		Front	0.218	0.333	0.240	0.021	0.142	0.551	0.791	0.572	0.693	0.714	No
		Left	0.069	0.068	0.194	0.318	0.079	0.137	0.331	0.455	0.216	0.534	No
		Right	0.133	0.059				0.192	0.192	0.192	0.192	0.192	No
		Top			0.520	0.116	0.351		0.520	0.116	0.351	0.467	No
		Bottom	0.315	0.764				1.079	1.079	1.079	1.079	1.079	No
NR Band n12	LTE Band 66	Rear	0.077	0.579	0.332	0.096	0.192	0.656	0.988	0.752	0.848	0.944	No
		Front	0.041	0.333	0.240	0.021	0.142	0.374	0.614	0.395	0.516	0.537	No
		Left	0.020	0.068	0.194	0.318	0.079	0.088	0.282	0.406	0.167	0.485	No
		Right	0.034	0.059				0.093	0.093	0.093	0.093	0.093	No
		Top			0.520	0.116	0.351		0.520	0.116	0.351	0.467	No
		Bottom	0.055	0.764				0.819	0.819	0.819	0.819	0.819	No
NR Band n25 (n2)	LTE Band 12	Rear	0.465	0.453	0.332	0.096	0.192	0.918	1.250	1.014	1.110	1.206	No
		Front	0.195	0.357	0.240	0.021	0.142	0.552	0.792	0.573	0.694	0.715	No
		Left	0.061	0.120	0.194	0.318	0.079	0.181	0.375	0.499	0.26	0.578	No
		Right	0.044	0.280				0.324	0.324	0.324	0.324	0.324	No
		Top			0.520	0.116	0.351		0.520	0.116	0.351	0.467	No
		Bottom	0.755	0.190				0.945	0.945	0.945	0.945	0.945	No
	LTE Band 48	Rear	0.465	0.170	0.332	0.096	0.192	0.635	0.967	0.731	0.827	0.923	No
		Front	0.195	0.065	0.240	0.021	0.142	0.260	0.500	0.281	0.402	0.423	No
		Left	0.061	0.414	0.194	0.318	0.079	0.475	0.669	0.793	0.554	0.872	No
		Right	0.044					0.044	0.044	0.044	0.044	0.044	No
		Top		0.259	0.520	0.116	0.351	0.259	0.779	0.375	0.61	0.726	No
		Bottom	0.755					0.755	0.755	0.755	0.755	0.755	No

Simultaneous Transmission Summation Scenario (Hotspot) 10 mm													
Band			NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (EN-DC)	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No
NR Band n30	LTE Band 5(26)	Rear	0.272	0.586	0.332	0.096	0.192	0.858	1.190	0.954	1.050	1.146	No
		Front	0.126	0.362	0.240	0.021	0.142	0.488	0.728	0.509	0.630	0.651	No
		Left	0.073	0.208	0.194	0.318	0.079	0.281	0.475	0.599	0.360	0.678	No
		Right		0.369				0.369	0.369	0.369	0.369	0.369	No
		Top			0.520	0.116	0.351	0	0.520	0.116	0.351	0.467	No
		Bottom	0.199	0.312				0.511	0.511	0.511	0.511	0.511	No
	LTE Band 12	Rear	0.272	0.453	0.332	0.096	0.192	0.725	1.057	0.821	0.917	1.013	No
		Front	0.126	0.357	0.240	0.021	0.142	0.483	0.723	0.504	0.625	0.646	No
		Left	0.073	0.120	0.194	0.318	0.079	0.193	0.387	0.511	0.272	0.590	No
		Right		0.280				0.280	0.280	0.280	0.280	0.280	No
		Top			0.520	0.116	0.351	0	0.520	0.116	0.351	0.467	No
		Bottom	0.199	0.190				0.389	0.389	0.389	0.389	0.389	No
	LTE Band 14	Rear	0.272	0.728	0.332	0.096	0.192	1	1.332	1.096	1.192	1.288	No
		Front	0.126	0.425	0.240	0.021	0.142	0.551	0.791	0.572	0.693	0.714	No
		Left	0.073	0.207	0.194	0.318	0.079	0.28	0.474	0.598	0.359	0.677	No
		Right		0.498				0.498	0.498	0.498	0.498	0.498	No
		Top			0.520	0.116	0.351	0	0.520	0.116	0.351	0.467	No
		Bottom	0.199	0.307				0.506	0.506	0.506	0.506	0.506	No
NR Band n41 (PC3) Main 2	LTE Band 12	Rear	0.267	0.453	0.332	0.096	0.192	0.720	1.052	0.816	0.912	1.008	No
		Front	0.239	0.357	0.240	0.021	0.142	0.596	0.836	0.617	0.738	0.759	No
		Left	0.219	0.120	0.194	0.318	0.079	0.339	0.533	0.657	0.418	0.736	No
		Right		0.280				0.280	0.280	0.280	0.280	0.280	No
		Top			0.520	0.116	0.351	0	0.52	0.116	0.351	0.467	No
		Bottom	0.567	0.190				0.757	0.757	0.757	0.757	0.757	No
	LTE Band 25	Rear	0.267	0.501	0.332	0.096	0.192	0.768	1.100	0.864	0.960	1.056	No
		Front	0.239	0.300	0.240	0.021	0.142	0.539	0.779	0.56	0.681	0.702	No
		Left	0.219	0.026	0.194	0.318	0.079	0.245	0.439	0.563	0.324	0.642	No
		Right		0.078				0.078	0.078	0.078	0.078	0.078	No
		Top			0.520	0.116	0.351	0	0.52	0.116	0.351	0.467	No
		Bottom	0.567	0.734				1.301	1.301	1.301	1.301	1.301	No
	LTE Band 66	Rear	0.267	0.579	0.332	0.096	0.192	0.846	1.178	0.942	1.038	1.134	No
		Front	0.239	0.333	0.240	0.021	0.142	0.572	0.812	0.593	0.714	0.735	No
		Left	0.219	0.068	0.194	0.318	0.079	0.287	0.481	0.605	0.366	0.684	No
		Right		0.059				0.059	0.059	0.059	0.059	0.059	No
		Top			0.520	0.116	0.351	0	0.520	0.116	0.351	0.467	No
		Bottom	0.567	0.764				1.331	1.331	1.331	1.331	1.331	No

