

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
10/20/2020	21.9	750H	705	0.892	41.576	0.889	42.174	0.34	-1.42
			710	0.896	41.500	0.890	42.148	0.67	-1.54
			750	0.898	40.985	0.893	41.940	0.56	-2.28
09/14/2020	22.7	750H	705	0.854	42.998	0.889	42.174	-3.94	1.95
			710	0.857	42.871	0.890	42.148	-3.71	1.72
			750	0.857	42.935	0.893	41.940	-4.03	2.37
10/21/2020	21.1	750H	705	0.893	41.597	0.889	42.174	0.45	-1.37
			710	0.898	41.523	0.890	42.148	0.90	-1.48
			750	0.898	41.023	0.893	41.940	0.56	-2.19
09/14/2020	22.4	750H	750	0.877	42.314	0.893	41.940	-1.79	0.89
			785	0.907	41.844	0.896	41.758	1.23	0.21
09/11/2020	21.9	835H	820	0.911	42.951	0.899	41.577	1.33	3.30
			835	0.925	42.777	0.900	41.500	2.78	3.08
			850	0.937	42.610	0.916	41.500	2.29	2.67
09/14/2020	22.1	835H	820	0.906	42.861	0.899	41.577	0.78	3.09
			835	0.920	42.696	0.900	41.500	2.22	2.88
			850	0.932	42.542	0.916	41.500	1.75	2.51
10/19/2020	21.6	835H	820	0.867	41.912	0.899	41.577	-3.56	0.81
			835	0.928	42.337	0.900	41.500	3.11	2.02
			850	0.897	41.561	0.916	41.500	-2.07	0.15
10/20/2020	21.2	835H	820	0.866	41.944	0.899	41.577	-3.67	0.88
			835	0.883	41.737	0.900	41.500	-1.89	0.57
			850	0.901	41.635	0.916	41.500	-1.64	0.33
09/14/2020	22.7	835H	820	0.911	42.548	0.899	41.577	1.33	2.34
			835	0.926	42.323	0.900	41.500	2.89	1.98
			850	0.935	42.107	0.916	41.500	2.07	1.46
09/16/2020	21.7	1800H	1710	1.314	40.850	1.348	40.144	-2.52	1.76
			1750	1.348	40.814	1.371	40.080	-1.68	1.83
			1800	1.423	40.565	1.400	40.000	1.64	1.41
09/16/2020	21.7	1800H	1710	1.303	40.520	1.348	40.144	-3.34	0.94
			1750	1.339	40.392	1.371	40.080	-2.33	0.78
			1800	1.387	40.247	1.400	40.000	-0.93	0.62
09/29/2020	22.7	1800H	1710	1.296	40.366	1.348	40.144	-3.86	0.55
			1750	1.335	40.256	1.371	40.080	-2.63	0.44
			1800	1.382	40.110	1.400	40.000	-1.29	0.28
10/27/2020	21.3	1800H	1710	1.299	40.526	1.348	40.144	-3.64	0.95
			1750	1.336	40.410	1.371	40.080	-2.55	0.82
			1800	1.384	40.253	1.400	40.000	-1.14	0.63
10/13/2020	21.1	1800H	1710	1.302	40.535	1.348	40.144	-3.41	0.97
			1750	1.337	40.426	1.371	40.080	-2.48	0.86
			1800	1.384	40.280	1.400	40.000	-1.14	0.70
10/14/2020	22.1	1800H	1710	1.302	40.544	1.348	40.144	-3.41	1.00
			1750	1.342	40.446	1.371	40.080	-2.12	0.91
			1800	1.390	40.291	1.400	40.000	-0.71	0.73

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
09/16/2020	22.1	1900H	1850	1.398	39.772	1.400	40.000	-0.14	-0.57
			1900	1.445	39.502	1.400	40.000	3.21	-1.24
			1910	1.445	39.439	1.400	40.000	3.21	-1.40
09/15/2020	21.9	1900H	1850	1.398	40.079	1.400	40.000	-0.14	0.20
			1900	1.447	39.867	1.400	40.000	3.36	-0.33
			1910	1.454	39.828	1.400	40.000	3.86	-0.43
09/15/2020	22.0	1900H	1850	1.379	40.082	1.400	40.000	-1.50	0.21
			1900	1.428	39.878	1.400	40.000	2.00	-0.31
			1910	1.435	39.837	1.400	40.000	2.50	-0.41
09/15/2020	22.0	1900H	1850	1.343	40.319	1.400	40.000	-4.07	0.80
			1900	1.397	40.200	1.400	40.000	-0.21	0.50
			1910	1.406	40.164	1.400	40.000	0.43	0.41
09/28/2020	22.7	1900H	1850	1.378	38.805	1.400	40.000	-1.57	-2.99
			1900	1.447	39.867	1.400	40.000	3.36	-0.33
			1910	1.444	38.658	1.400	40.000	3.14	-3.35
09/28/2020	22.0	1900H	1850	1.348	40.083	1.400	40.000	-3.71	0.21
			1900	1.395	39.883	1.400	40.000	-0.36	-0.29
			1910	1.402	39.843	1.400	40.000	0.14	-0.39
10/13/2020	21.2	2300H	2300	1.646	40.498	1.667	39.470	-1.26	2.60
			2310	1.646	40.477	1.676	39.452	-1.79	2.60
			2350	1.692	40.401	1.711	39.380	-1.11	2.59
			2360	1.709	40.382	1.720	39.362	-0.64	2.59
10/02/2020	21.2	2300H	2300	1.639	40.533	1.667	39.470	-1.68	2.69
			2310	1.646	40.570	1.676	39.452	-1.79	2.83
			2350	1.692	40.463	1.711	39.380	-1.11	2.75
			2360	1.709	40.414	1.720	39.362	-0.64	2.67
10/12/2020	21.6	2300H	2300	1.639	40.526	1.667	39.470	-1.68	2.68
			2310	1.642	40.525	1.676	39.452	-2.03	2.72
			2350	1.685	40.428	1.711	39.380	-1.52	2.66
			2360	1.707	40.366	1.720	39.362	-0.76	2.55
10/15/2020	20.0	2300H	2300	1.634	40.517	1.667	39.470	-1.98	2.65
			2310	1.638	40.475	1.676	39.452	-2.27	2.59
			2350	1.685	40.424	1.711	39.380	-1.52	2.65
			2360	1.699	40.393	1.720	39.362	-1.22	2.62
10/30/2020	21.6	2300H	2300	1.638	40.564	1.667	39.470	-1.74	2.77
			2310	1.642	40.552	1.676	39.452	-2.03	2.79
			2350	1.689	40.461	1.711	39.380	-1.29	2.75
			2360	1.704	40.413	1.720	39.362	-0.93	2.67
10/30/2020	21.6	2300H	2300	1.637	40.495	1.667	39.470	-1.80	2.60
			2310	1.645	40.498	1.676	39.452	-1.85	2.65
			2350	1.690	40.402	1.711	39.380	-1.23	2.60
			2360	1.702	40.347	1.720	39.362	-1.05	2.50

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
09/21/2020	22.7	2450H	2400	1.765	39.665	1.756	39.290	0.51	0.95
			2450	1.823	39.539	1.800	39.200	1.28	0.86
			2500	1.879	39.390	1.855	39.140	1.29	0.64
09/24/2020	22.3	2450H	2400	1.815	40.556	1.756	39.290	3.36	3.22
			2450	1.830	40.531	1.800	39.200	1.67	3.40
			2500	1.886	40.365	1.855	39.140	1.67	3.13
09/25/2020	21.9	2450H	2400	1.726	39.656	1.756	39.290	-1.71	0.93
			2450	1.794	39.423	1.800	39.200	-0.33	0.57
			2500	1.845	39.212	1.855	39.140	-0.54	0.18
11/06/2020	21.0	2450H	2400	1.709	40.203	1.756	39.290	-2.68	2.32
			2450	1.771	40.033	1.800	39.200	-1.61	2.13
			2500	1.820	39.829	1.855	39.140	-1.89	1.76
10/05/2020	20.7	2600H	2500	1.863	40.092	1.855	39.140	0.43	2.43
			2550	1.915	39.910	1.964	39.010	-2.49	2.31
			2600	1.972	39.638	2.062	38.894	-4.36	1.91
10/27/2020	21.0	2600H	2500	1.820	40.090	1.855	39.140	-1.89	2.43
			2600	1.935	39.755	1.964	39.010	-1.48	1.91
			2690	2.041	39.547	2.062	38.894	-1.02	1.68
10/21/2020	20.3	2600H	2500	1.829	39.052	1.855	39.140	-1.40	-0.22
			2600	1.944	38.766	1.964	39.010	-1.02	-0.63
			2690	2.046	38.513	2.062	38.894	-0.78	-0.98
09/28/2020	22.5	2600H	2500	1.900	40.368	1.855	39.140	2.43	3.14
			2600	2.019	40.070	1.964	39.010	2.80	2.72
			2690	2.114	39.716	2.062	38.894	2.52	2.11
10/20/2020	21.3	2600H	2500	1.907	39.451	1.855	39.140	2.80	0.79
			2600	2.015	39.075	1.964	39.010	2.60	0.17
			2690	2.106	38.748	2.062	38.894	2.13	-0.38
10/22/2020	20.9	2600H	2500	1.847	41.002	1.855	39.140	-0.43	4.76
			2600	1.992	40.152	1.964	39.010	1.43	2.93
			2690	2.034	40.608	2.062	38.894	-1.36	4.41
10/20/2020	21.3	2600H	2500	1.866	40.527	1.855	39.140	0.59	3.54
			2600	1.992	40.152	1.964	39.010	1.43	2.93
			2690	2.069	39.697	2.062	38.894	0.34	2.06

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
10/02/2020	21.2	3500H-3700H	3500	2.995	38.454	2.913	37.930	2.81	1.38
			3550	2.969	37.806	2.964	37.870	0.17	-0.17
			3650	3.097	38.060	3.066	37.760	1.01	0.79
			3700	3.158	38.034	3.118	37.770	1.28	0.70
10/21/2020	22.6	3700H~3970	3700	3.155	37.967	3.118	37.700	1.19	0.71
			3750	3.194	37.944	3.169	37.640	0.79	0.81
			3800	3.238	37.980	3.220	37.590	0.56	1.04
			3900	3.323	37.930	3.233	37.470	2.78	1.23
09/26/2020	22.7	5180H-5825H	3970	3.345	37.768	3.394	37.390	-1.44	1.01
			5180	4.723	36.988	4.635	36.010	1.90	2.72
			5250	4.764	35.916	4.706	35.930	1.23	-0.04
			5280	4.806	36.803	4.737	35.894	1.46	2.53
			5320	4.812	36.839	4.778	35.846	0.71	2.77
			5500	5.148	36.999	4.963	35.640	3.73	3.81
			5600	5.04	35.822	5.065	35.530	-0.49	0.82
			5750	5.169	35.626	5.219	35.360	-0.96	0.75
09/29/2020	21.3	5180H-5825H	5800	5.150	36.971	5.270	35.300	-2.28	4.73
			5825	5.209	36.568	5.296	35.270	-1.64	3.68
			5180	4.417	37.025	4.635	36.010	-4.70	2.82
			5250	4.562	36.878	4.706	35.930	-3.06	2.64
			5280	4.661	36.785	4.737	35.894	-1.60	2.48
			5320	4.643	37.048	4.778	35.846	-2.83	3.35
			5500	4.850	36.831	4.963	35.640	-2.28	3.34
			5600	4.869	36.761	5.065	35.530	-3.87	3.46
10/01/2020	21.9	5180H-5825H	5750	5.168	36.867	5.219	35.360	-0.98	4.26
			5800	5.190	36.986	5.270	35.300	-1.52	4.78
			5825	5.232	36.554	5.296	35.270	-1.21	3.64
			5180	4.527	36.158	4.635	36.010	-2.33	0.41
			5250	4.600	36.017	4.706	35.930	-2.25	0.24
			5280	4.621	36.973	4.737	35.894	-2.45	3.01
			5320	4.669	36.907	4.778	35.846	-2.28	2.96
			5500	4.871	36.630	4.963	35.640	-1.85	2.78
	5600	4.999	36.498	5.065	35.530	-1.30	2.72		
	5750	5.17	36.262	5.219	35.360	-0.94	2.55		
	5800	5.208	36.202	5.270	35.300	-1.18	2.56		
	5825	5.232	36.160	5.296	35.270	-1.21	2.52		