Simultaneous Transmission Summation Scenario (Hotspot) 10 mm													
Band			NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (EN-DC)	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No
NR Band n41 (PC3) Sub 2	LTE Band 12	Rear	0.139	0.453	0.332	0.096	0.192	0.592	0.924	0.688	0.784	0.880	No
		Front	0.130	0.357	0.240	0.021	0.142	0.487	0.727	0.508	0.629	0.650	No
		Left	0.047	0.120	0.194	0.318	0.079	0.167	0.361	0.485	0.246	0.564	No
		Right		0.280				0.280	0.280	0.280	0.280	0.280	No
		Top	0.289		0.520	0.116	0.351	0.289	0.809	0.405	0.640	0.756	No
		Bottom		0.190				0.190	0.190	0.190	0.190	0.190	No
	LTE Band 25	Rear	0.139	0.501	0.332	0.096	0.192	0.640	0.972	0.736	0.832	0.928	No
		Front	0.130	0.300	0.240	0.021	0.142	0.430	0.670	0.451	0.572	0.593	No
		Left	0.047	0.026	0.194	0.318	0.079	0.073	0.267	0.391	0.152	0.470	No
		Right		0.078				0.078	0.078	0.078	0.078	0.078	No
		Top	0.289		0.520	0.116	0.351	0.289	0.809	0.405	0.640	0.756	No
		Bottom		0.734				0.734	0.734	0.734	0.734	0.734	No
	LTE Band 66	Rear	0.139	0.579	0.332	0.096	0.192	0.718	1.050	0.814	0.910	1.006	No
		Front	0.130	0.333	0.240	0.021	0.142	0.463	0.703	0.484	0.605	0.626	No
		Left	0.047	0.068	0.194	0.318	0.079	0.115	0.309	0.433	0.194	0.512	No
		Right		0.059				0.059	0.059	0.059	0.059	0.059	No
		Top	0.289		0.520	0.116	0.351	0.289	0.809	0.405	0.640	0.756	No
		Bottom		0.764				0.764	0.764	0.764	0.764	0.764	No