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	10/20/2020	3797	1014	Head	22.0	21.9	8.39	0.427	8.54	+ 1.79	± 10
750	09/14/2020	3797		Head	22.9	22.7	8.39	0.395	7.9	- 5.84	± 10
750	09/14/2020	3903		Head	22.6	22.4	8.39	0.408	8.16	- 2.74	± 10
750	10/21/2020	7314		Head	21.2	21.1	8.39	0.429	8.58	+ 2.26	± 10
835	09/11/2020	1630	4d266	Head	22.1	21.9	9.44	0.504	10.08	+ 6.78	± 10
835	09/14/2020	1630		Head	22.3	22.1	9.44	0.502	10.04	+ 6.36	± 10
835	10/19/2020	7314		Head	21.8	21.6	9.44	0.479	9.58	+ 1.48	± 10
835	10/20/2020	3903		Head	21.2	21.1	9.44	0.495	9.9	+ 4.87	± 10
835	09/14/2020	3797		Head	22.9	22.7	9.44	0.501	10.02	+ 6.14	± 10
1 800	09/16/2020	3697	2d007	Head	21.9	21.7	38.1	1.93	38.6	+ 1.31	± 10
1 800	09/29/2020	1630		Head	22.9	22.7	38.1	1.84	36.8	- 3.41	± 10
1 800	10/27/2020	3076		Head	21.5	21.3	38.1	1.90	38	- 0.26	± 10
1 800	10/13/2020	7314		Head	21.3	21.1	38.1	1.89	37.8	- 0.79	± 10
1 900	09/11/2020	1630	5d061	Head	22.3	22.1	39.9	1.84	36.8	- 7.77	± 10
1 900	09/15/2020	1630		Head	22.1	21.9	39.9	1.83	36.6	- 8.27	± 10
1 900	09/15/2020	3697		Head	22.2	22.0	39.9	1.92	38.4	- 3.76	± 10
1 900	09/28/2020	1630		Head	22.9	22.7	39.9	1.96	39.2	- 1.75	± 10
1 900	09/28/2020	3697		Head	22.2	22.0	39.9	2.04	40.8	+ 2.26	± 10
2 300	10/13/2020	3797	1010	Head	21.4	21.2	48.2	2.42	48.4	+ 0.41	± 10
2 300	10/02/2020	3076		Head	21.4	21.2	48.2	2.46	49.2	+ 2.07	± 10
2 300	10/15/2020	3076		Head	20.1	20.0	48.2	2.34	46.8	- 2.90	± 10
2 300	10/30/2020	3968		Head	21.8	21.6	48.2	2.32	46.4	- 3.73	± 10
2 300	10/30/2020	3797		Head	21.8	21.6	48.2	2.33	46.6	- 3.32	± 10
2 450	09/21/2020	7370	1049	Head	22.9	22.7	51.4	2.75	55	+ 7.00	± 10
2 450	09/24/2020	7370		Head	22.5	22.3	51.4	2.50	50	- 2.72	± 10
2 450	09/25/2020	7370		Head	22.1	21.9	51.4	2.54	50.8	- 1.17	± 10
2 450	11/06/2020	3797		Head	21.2	21.0	51.4	2.58	51.6	- 0.39	± 10
2 600	10/05/2020	3076	1015	Head	20.8	20.7	56.7	2.89	57.8	+ 1.94	± 10
2 600	10/27/2020	3076		Head	21.2	21.0	56.7	2.86	57.2	+ 0.88	± 10
2 600	10/21/2020	3076		Head	20.4	20.3	56.7	2.71	54.2	- 4.41	± 10
2 600	09/28/2020	3076		Head	22.7	22.5	56.7	2.86	57.2	+ 0.88	± 10
2 600	10/20/2020	3076		Head	21.5	21.3	56.7	2.94	58.8	+ 3.70	± 10
2 600	10/22/2020	3076		Head	21.0	20.9	56.7	2.73	54.6	- 3.70	± 10
2 600	10/20/2020	3076		Head	21.5	21.3	56.7	2.78	55.6	- 1.94	± 10
3 500	10/02/2020	7370	1040	Head	21.4	21.2	64.5	3.37	67.4	+ 4.50	± 10
3 700	10/02/2020	7370	1066	Head	21.4	21.2	65.4	3.35	67.0	+ 2.45	± 10
3 700	10/21/2020	3967		Head	22.8	22.6	65.4	3.25	65.0	- 0.61	± 10
3 900	10/21/2020	3967	1019	Head	22.8	22.6	70.7	3.34	66.8	- 5.52	± 10

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 [%]
5 250	09/26/2020	3797	1253	Head	22.9	22.7	79.7	3.88	77.6	- 2.63	± 10
5 600		3797		Head	22.9	22.7	82.2	4.06	81.2	- 1.22	± 10
5 750		3797		Head	22.9	22.7	79.6	4.36	87.2	+ 9.55	± 10
5 250	09/26/2020	7370		Head	22.7	22.5	79.7	4.09	81.8	+ 2.63	± 10
5 600	09/27/2020	7370		Head	21.3	21.2	82.2	4.35	87	+ 5.84	± 10
5 750	09/28/2020	7370		Head	21.9	21.7	79.6	3.92	78.4	- 1.51	± 10
5 250	10/01/2020	7370		Head	22.1	21.9	79.7	3.92	78.4	- 1.63	± 10
5 600		7370		Head	22.1	21.9	82.2	4.26	85.2	+ 3.65	± 10
5 750		7370		Head	22.1	21.9	79.6	3.92	78.4	- 1.51	± 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	09/16/2020	3697	2d007	Head	21.9	21.7	19.7	0.991	19.82	+ 0.61	± 10
1 800	09/29/2020	1630		Head	22.9	22.7	19.7	1.04	20.8	+ 5.58	± 10
1 800	10/14/2020	7314		Head	22.3	22.1	19.7	1.00	20	+ 1.52	± 10
1 900	09/11/2020	1630	5d061	Head	22.3	22.1	20.7	1.01	20.2	- 2.42	± 10
1 900	09/15/2020	1630		Head	22.1	21.9	20.7	1.01	20.2	- 2.42	± 10
1 900	09/15/2020	3697		Head	22.2	22.0	20.7	0.967	19.34	- 6.57	± 10
1 900	09/28/2020	1630		Head	22.9	22.7	20.7	1.09	21.8	+ 5.31	± 10
1 900	09/28/2020	3697		Head	22.2	22.0	20.7	1.06	21.2	+ 2.42	± 10
2 300	10/12/2020	7370	1010	Head	21.8	21.6	23.5	1.15	23	- 2.13	± 10
2 300	10/15/2020	3076		Head	20.1	20.0	23.5	1.11	22.2	- 5.53	± 10
2 600	10/19/2020	3076	1015	Head	21.8	21.6	25.4	1.33	26.6	+ 4.72	± 10
2 600	10/20/2020	3076		Head	21.5	21.3	25.4	1.23	24.6	- 3.15	± 10
5 250	09/26/2020	3797	1253	Head	22.9	22.7	22.8	1.11	22.2	- 2.63	± 10
5 600	09/26/2020	3797		Head	22.9	22.7	23.5	1.17	23.4	- 0.43	± 10
5 250	09/26/2020	7370		Head	22.7	22.5	22.8	1.18	23.6	+ 3.51	± 10
5 600	09/27/2020	7370		Head	21.3	21.2	23.5	1.25	25	+ 6.38	± 10
5 250	10/01/2020	7370		Head	22.1	21.9	22.8	1.14	22.8	+ 0.00	± 10
5 600	10/01/2020	7370		Head	22.1	21.9	23.5	1.24	24.8	+ 5.53	± 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(DSI = 2)

CDMA BC10(\$90S)Head SAR - Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
820	560	CDMA BC10	RC3 / SO55	25.8	24.77	0.01	Left Cheek	1:1	27	0.159	1.268	0.202	-
820	560	CDMA BC10	RC3 / SO55	25.8	24.77	0.18	Left Tilt	1:1	27	0.098	1.268	0.124	-
820	560	CDMA BC10	RC3 / SO55	25.8	24.77	0.12	Right Cheek	1:1	27	0.227	1.268	0.288	1
820	560	CDMA BC10	RC3 / SO55	25.8	24.77	0.07	Right Tilt	1:1	27	0.101	1.268	0.128	-
820	560	CDMA BC10	EVDO Rev. A	25.8	24.54	0.19	Left Cheek	1:1	27	0.122	1.337	0.163	-
820	560	CDMA BC10	EVDO Rev. A	25.8	24.54	0.01	Left Tilt	1:1	27	0.086	1.337	0.115	-
820	560	CDMA BC10	EVDO Rev. A	25.8	24.54	0.01	Right Cheek	1:1	27	0.174	1.337	0.233	-
820	560	CDMA BC10	EVDO Rev. A	25.8	24.54	-0.01	Right Tilt	1:1	27	0.076	1.337	0.102	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

CDMA BC0(\$22H)Head SAR - Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
836.52	384	CDMA BC0	RC3 / SO55	25.8	24.51	0.12	Left Cheek	1:1	27	0.150	1.346	0.202	-
836.52	384	CDMA BC0	RC3 / SO55	25.8	24.51	0.15	Left Tilt	1:1	27	0.102	1.346	0.137	-
836.52	384	CDMA BC0	RC3 / SO55	25.8	24.51	0.10	Right Cheek	1:1	27	0.244	1.346	0.328	2
836.52	384	CDMA BC0	RC3 / SO55	25.8	24.51	0.18	Right Tilt	1:1	27	0.086	1.346	0.116	-
836.52	384	CDMA BC0	EVDO Rev. A	25.8	24.42	0.11	Left Cheek	1:1	27	0.132	1.374	0.181	-
836.52	384	CDMA BC0	EVDO Rev. A	25.8	24.42	0.02	Left Tilt	1:1	27	0.086	1.374	0.118	-
836.52	384	CDMA BC0	EVDO Rev. A	25.8	24.42	0.18	Right Cheek	1:1	27	0.207	1.374	0.284	-
836.52	384	CDMA BC0	EVDO Rev. A	25.8	24.42	0.03	Right Tilt	1:1	27	0.094	1.374	0.129	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

PCS CDMA Head SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.												
1880.0	600	PCS CDMA	RC3 / SO55	24.5	24.06	0.11	Left Cheek	1:1	14	0.238	1.107	0.263	3
1880.0	600	PCS CDMA	RC3 / SO55	24.5	24.06	0.06	Left Tilt	1:1	14	0.153	1.107	0.169	-
1880.0	600	PCS CDMA	RC3 / SO55	24.5	24.06	0.10	Right Cheek	1:1	14	0.180	1.107	0.199	-
1880.0	600	PCS CDMA	RC3 / SO55	24.5	24.06	-0.02	Right Tilt	1:1	14	0.142	1.107	0.157	-
1880.0	600	PCS CDMA	EVDO Rev. A	24.5	23.98	0.12	Left Cheek	1:1	14	0.223	1.127	0.251	-
1880.0	600	PCS CDMA	EVDO Rev. A	24.5	23.98	0.03	Left Tilt	1:1	14	0.176	1.127	0.198	-
1880.0	600	PCS CDMA	EVDO Rev. A	24.5	23.98	0.06	Right Cheek	1:1	14	0.197	1.127	0.222	-
1880.0	600	PCS CDMA	EVDO Rev. A	24.5	23.98	-0.04	Right Tilt	1:1	14	0.164	1.127	0.185	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

GSM 850 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.												(dB)
836.6	190	GSM	33.5	32.77	0.19	Left Cheek	1:8.3	0	0.045	1.183	0.053	-	
836.6	190	GSM	33.5	32.77	-0.14	Left Tilt	1:8.3	0	0.026	1.183	0.031	-	
836.6	190	GSM	33.5	32.77	0.12	Right Cheek	1:8.3	0	0.067	1.183	0.079	-	
836.6	190	GSM	33.5	32.77	0.17	Right Tilt	1:8.3	0	0.027	1.183	0.032	-	
836.6	190	GPRS 2Tx	32.0	31.87	0.19	Left Cheek	1:4.15	0	0.155	1.030	0.160	-	
836.6	190	GPRS 2Tx	32.0	31.87	-0.08	Left Tilt	1:4.15	0	0.101	1.030	0.104	-	
836.6	190	GPRS 2Tx	32.0	31.87	0.15	Right Cheek	1:4.15	0	0.185	1.030	0.191	4	
836.6	190	GPRS 2Tx	32.0	31.87	0.16	Right Tilt	1:4.15	0	0.108	1.030	0.111	-	
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- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.												(dB)
1 880	661	GSM	30.0	28.85	0.17	Left Cheek	1:8.3	0	0.133	1.303	0.173	-	
1 880	661	GSM	30.0	28.85	0.12	Left Tilt	1:8.3	0	0.085	1.303	0.111	-	
1 880	661	GSM	30.0	28.85	0.12	Right Cheek	1:8.3	0	0.087	1.303	0.113	-	
1 880	661	GSM	30.0	28.85	0.09	Right Tilt	1:8.3	0	0.079	1.303	0.103	-	
1 880	661	GPRS 3Tx	27.5	26.18	-0.12	Left Cheek	1:2.77	0	0.164	1.355	0.222	5	
1 880	661	GPRS 3Tx	27.5	26.18	-0.04	Left Tilt	1:2.77	0	0.102	1.355	0.138	-	
1 880	661	GPRS 3Tx	27.5	26.18	-0.10	Right Cheek	1:2.77	0	0.106	1.355	0.144	-	
1 880	661	GPRS 3Tx	27.5	26.18	-0.02	Right Tilt	1:2.77	0	0.098	1.355	0.133	-	
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