Simultaneous Transmission Summation Scenario (Hotspot) 10 mm													
Band			NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	$\sum$ 1-g SAR (EN-DC)	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLS R
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No
NR Band n66	LTE Band 5(26)	Rear	0.520	0.586	0.332	0.096	0.192	1.106	1.438	1.202	1.298	1.394	No
		Front	0.252	0.362	0.240	0.021	0.142	0.614	0.854	0.635	0.756	0.777	No
		Left	0.046	0.208	0.194	0.318	0.079	0.254	0.448	0.572	0.333	0.651	No
		Right	0.047	0.369				0.416	0.416	0.416	0.416	0.416	No
		Top			0.520	0.116	0.351	0.000	0.520	0.116	0.351	0.467	No
		Bottom	0.686	0.312				0.998	0.998	0.998	0.998	0.998	No
	LTE Band 12	Rear	0.520	0.453	0.332	0.096	0.192	0.973	1.305	1.069	1.165	1.261	No
		Front	0.252	0.357	0.240	0.021	0.142	0.609	0.849	0.630	0.751	0.772	No
		Left	0.046	0.120	0.194	0.318	0.079	0.166	0.360	0.484	0.245	0.563	No
		Right	0.047	0.280				0.327	0.327	0.327	0.327	0.327	No
		Top			0.520	0.116	0.351	0.000	0.520	0.116	0.351	0.467	No
		Bottom	0.686	0.190				0.876	0.876	0.876	0.876	0.876	No
	LTE Band 13	Rear	0.520	0.718	0.332	0.096	0.192	1.238	1.570	1.334	1.430	1.526	No
		Front	0.252	0.432	0.240	0.021	0.142	0.684	0.924	0.705	0.826	0.847	No
		Left	0.046	0.240	0.194	0.318	0.079	0.286	0.480	0.604	0.365	0.683	No
		Right	0.047	0.493				0.540	0.540	0.540	0.540	0.540	No
		Top			0.520	0.116	0.351	0.000	0.520	0.116	0.351	0.467	No
		Bottom	0.686	0.293				0.979	0.979	0.979	0.979	0.979	No
	LTE Band 14	Rear	0.520	0.728	0.332	0.096	0.192	1.248	1.580	1.344	1.440	1.536	No
		Front	0.252	0.425	0.240	0.021	0.142	0.677	0.917	0.698	0.819	0.840	No
		Left	0.046	0.207	0.194	0.318	0.079	0.253	0.447	0.571	0.332	0.650	No
		Right	0.047	0.498				0.545	0.545	0.545	0.545	0.545	No
		Top			0.520	0.116	0.351	0.000	0.520	0.116	0.351	0.467	No
		Bottom	0.686	0.307				0.993	0.993	0.993	0.993	0.993	No
	LTE Band 48	Rear	0.520	0.170	0.332	0.096	0.192	0.690	1.022	0.786	0.882	0.978	No
		Front	0.252	0.065	0.240	0.021	0.142	0.317	0.557	0.338	0.459	0.480	No
		Left	0.046	0.414	0.194	0.318	0.079	0.460	0.654	0.778	0.539	0.857	No
		Right	0.047					0.047	0.047	0.047	0.047	0.047	No
		Top		0.259	0.520	0.116	0.351	0.259	0.779	0.375	0.610	0.726	No
		Bottom	0.686					0.686	0.686	0.686	0.686	0.686	No
	LTE Band 71	Rear	0.520	0.411	0.332	0.096	0.192	0.931	1.263	1.027	1.123	1.219	No
		Front	0.252	0.270	0.240	0.021	0.142	0.522	0.762	0.543	0.664	0.685	No
		Left	0.046	0.273	0.194	0.318	0.079	0.319	0.513	0.637	0.398	0.716	No
		Right	0.047	0.298				0.345	0.345	0.345	0.345	0.345	No
		Top			0.520	0.116	0.351	0.000	0.520	0.116	0.351	0.467	No
		Bottom	0.686	0.127				0.813	0.813	0.813	0.813	0.813	No
NR Band n71	LTE Band 7	Rear	0.283	0.264	0.332	0.096	0.192	0.547	0.879	0.643	0.739	0.835	No
		Front	0.192	0.184	0.240	0.021	0.142	0.376	0.616	0.397	0.518	0.539	No
		Left	0.090	0.130	0.194	0.318	0.079	0.220	0.414	0.538	0.299	0.617	No
		Right	0.180					0.180	0.180	0.180	0.180	0.180	No
		Top			0.520	0.116	0.351	0.000	0.520	0.116	0.351	0.467	No
		Bottom	0.156	0.421				0.577	0.577	0.577	0.577	0.577	No
	LTE Band 66	Rear	0.283	0.579	0.332	0.096	0.192	0.862	1.194	0.958	1.054	1.150	No
		Front	0.192	0.333	0.240	0.021	0.142	0.525	0.765	0.546	0.667	0.688	No
		Left	0.090	0.068	0.194	0.318	0.079	0.158	0.352	0.476	0.237	0.555	No
		Right	0.180	0.059				0.239	0.239	0.239	0.239	0.239	No
		Top			0.520	0.116	0.351	0.000	0.520	0.116	0.351	0.467	No
		Bottom	0.156	0.764				0.920	0.920	0.920	0.920	0.920	No