UMTS 850 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
836.6	4183	RMC	25.5	24.76	0.17	Left Cheek	1:1	02	0.182	1.186	0.216	-
836.6	4183	RMC	25.5	24.76	0.08	Left Tilt	1:1	02	0.122	1.186	0.145	-
836.6	4183	RMC	25.5	24.76	0.16	Right Cheek	1:1	02	0.205	1.186	0.243	6
836.6	4183	RMC	25.5	24.76	-0.18	Right Tilt	1:1	02	0.103	1.186	0.122	-
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 1700 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 732.4	1412	RMC	24.5	24.48	-0.17	Left Cheek	1:1	01	0.273	1.005	0.274	7
1 732.4	1412	RMC	24.5	24.48	0.07	Left Tilt	1:1	01	0.181	1.005	0.182	-
1 732.4	1412	RMC	24.5	24.48	0.12	Right Cheek	1:1	01	0.145	1.005	0.146	-
1 732.4	1412	RMC	24.5	24.48	0.18	Right Tilt	1:1	01	0.118	1.005	0.119	-
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 1900 Head SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 880	9400	RMC	24.5	24.18	-0.06	Left Cheek	1:1	01	0.218	1.076	0.235	8
1 880	9400	RMC	24.5	24.18	0.07	Left Tilt	1:1	01	0.072	1.076	0.078	-
1 880	9400	RMC	24.5	24.18	0.02	Right Cheek	1:1	01	0.139	1.076	0.150	-
1 880	9400	RMC	24.5	24.18	0.12	Right Tilt	1:1	01	0.107	1.076	0.115	-
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- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
2 510	20850	QPSK	20	24.0	23.25	-0.10	Left Cheek	0	1	99	1:1	0	0.126	1.189	0.150	9
2 510	20850	QPSK	20	23.0	22.36	0.10	Left Cheek	1	50	49	1:1	0	0.095	1.159	0.110	-
2 510	20850	QPSK	20	24.0	23.25	0.19	Left Tilt	0	1	99	1:1	0	0.059	1.189	0.070	-
2 510	20850	QPSK	20	23.0	22.36	0.08	Left Tilt	1	50	49	1:1	0	0.028	1.159	0.032	-
2 510	20850	QPSK	20	24.0	23.25	0.11	Right Cheek	0	1	99	1:1	0	0.083	1.189	0.099	-
2 510	20850	QPSK	20	23.0	22.36	-0.16	Right Cheek	1	50	49	1:1	0	0.062	1.159	0.072	-
2 510	20850	QPSK	20	24.0	23.25	-0.10	Right Tilt	0	1	99	1:1	0	0.092	1.189	0.109	-
2 510	20850	QPSK	20	23.0	22.36	0.19	Right Tilt	1	50	49	1:1	0	0.072	1.159	0.083	-
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- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
707.5	23095	QPSK	10	25.8	24.92	0.06	Left Cheek	0	1	0	1:1	54	0.128	1.225	0.157	-
707.5	23095	QPSK	10	24.8	23.98	0.17	Left Cheek	1	25	0	1:1	54	0.108	1.208	0.130	-
707.5	23095	QPSK	10	25.8	24.92	0.09	Left Tilt	0	1	0	1:1	54	0.060	1.225	0.073	-
707.5	23095	QPSK	10	24.8	23.98	-0.18	Left Tilt	1	25	0	1:1	54	0.021	1.208	0.025	-
707.5	23095	QPSK	10	25.8	24.92	-0.11	Right Cheek	0	1	0	1:1	54	0.164	1.225	0.201	10
707.5	23095	QPSK	10	24.8	23.98	0.12	Right Cheek	1	25	0	1:1	54	0.137	1.208	0.165	-
707.5	23095	QPSK	10	25.8	24.92	-0.07	Right Tilt	0	1	0	1:1	54	0.085	1.225	0.104	-
707.5	23095	QPSK	10	24.8	23.98	-0.10	Right Tilt	1	25	0	1:1	54	0.018	1.208	0.022	-
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- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
782	23230	QPSK	10	25.8	24.21	0.14	Left Cheek	0	1	0	1:1	55	0.107	1.442	0.154	-
782	23230	QPSK	10	24.8	23.26	0.18	Left Cheek	1	25	0	1:1	55	0.105	1.426	0.150	-
782	23230	QPSK	10	25.8	24.21	-0.03	Left Tilt	0	1	0	1:1	55	0.077	1.442	0.111	-
782	23230	QPSK	10	24.8	23.26	0.10	Left Tilt	1	25	0	1:1	55	0.062	1.426	0.088	-
782	23230	QPSK	10	25.8	24.21	0.15	Right Cheek	0	1	0	1:1	55	0.193	1.442	0.278	11
782	23230	QPSK	10	24.8	23.26	-0.10	Right Cheek	1	25	0	1:1	55	0.151	1.426	0.215	-
782	23230	QPSK	10	25.8	24.21	-0.03	Right Tilt	0	1	0	1:1	55	0.099	1.442	0.143	-
782	23230	QPSK	10	24.8	23.26	0.01	Right Tilt	1	25	0	1:1	55	0.075	1.426	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 14 Head SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
793	23330	QPSK	10	25.8	24.42	-0.13	Left Cheek	0	1	0	1:1	54	0.144	1.374	0.198	-
793	23330	QPSK	10	24.8	23.47	-0.14	Left Cheek	1	25	0	1:1	54	0.110	1.358	0.149	-
793	23330	QPSK	10	25.8	24.42	0.18	Left Tilt	0	1	0	1:1	54	0.099	1.374	0.136	-
793	23330	QPSK	10	24.8	23.47	-0.10	Left Tilt	1	25	0	1:1	54	0.066	1.358	0.090	-
793	23330	QPSK	10	25.8	24.42	-0.15	Right Cheek	0	1	0	1:1	54	0.209	1.374	0.287	12
793	23330	QPSK	10	24.8	23.47	-0.05	Right Cheek	1	25	0	1:1	54	0.160	1.358	0.217	-
793	23330	QPSK	10	25.8	24.42	0.16	Right Tilt	0	1	0	1:1	54	0.102	1.374	0.140	-
793	23330	QPSK	10	24.8	23.47	0.11	Right Tilt	1	25	0	1:1	54	0.080	1.358	0.109	-
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- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
1 882.5	26365	QPSK	20	24.5	23.65	0.18	Left Cheek	0	1	0	1:1	15	0.068	1.216	0.083	-
1 882.5	26365	QPSK	20	23.5	22.77	0.04	Left Cheek	1	50	0	1:1	15	0.111	1.183	0.131	-
1 882.5	26365	QPSK	20	24.5	23.65	-0.02	Left Tilt	0	1	0	1:1	15	0.095	1.216	0.116	-
1 882.5	26365	QPSK	20	23.5	22.77	-0.11	Left Tilt	1	50	0	1:1	15	0.070	1.183	0.083	-
1 882.5	26365	QPSK	20	24.5	23.65	-0.07	Right Cheek	0	1	0	1:1	15	0.117	1.216	0.142	13
1 882.5	26365	QPSK	20	23.5	22.77	0.01	Right Cheek	1	50	0	1:1	15	0.098	1.183	0.116	-
1 882.5	26365	QPSK	20	24.5	23.65	-0.04	Right Tilt	0	1	0	1:1	15	0.099	1.216	0.120	-
1 882.5	26365	QPSK	20	23.5	22.77	0.04	Right Tilt	1	50	0	1:1	15	0.076	1.183	0.090	-
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- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
831.5	26865	QPSK	15	25.8	24.52	0.12	Left Cheek	0	1	0	1:1	04	0.039	1.343	0.052	-
831.5	26865	QPSK	15	24.8	23.52	0.12	Left Cheek	1	36	0	1:1	04	0.032	1.343	0.043	-
831.5	26865	QPSK	15	25.8	24.52	0.12	Left Tilt	0	1	0	1:1	04	0.023	1.343	0.031	-
831.5	26865	QPSK	15	24.8	23.52	0.17	Left Tilt	1	36	0	1:1	04	0.021	1.343	0.028	-
831.5	26865	QPSK	15	25.8	24.52	-0.17	Right Cheek	0	1	0	1:1	04	0.213	1.343	0.286	-
831.5	26865	QPSK	15	24.8	23.52	0.12	Right Cheek	1	36	0	1:1	04	0.170	1.343	0.228	-
831.5	26865	QPSK	15	25.8	24.52	0.18	Right Tilt	0	1	0	1:1	04	0.107	1.343	0.144	-
831.5	26865	QPSK	15	24.8	23.52	-0.13	Right Tilt	1	36	0	1:1	04	0.084	1.343	0.113	-

LTE Band 5 Up-link Carrier Aggregation

PCC	20476	QPSK	10	25.8	24.42	-0.16	Left Cheek	0	1	49	1:1	04	0.259	1.374	0.356	14
831.6	20575		10						1	0						
SCC	841.5															

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- Ant. B

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
2 310	27710	QPSK	10	24.2	23.51	0.04	Left Cheek	0	1	0	1:1		0.121	1.172	0.142	15
2 310	27710	QPSK	10	23.2	22.60	0.17	Left Cheek	1	25	0	1:1		0.104	1.148	0.119	-
2 310	27710	QPSK	10	24.2	23.51	0.18	Left Tilt	0	1	0	1:1		0.034	1.172	0.040	-
2 310	27710	QPSK	10	23.2	22.60	0.11	Left Tilt	1	25	0	1:1		0.035	1.148	0.040	-
2 310	27710	QPSK	10	24.2	23.51	0.05	Right Cheek	0	1	0	1:1		0.083	1.172	0.097	-
2 310	27710	QPSK	10	23.2	22.60	0.11	Right Cheek	1	25	0	1:1		0.066	1.148	0.076	-
2 310	27710	QPSK	10	24.2	23.51	0.12	Right Tilt	0	1	0	1:1		0.100	1.172	0.117	-
2 310	27710	QPSK	10	23.2	22.60	0.19	Right Tilt	1	25	0	1:1		0.078	1.148	0.090	-

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 Head SAR _ Lower frequency range- Ant. B															
Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.														
2 310	38750	QPSK	10	14.0	13.18	-0.16	Left Cheek	0	1	24	1:1.58	0.00583	1.208	0.007	16
2 310	38750	QPSK	10	14.0	12.25	0.00	Left Cheek	0	25	12	1:1.58	0.00445	1.496	0.007	-
2 310	38750	QPSK	10	14.0	13.18	0.18	Left Tilt	0	1	24	1:1.58	0.00324	1.208	0.004	-
2 310	38750	QPSK	10	14.0	12.25	0.06	Left Tilt	0	25	12	1:1.58	0.00153	1.496	0.002	-
2 310	38750	QPSK	10	14.0	13.18	-0.10	Right Cheek	0	1	24	1:1.58	0.00394	1.208	0.005	-
2 310	38750	QPSK	10	14.0	12.25	-0.10	Right Cheek	0	25	12	1:1.58	0.00144	1.496	0.002	-
2 310	38750	QPSK	10	14.0	13.18	-0.14	Right Tilt	0	1	24	1:1.58	0.00168	1.208	0.002	-
2 310	38750	QPSK	10	14.0	12.25	0.10	Right Tilt	0	25	12	1:1.58	0.00334	1.496	0.005	-
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 Head SAR _ Upper frequency range- Ant. B															
Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.														
2 355	39200	QPSK	10	14.0	13.13	0.10	Left Cheek	0	1	24	1:1.58	0.00627	1.222	0.008	17
2 355	39200	QPSK	10	14.0	12.20	0.00	Left Cheek	0	25	24	1:1.58	0.00488	1.514	0.007	-
2 355	39200	QPSK	10	14.0	13.13	0.13	Left Tilt	0	1	24	1:1.58	0.00321	1.222	0.004	-
2 355	39200	QPSK	10	14.0	12.20	0.17	Left Tilt	0	25	24	1:1.58	0.00207	1.514	0.003	-
2 355	39200	QPSK	10	14.0	13.13	0.10	Right Cheek	0	1	24	1:1.58	0.00239	1.222	0.003	-
2 355	39200	QPSK	10	14.0	12.20	0.00	Right Cheek	0	25	24	1:1.58	0.0015	1.514	0.002	-
2 355	39200	QPSK	10	14.0	13.13	0.01	Right Tilt	0	1	24	1:1.58	0.00365	1.222	0.004	-
2 355	39200	QPSK	10	14.0	12.20	0.10	Right Tilt	0	25	24	1:1.58	0.00186	1.514	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- Ant. B																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																(MHz)
Power class 3																	
2 680.0	41490	QPSK	20	25.0	23.99	0.12	Left Cheek	0	1	0	1:1.58		0.141	1.262	0.178		
2 680.0	41490	QPSK	20	24.0	23.06	0.14	Left Cheek	1	50	0	1:1.58		0.114	1.242	0.142	-	
2 680.0	41490	QPSK	20	25.0	23.99	0.17	Left Tilt	0	1	0	1:1.58		0.058	1.262	0.073	-	
2 680.0	41490	QPSK	20	24.0	23.06	0.17	Left Tilt	1	50	0	1:1.58		0.026	1.242	0.032	-	
2 680.0	41490	QPSK	20	25.0	23.99	-0.12	Right Cheek	0	1	0	1:1.58		0.077	1.262	0.097	-	
2 680.0	41490	QPSK	20	24.0	23.06	0.11	Right Cheek	1	50	0	1:1.58		0.060	1.242	0.075	-	
2 680.0	41490	QPSK	20	25.0	23.99	0.16	Right Tilt	0	1	0	1:1.58		0.069	1.262	0.087	-	
2 680.0	41490	QPSK	20	24.0	23.06	0.14	Right Tilt	1	50	0	1:1.58		0.071	1.242	0.088	-	
Power class 2 (HPUE)																	
2 680.0	41490	QPSK	20	27.3	26.20	-0.14	Left Cheek	0	1	0	1:2.31		0.157	1.288	0.202	18**	
Up-link Carrier Aggregation Power class 3(41C)																	
2680	41490	QPSK	PCC	20	25.0	24.28	0.10	Left Cheek	0	1	0	1:1.58		0.136	1.180	0.160	-
2660.2	41292	QPSK	SCC	20						1	99						
Up-link Carrier Aggregation Power class 2(HPUE) (41C)																	
2680	41490	QPSK	PCC	20	27.3	26.83	0.18	Left Cheek	0	1	99	1:2.31		0.088	1.114	0.098	-
2660.2	41292	QPSK	SCC	20						1	0						
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 PowerClass 2(HPUE)