Simultaneous Transmission Summation Scenario (Hotspot) 10 mm														
Band			NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	Σ 1-g SAR (EN-DC)	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLS R	
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	No	
NR n77(PC3)	LTE Band 5(26)	Rear	0.185	0.586	0.332	0.096	0.192	0.771	1.103	0.867	0.963	1.059	No	
		Front	0.102	0.362	0.240	0.021	0.142	0.464	0.704	0.485	0.606	0.627	No	
		Left	0.348	0.208	0.194	0.318	0.079	0.556	0.750	0.874	0.635	0.953	No	
		Right		0.369				0.369	0.369	0.369	0.369	0.369	No	
		Top	0.175		0.520	0.116	0.351	0.175	0.695	0.291	0.526	0.642	No	
		Bottom		0.312				0.312	0.312	0.312	0.312	0.312	No	
	LTE Band 7	Rear	0.185	0.264	0.332	0.096	0.192	0.449	0.781	0.545	0.641	0.737	No	
		Front	0.102	0.184	0.240	0.021	0.142	0.286	0.526	0.307	0.428	0.449	No	
		Left	0.348	0.130	0.194	0.318	0.079	0.478	0.672	0.796	0.557	0.875	No	
		Right						0.000	0.000	0.000	0.000	0.000	No	
		Top	0.175		0.520	0.116	0.351	0.175	0.695	0.291	0.526	0.642	No	
		Bottom		0.421				0.421	0.421	0.421	0.421	0.421	No	
	LTE Band 12	Rear	0.185	0.453	0.332	0.096	0.192	0.638	0.970	0.734	0.830	0.926	No	
		Front	0.102	0.357	0.240	0.021	0.142	0.459	0.699	0.480	0.601	0.622	No	
		Left	0.348	0.120	0.194	0.318	0.079	0.468	0.662	0.786	0.547	0.865	No	
		Right		0.280				0.280	0.280	0.280	0.280	0.280	No	
		Top	0.175		0.520	0.116	0.351	0.175	0.695	0.291	0.526	0.642	No	
		Bottom		0.190				0.190	0.190	0.190	0.190	0.190	No	
	LTE Band 13	Rear	0.185	0.718	0.332	0.096	0.192	0.903	1.235	0.999	1.095	1.191	No	
		Front	0.102	0.432	0.240	0.021	0.142	0.534	0.774	0.555	0.676	0.697	No	
		Left	0.348	0.240	0.194	0.318	0.079	0.588	0.782	0.906	0.667	0.985	No	
		Right		0.493				0.493	0.493	0.493	0.493	0.493	No	
		Top	0.175		0.520	0.116	0.351	0.175	0.695	0.291	0.526	0.642	No	
		Bottom		0.293				0.293	0.293	0.293	0.293	0.293	No	
	LTE Band 14	Rear	0.185	0.728	0.332	0.096	0.192	0.913	1.245	1.009	1.105	1.201	No	
		Front	0.102	0.425	0.240	0.021	0.142	0.527	0.767	0.548	0.669	0.690	No	
		Left	0.348	0.207	0.194	0.318	0.079	0.555	0.749	0.873	0.634	0.952	No	
		Right		0.498				0.498	0.498	0.498	0.498	0.498	No	
		Top	0.175		0.520	0.116	0.351	0.175	0.695	0.291	0.526	0.642	No	
		Bottom		0.307				0.307	0.307	0.307	0.307	0.307	No	
	LTE Band 30	Rear	0.185	0.303	0.332	0.096	0.192	0.488	0.820	0.584	0.680	0.776	No	
		Front	0.102	0.199	0.240	0.021	0.142	0.301	0.541	0.322	0.443	0.464	No	
		Left	0.348	0.174	0.194	0.318	0.079	0.522	0.716	0.840	0.601	0.919	No	
		Right						0.000	0.000	0.000	0.000	0.000	No	
		Top	0.175		0.520	0.116	0.351	0.175	0.695	0.291	0.526	0.642	No	
		Bottom		0.511				0.511	0.511	0.511	0.511	0.511	No	
	LTE Band 66	Rear	0.185	0.579	0.332	0.096	0.192	0.764	1.096	0.860	0.956	1.052	No	
		Front	0.102	0.333	0.240	0.021	0.142	0.435	0.675	0.456	0.577	0.598	No	
		Left	0.348	0.068	0.194	0.318	0.079	0.416	0.610	0.734	0.495	0.813	No	
		Right		0.059				0.059	0.059	0.059	0.059	0.059	No	
		Top	0.175		0.520	0.116	0.351	0.175	0.695	0.291	0.526	0.642	No	
		Bottom		0.764				0.764	0.764	0.764	0.764	0.764	No	