LTE TDD Band 48 Head SAR- Ant. G (RCV-ON)																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																(MHz)
3 690	56640	QPSK	20	20.0	19.16	-0.12	Left Cheek	0	1	0	1:1.58		0.314	1.213	0.381	-	
3 690	56640	QPSK	20	20.0	19.20	-0.15	Left Cheek	0	50	0	1:1.58		0.321	1.202	0.386	-	
3 690	56640	QPSK	20	20.0	19.16	0.06	Left Tilt	0	1	0	1:1.58		0.064	1.213	0.078	-	
3 690	56640	QPSK	20	20.0	19.20	0.02	Left Tilt	0	50	0	1:1.58		0.067	1.202	0.081	-	
3 690	56640	QPSK	20	20.0	19.16	0.18	Right Cheek	0	1	0	1:1.58		0.429	1.213	0.520	-	
3 690	56640	QPSK	20	20.0	19.20	-0.11	Right Cheek	0	50	0	1:1.58		0.446	1.202	0.536	19	
3 690	56640	QPSK	20	20.0	19.16	0.13	Right Tilt	0	1	0	1:1.58		0.029	1.213	0.035	-	
3 690	56640	QPSK	20	20.0	19.20	0.12	Right Tilt	0	50	0	1:1.58		0.030	1.202	0.036	-	
Up-link Carrier Aggregation (48C)																	
3 690	56640	QPSK	PCC	20	20.0	19.37	-0.16	Right Cheek	0	1	0	1:1.58		0.387	1.156	0.447	-
3670.2	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- Ant. A																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																(MHz)
1 745	132322	QPSK	20	24.5	23.75	0.10	Left Cheek	0	1	0	1:1	01	0.205	1.189	0.244	-	
1 745	132322	QPSK	20	23.5	22.82	0.11	Left Cheek	1	50	0	1:1	01	0.169	1.169	0.198	-	
1 745	132322	QPSK	20	24.5	23.75	-0.07	Left Tilt	0	1	0	1:1	01	0.109	1.189	0.130	-	
1 745	132322	QPSK	20	23.5	22.82	-0.03	Left Tilt	1	50	0	1:1	01	0.091	1.169	0.106	-	
1 745	132322	QPSK	20	24.5	23.75	0.06	Right Cheek	0	1	0	1:1	01	0.139	1.189	0.165	-	
1 745	132322	QPSK	20	23.5	22.82	0.15	Right Cheek	1	50	0	1:1	01	0.116	1.169	0.136	-	
1 745	132322	QPSK	20	24.5	23.75	0.15	Right Tilt	0	1	0	1:1	01	0.110	1.189	0.131	-	
1 745	132322	QPSK	20	23.5	22.82	-0.13	Right Tilt	1	50	0	1:1	01	0.088	1.169	0.103	-	
Up-link Carrier Aggregation (66B)																	
1 745	132322	QPSK	PCC	10	24.5	23.98	-0.08	Left Cheek	0	1	0	1:1	01	0.241	1.127	0.272	20
1 735.1	132223	QPSK	SCC	20					0	1	49						
Up-link Carrier Aggregation (66C)																	
1 745	132322	QPSK	PCC	20	24.5	24.17	0.15	Left Cheek	0	1	0	1:1	01	0.248	1.079	0.268	-
1725.2	132124	QPSK	SCC	20					0	1	99						
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- Ant. A																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																(MHz)
680.5	133297	QPSK	20	25.8	24.92	-0.03	Left Cheek	0	1	0	1:1	54	0.116	1.225	0.142	-	
680.5	133297	QPSK	20	24.8	23.95	0.15	Left Cheek	1	50	0	1:1	54	0.089	1.216	0.108	-	
680.5	133297	QPSK	20	25.8	24.92	0.12	Left Tilt	0	1	0	1:1	54	0.059	1.225	0.072	-	
680.5	133297	QPSK	20	24.8	23.95	-0.12	Left Tilt	1	50	0	1:1	54	0.043	1.216	0.052	-	
680.5	133297	QPSK	20	25.8	24.92	0.19	Right Cheek	0	1	0	1:1	54	0.140	1.225	0.171	21	
680.5	133297	QPSK	20	24.8	23.95	0.14	Right Cheek	1	50	0	1:1	54	0.114	1.216	0.139	-	
680.5	133297	QPSK	20	25.8	24.92	0.06	Right Tilt	0	1	0	1:1	54	0.055	1.225	0.067	-	
680.5	133297	QPSK	20	24.8	23.95	-0.01	Right Tilt	1	50	0	1:1	54	0.043	1.216	0.052	-	
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- Ant. A																
Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset	Cycle				(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	0.12	Left Cheek	0	1	53	1:1	0	0.141	1.274	0.180	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	-0.10	Left Cheek	0	50	28	1:1	0	0.143	1.253	0.179	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	0.09	Left Tilt	0	1	53	1:1	0	0.080	1.274	0.102	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	0.15	Left Tilt	0	50	28	1:1	0	0.096	1.253	0.120	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	0.07	Right Cheek	0	1	53	1:1	0	0.191	1.274	0.243	22
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	0.13	Right Cheek	0	50	28	1:1	0	0.188	1.253	0.236	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	0.10	Right Tilt	0	1	53	1:1	0	0.082	1.274	0.104	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	0.13	Right Tilt	0	50	28	1:1	0	0.080	1.253	0.100	-
836.5	167300	CP QPSK	20	24.3	23.32	0.11	Right Cheek	1.5	1	1	1:1	0	0.095	1.253	0.119	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n12Head SAR- Ant. A																
Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset	Cycle				(W/kg)	
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	0.13	Left Cheek	0	1	1	1:1	0	0.101	1.180	0.119	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	-0.12	Left Cheek	0	36	22	1:1	0	0.106	1.202	0.127	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	0.17	Left Tilt	0	1	1	1:1	0	0.069	1.180	0.081	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	-0.07	Left Tilt	0	36	22	1:1	0	0.065	1.202	0.078	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	0.12	Right Cheek	0	1	1	1:1	0	0.119	1.180	0.140	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	-0.03	Right Cheek	0	36	22	1:1	0	0.128	1.202	0.154	23
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	-0.04	Right Tilt	0	1	1	1:1	0	0.062	1.180	0.073	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	-0.03	Right Tilt	0	36	22	1:1	0	0.070	1.202	0.084	-
707.5	141500	CP QPSK	15	24.0	23.48	-0.03	Right Cheek	1.5	1	1	1:1	0	0.088	1.127	0.099	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n25Head SAR- Ant. A																
Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	0.12	Left Cheek	0	1	1	1:1	0	0.212	1.167	0.247	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	-0.10	Left Cheek	0	108	54	1:1	0	0.241	1.256	0.303	24
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	-0.11	Left Tilt	0	1	1	1:1	0	0.120	1.167	0.140	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	-0.13	Left Tilt	0	108	54	1:1	0	0.092	1.256	0.116	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	-0.13	Right Cheek	0	1	1	1:1	0	0.122	1.167	0.142	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	0.10	Right Cheek	0	108	54	1:1	0	0.116	1.256	0.146	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	-0.10	Right Tilt	0	1	1	1:1	0	0.131	1.167	0.153	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	0.14	Right Tilt	0	108	54	1:1	0	0.135	1.256	0.170	-
1 882.5	376500	CP QPSK	40	23.0	22.48	-0.14	Left Cheek	1.5	1	1	1:1	0	0.137	1.127	0.154	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n30Head SAR- Ant. B																
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)