Simultaneous Transmission Summation Scenario (Hotspot) 10 mm													
Band		NR SAR	LTE SAR	2.4 GHz WLAN SAR	5 GHz WLAN SAR	Bluetooth SAR	Σ 1-g SAR (EN-DC)	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLS R
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	1+2+4+5	1+2+4+5	No
NR n77(PC3) DoD	LTE Band 5(26)	Rear	0.144	0.586	0.332	0.096	0.192	0.730	1.062	0.826	0.922	1.018	No
		Front	0.183	0.362	0.240	0.021	0.142	0.545	0.785	0.566	0.687	0.708	No
		Left	0.185	0.208	0.194	0.318	0.079	0.393	0.587	0.711	0.472	0.790	No
		Right		0.369				0.369	0.369	0.369	0.369	0.369	No
		Top	0.195		0.520	0.116	0.351	0.195	0.715	0.311	0.546	0.662	No
		Bottom		0.312				0.312	0.312	0.312	0.312	0.312	No
	LTE Band 7	Rear	0.144	0.264	0.332	0.096	0.192	0.408	0.740	0.504	0.600	0.696	No
		Front	0.183	0.184	0.240	0.021	0.142	0.367	0.607	0.388	0.509	0.530	No
		Left	0.185	0.130	0.194	0.318	0.079	0.315	0.509	0.633	0.394	0.712	No
		Right						0.000	0.000	0.000	0.000	0.000	No
		Top	0.195		0.520	0.116	0.351	0.195	0.715	0.311	0.546	0.662	No
		Bottom		0.421				0.421	0.421	0.421	0.421	0.421	No
	LTE Band 12	Rear	0.144	0.453	0.332	0.096	0.192	0.597	0.929	0.693	0.789	0.885	No
		Front	0.183	0.357	0.240	0.021	0.142	0.540	0.780	0.561	0.682	0.703	No
		Left	0.185	0.120	0.194	0.318	0.079	0.305	0.499	0.623	0.384	0.702	No
		Right		0.280				0.280	0.280	0.280	0.280	0.280	No
		Top	0.195		0.520	0.116	0.351	0.195	0.715	0.311	0.546	0.662	No
		Bottom		0.190				0.190	0.190	0.190	0.190	0.190	No
	LTE Band 13	Rear	0.144	0.718	0.332	0.096	0.192	0.862	1.194	0.958	1.054	1.150	No
		Front	0.183	0.432	0.240	0.021	0.142	0.615	0.855	0.636	0.757	0.778	No
		Left	0.185	0.240	0.194	0.318	0.079	0.425	0.619	0.743	0.504	0.822	No
		Right		0.493				0.493	0.493	0.493	0.493	0.493	No
		Top	0.195		0.520	0.116	0.351	0.195	0.715	0.311	0.546	0.662	No
		Bottom		0.293				0.293	0.293	0.293	0.293	0.293	No
	LTE Band 14	Rear	0.144	0.728	0.332	0.096	0.192	0.872	1.204	0.968	1.064	1.160	No
		Front	0.183	0.425	0.240	0.021	0.142	0.608	0.848	0.629	0.750	0.771	No
		Left	0.185	0.207	0.194	0.318	0.079	0.392	0.586	0.710	0.471	0.789	No
		Right		0.498				0.498	0.498	0.498	0.498	0.498	No
		Top	0.195		0.520	0.116	0.351	0.195	0.715	0.311	0.546	0.662	No
		Bottom		0.307				0.307	0.307	0.307	0.307	0.307	No
	LTE Band 30	Rear	0.144	0.303	0.332	0.096	0.192	0.447	0.779	0.543	0.639	0.735	No
		Front	0.183	0.199	0.240	0.021	0.142	0.382	0.622	0.403	0.524	0.545	No
		Left	0.185	0.174	0.194	0.318	0.079	0.359	0.553	0.677	0.438	0.756	No
		Right						0.000	0.000	0.000	0.000	0.000	No
		Top	0.195		0.520	0.116	0.351	0.195	0.715	0.311	0.546	0.662	No
		Bottom		0.511				0.511	0.511	0.511	0.511	0.511	No
	LTE Band 66	Rear	0.144	0.579	0.332	0.096	0.192	0.723	1.055	0.819	0.915	1.011	No
		Front	0.183	0.333	0.240	0.021	0.142	0.516	0.756	0.537	0.658	0.679	No
		Left	0.185	0.068	0.194	0.318	0.079	0.253	0.447	0.571	0.332	0.650	No
		Right		0.059				0.059	0.059	0.059	0.059	0.059	No
		Top	0.195		0.520	0.116	0.351	0.195	0.715	0.311	0.546	0.662	No
		Bottom		0.764				0.764	0.764	0.764	0.764	0.764	No

14.4 Phablet SAR Simultaneous Transmission Analysis

Simultaneous Transmission Scenario with 5G WLAN Phablet (10g)					
Band		WWAN SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ 10-g SAR (W/kg)	SPLSR
		1	2	1+2	(Yes/No)
UMTS Band 2	Rear	1.881	0.937	2.818	No
	Front	1.020	0.346	1.366	No
	Left	0.155	0.770	0.925	No
	Right	0.224		0.224	No
	Top		0.194	0.194	No
	Bottom	2.705		2.705	No
LTE Band 25	Rear	1.149	0.937	2.086	No
	Front	0.987	0.346	1.333	No
	Left	0.142	0.770	0.912	No
	Right	0.214		0.214	No
	Top		0.194	0.194	No
	Bottom	1.897		1.897	No
LTE Band 66	Rear	1.082	0.937	2.019	No
	Front	0.876	0.346	1.222	No
	Left	0.386	0.770	1.156	No
	Right	0.224		0.224	No
	Top		0.194	0.194	No
	Bottom	1.801		1.801	No
NR Band n41	Rear	0.256	0.937	1.193	No
	Front	0.256	0.346	0.602	No
	Left	0.964	0.770	1.734	No
	Right				No
	Top		0.194	0.194	No
	Bottom	0.248		0.248	No
NR Band n66	Rear	1.045	0.937	1.982	No
	Front	0.836	0.346	1.182	No
	Left	0.365	0.770	1.135	No
	Right	0.204		0.204	No
	Top		0.194	0.194	No
	Bottom	1.404		1.404	No
NR Band n77	Rear	0.487	0.937	1.424	No
	Front		0.346	0.346	No
	Left	1.236	0.770	2.006	No
	Right				No
	Top	0.426	0.194	0.620	No
	Bottom				No
NR Band n77 (DoD)	Rear		0.937	0.937	No
	Front		0.346	0.346	No
	Left	1.222	0.770	1.992	No
	Right				No
	Top	0.477	0.194	0.671	No
	Bottom				No

14.5 Simultaneous Transmission Conclusion

The above numerical summed SAR Results are sufficient to determine that simultaneous transmission cases will not exceed the SAR Limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE1528-2013.

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.

Hotspot SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 880	9400	UMTS Band 2	Bottom	0.935	0.927	1.01

Phablet SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 852.4	9262	UMTS Band 2	Bottom	2.26	2.06	1.10

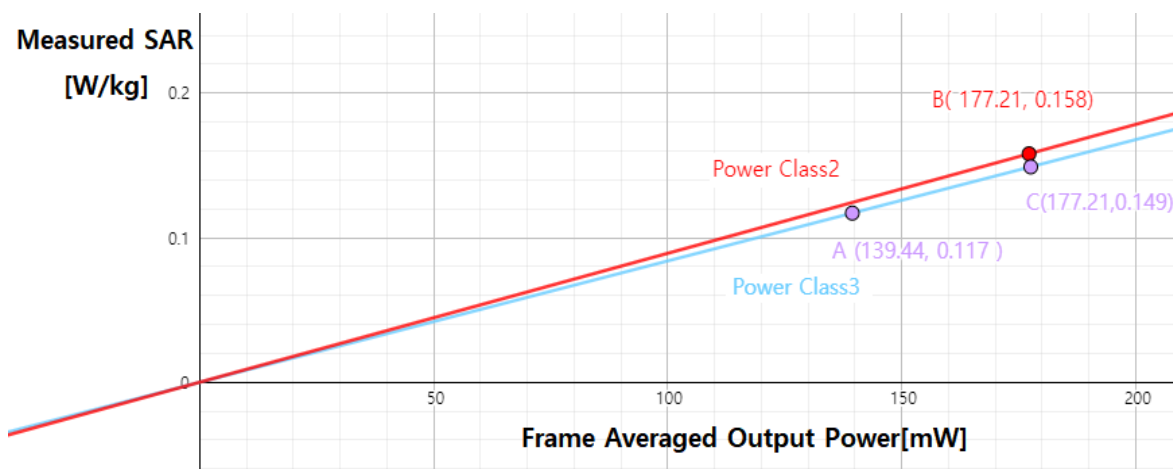
16. LTE Band Power Class 2 and Power class 3 Linearity

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

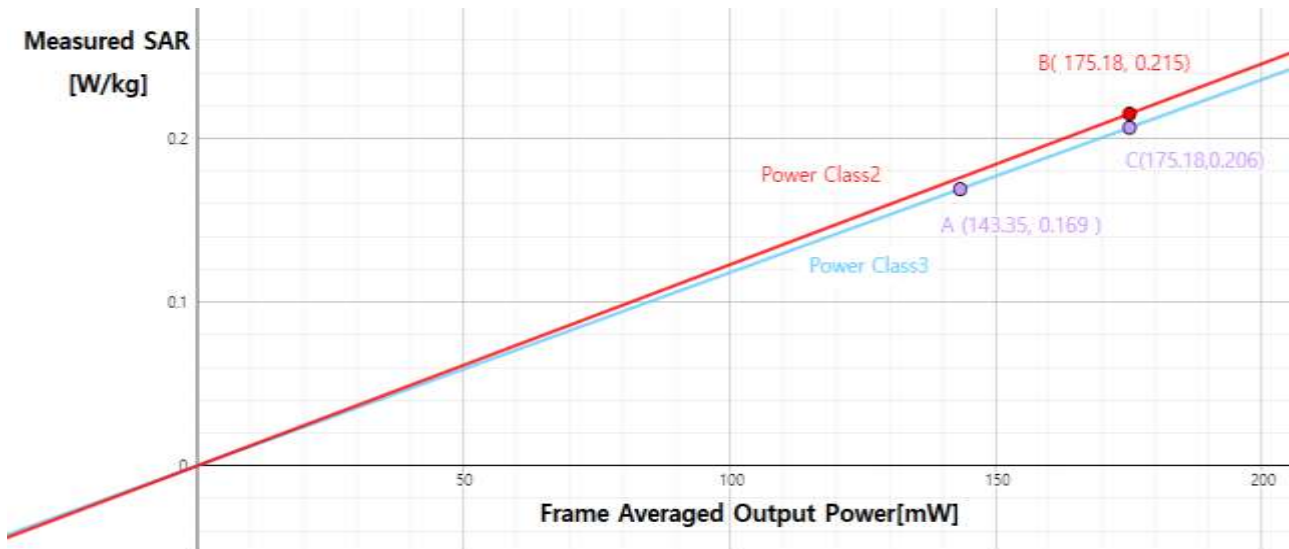
LTE Band 41 Head Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	24	26.3
Measured Output Power[dBm]	23.43	26.12
Measured SAR[W/kg]	0.117	0.158
Duty Cycle	220.29	409.26
Frame Averaged Output Power[mW]	63.30%	43.30%
	139.44	177.21
% deviation from expected linearity		6.26



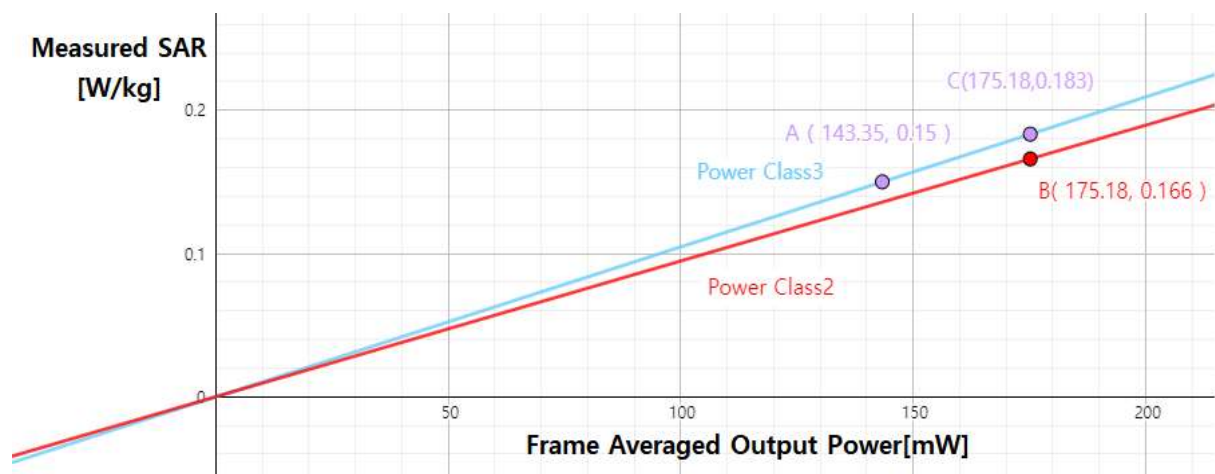
LTE Band 41 Body -Worn Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	24	26.3
Measured Output Power[dBm]	23.43	26.12
Measured SAR[W/kg]	0.166	0.223
Duty Cycle	220.29	409.26
Frame Averaged Output Power[mW]	63.30%	43.30%
	139.44	177.21
% deviation from expected linearity		5.71



LTE Band 41 Head ULCA Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	24	26.3
Measured Output Power[dBm]	23.55	26.07
Measured SAR[W/kg]	0.169	0.215
Duty Cycle	226.46	404.58
Frame Averaged Output Power[mW]	63.30%	43.30%
	143.35	175.18
% deviation from expected linearity		4.10



LTE Band 41 BodyWorn ULCA Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	24	26.3
Measured Output Power[dBm]	23.55	26.07
Measured SAR[W/kg]	0.15	0.166
Duty Cycle	226.46	404.58
Frame Averaged Output Power[mW]	63.30%	43.30%
	143.35	175.18
% deviation from expected linearity		-9.44



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
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	F13/ 5R4XF1/ C/ 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	TX90 XLspeag	F11/ 5K3RA1/ 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	Teach Pendant (Joystick)	S-1203 0309	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
TESTO	175-H1/Thermometer	40331936309	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40331936309	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	40332651310	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40332651310	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	40331949309	01/26/2021	Annual	01/26/2022
TESTO	175-H1/Thermometer	40331949309	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	83348029	05/06/2021	Annual	05/06/2022
SPEAG	DAE4	648	06/02/2021	Annual	06/02/2022
SPEAG	DAE4	869	03/29/2021	Annual	03/29/2022
SPEAG	DAE4	1629	07/26/2021	Annual	07/26/2022
SPEAG	DAE4	1687	07/26/2021	Annual	07/26/2022
SPEAG	E-Field Probe ES3DV3	3076	07/28/2021	Annual	07/28/2022
SPEAG	E-Field Probe EX3DV4	3903	03/24/2021	Annual	03/24/2022
SPEAG	E-Field Probe EX3DV4	3972	05/21/2021	Annual	05/21/2022
SPEAG	E-Field Probe EX3DV4	7655	05/21/2021	Annual	05/21/2022
SPEAG	E-Field Probe EX3DV4	7679	09/10/2021	Annual	09/10/2022
SPEAG	E-Field Probe EX3DV4	7680	09/10/2021	Annual	09/10/2022
SPEAG	Dipole D750V3	1014	06/01/2021	Annual	06/01/2022
SPEAG	Dipole D835V2	4d165	08/03/2021	Annual	08/03/2022
SPEAG	Dipole D1800V2	2d015	07/30/2021	Annual	07/30/2022
SPEAG	Dipole D1900V2	5d061	11/24/2021	Annual	11/24/2022
SPEAG	Dipole D2300V2	1010	08/17/2021	Annual	08/17/2022
SPEAG	Dipole D2450V2	965	06/15/2021	Annual	06/15/2022
SPEAG	Dipole D2600V2	1106	07/30/2021	Annual	07/30/2022
SPEAG	Dipole D5GHzV2	1107	07/22/2021	Annual	07/22/2022
SPEAG	Dipole D3500V2	1040	02/17/2021	Annual	02/17/2022
SPEAG	Dipole D3700V2	1105	11/22/2021	Annual	11/22/2022
SPEAG	Dipole D3900V2	1019	06/09/2021	Annual	06/09/2022
Agilent	Power Meter E4419B	MY41291386	10/06/2021	Annual	10/06/2022
Agilent	Power Meter N1911A	MY45101406	07/08/2021	Annual	07/08/2022
Agilent	Power Sensor 8481A	SG1091286	10/06/2021	Annual	10/06/2022
Agilent	Power Sensor 8481A	MY41090675	10/06/2021	Annual	10/06/2022
Agilent	Power Sensor N1921A	MY55220026	08/05/2021	Annual	08/05/2022
SPEAG	DAKS 3.5	1038	03/17/2021	Annual	03/17/2022
SPEAG	DAKS VNA R140	0141013	04/07/2021	Annual	04/07/2022
R&S	Wireless Communication Test Set CMW500	115733	04/15/2021	Annual	04/15/2022
Agilent	11636B/Power Divider	58698	02/26/2021	Annual	02/26/2022
OSI	Power Divider	#1	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#2	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#3	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#4	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#5	06/24/2021	Annual	06/24/2022
Agilent	SIGNAL GENERATOR E4438C	MY49071736	01/03/2022	Annual	01/03/2023

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	SIGNAL GENERATOR N5182A	MY47070230	05/10/2021	Annual	05/10/2022
EMPOWER	RF Power Amplifier	1084	06/25/2021	Annual	06/25/2022
EMPOWER	RF Power Amplifier	1011	10/06/2021	Annual	10/06/2022
MICRO LAB	LP Filter / LA-15N	10453	10/06/2021	Annual	10/06/2022
MICRO LAB	LP Filter / LA-30N	-	10/06/2021	Annual	10/06/2022
MICRO LAB	LP Filter / LA-60N	32011	10/06/2021	Annual	10/06/2022
HP	Attenuator (3dB) 333340A	02427	09/06/2021	Annual	09/06/2022
HP	Attenuator (20dB) 8493C	09271	09/06/2021	Annual	09/17/2022
Aeroflex/Weinschel	Fixed Coaxial Attenuator (30 dB)	CE6106	11/11/2021	Annual	11/11/2022
Agilent	Directional Bridge 86205A	3140A03878	05/28/2021	Annual	05/28/2022
Agilent	MXA Signal Analyzer N9020A	MY50510407	10/20/2021	Annual	10/20/2022
Anritsu	Radio Communication Tester MT8820C	6200695605	04/15/2021	Annual	04/15/2022
Anritsu	Radio Communication Tester MT8821C	6201502997	07/08/2021	Annual	07/08/2022
Anritsu	Radio Communication Tester MT8821C	6262044720	12/20/2021	Annual	12/20/2022
Anritsu	Radio Communication Tester MT8821C	6262287674	05/25/2021	Annual	05/25/2022
Anritsu	Radio Communication Tester MT8821C	6262287678	05/25/2021	Annual	05/25/2022
Anritsu	Radio Communication Test Station MT8000A	6262036812	12/18/2020	Annual	12/18/2021
Anritsu	Radio Communication Test Station MT8000A	6262036812	12/20/2021	Annual	12/20/2022
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/23/2021	Annual	07/23/2022
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	02/26/2021	Annual	02/26/2022

* 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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Appendix A. DUT Ant. Information & SETUP PHOTO

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

Report No.
HCT-SR-2201-FC012-P