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	-0.03	Left Cheek	0	1	26	1:1	0.106	1.109	0.118	25	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	-0.17	Left Cheek	0	25	14	1:1	0.081	1.072	0.087	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	0.12	Left Tilt	0	1	26	1:1	0.050	1.109	0.055	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	-0.08	Left Tilt	0	25	14	1:1	0.044	1.072	0.047	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	-0.16	Right Cheek	0	1	26	1:1	0.066	1.109	0.073	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	-0.19	Right Cheek	0	25	14	1:1	0.065	1.072	0.070	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	0.09	Right Tilt	0	1	26	1:1	0.085	1.109	0.094	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	-0.02	Right Tilt	0	25	14	1:1	0.073	1.072	0.078	-	
2 310	462000	CP QPSK	10	22.5	21.98	-0.13	Left Cheek	1.5	1	1	1:1	0.072	1.127	0.081	-	
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 (Lower Antenna) - Ant. B															
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.														
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.00	0.14	Left Cheek	0	1	1	1:1	0.037	1.122	0.042	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	0.16	Left Cheek	0	135	69	1:1	0.072	1.117	0.080	26
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.00	-0.19	Left Tilt	0	1	1	1:1	0.014	1.122	0.016	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	0.17	Left Tilt	0	135	69	1:1	0.018	1.117	0.020	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.00	0.14	Right Cheek	0	1	1	1:1	0.025	1.122	0.028	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	0.13	Right Cheek	0	135	69	1:1	0.025	1.117	0.028	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.00	0.12	Right Tilt	0	1	1	1:1	0.029	1.122	0.033	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	-0.12	Right Tilt	0	135	69	1:1	0.029	1.117	0.032	-
2592.99	518598	CP QPSK	100	24.0	23.68	0.14	Left Cheek	1.5	1	1	1:1	0.036	1.076	0.039	-
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 (Upper Antenna) - Ant. F, RCV_ON															
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.														
2592.99	518598	DFT-s OFDM QPSK	100	20	19.94	0.11	Left Cheek	0	1	1	1:1	0.134	1.014	0.136	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.92	0.01	Left Cheek	0	135	0	1:1	0.130	1.019	0.132	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.94	0.11	Left Tilt	0	1	1	1:1	0.137	1.014	0.139	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.92	0.12	Left Tilt	0	135	0	1:1	0.153	1.019	0.156	27
2592.99	518598	DFT-s OFDM QPSK	100	20	19.94	-0.11	Right Cheek	0	1	1	1:1	0.085	1.014	0.086	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.92	0.11	Right Cheek	0	135	0	1:1	0.080	1.019	0.082	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.94	0.15	Right Tilt	0	1	1	1:1	0.073	1.014	0.074	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.92	0.12	Right Tilt	0	135	0	1:1	0.078	1.019	0.079	-
2592.99	518598	CP QPSK	100	20	19.81	0.04	Left Cheek	0	1	1	1:1	0.148	1.045	0.155	-
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 n41 Head SAR – Power class 2 (Upper Antenna) - Ant. F, RCV-ON															
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.														
2592.99	518598	DFT-s OFDM QPSK	100	20	19.95	-0.19	Left Cheek	0	1	1	1:1	0.143	1.012	0.145	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.85	-0.03	Left Cheek	0	135	69	1:1	0.142	1.035	0.147	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.95	-0.16	Left Tilt	0	1	1	1:1	0.146	1.012	0.148	28
2592.99	518598	DFT-s OFDM QPSK	100	20	19.85	0.17	Left Tilt	0	135	69	1:1	0.078	1.035	0.081	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.95	-0.12	Right Cheek	0	1	1	1:1	0.088	1.012	0.089	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.85	-0.04	Right Cheek	0	135	69	1:1	0.088	1.035	0.091	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.95	0.14	Right Tilt	0	1	1	1:1	0.050	1.012	0.051	-
2592.99	518598	DFT-s OFDM QPSK	100	20	19.85	0.19	Right Tilt	0	135	69	1:1	0.080	1.035	0.083	-
2592.99	518598	CP QPSK	100	20	19.57	0.10	Left Cheek	0	1	1	1:1	0.134	1.104	0.147	-
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 n66Head SAR- Ant. A																
Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
1745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.10	Left Cheek	0	1	1	1:1	01	0.274	1.054	0.289	29
1745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.14	Left Cheek	0	108	54	1:1	01	0.253	1.109	0.281	-
1745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.03	Left Tilt	0	1	1	1:1	01	0.168	1.054	0.177	-
1745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.00	Left Tilt	0	108	54	1:1	01	0.147	1.109	0.163	-
1745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.11	Right Cheek	0	1	1	1:1	01	0.199	1.054	0.210	-
1745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.19	Right Cheek	0	108	54	1:1	01	0.179	1.109	0.199	-
1745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.17	Right Tilt	0	1	1	1:1	01	0.157	1.054	0.165	-
1745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.14	Right Tilt	0	108	54	1:1	01	0.134	1.109	0.149	-
1745	349000	CP QPSK	40	23.0	22.98	0.19	Left Cheek	1.5	1	1	1:1	01	0.184	1.419	0.261	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n71Head SAR- Ant. A																
Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	-0.05	Left Cheek	0	1	1	1:1	54	0.072	1.459	0.105	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	0.18	Left Cheek	0	50	28	1:1	54	0.090	1.452	0.131	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	0.10	Left Tilt	0	1	1	1:1	54	0.040	1.459	0.058	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	-0.09	Left Tilt	0	50	28	1:1	54	0.062	1.452	0.090	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	-0.07	Right Cheek	0	1	1	1:1	54	0.085	1.459	0.124	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	0.13	Right Cheek	0	50	28	1:1	54	0.114	1.452	0.166	30
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	-0.01	Right Tilt	0	1	1	1:1	54	0.053	1.459	0.077	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	0.18	Right Tilt	0	50	28	1:1	54	0.076	1.452	0.110	-
680.5	136100	CP QPSK	20	24.3	24.28	-0.04	Right Cheek	1.5	1	1	1:1	54	0.058	1.005	0.058	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram									

NR Band n77Head SAR- Power class 3- Ant. G,RCV-ON															
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.														
3840	656000	DFT-s OFDM QPSK	100	19.0	18.80	-0.12	Left Cheek	0	1	271	1:1	0.069	1.047	0.072	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.49	0.17	Left Cheek	0	135	69	1:1	0.087	1.125	0.098	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.80	0.11	Left Tilt	0	1	271	1:1	0.008	1.047	0.008	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.49	0.11	Left Tilt	0	135	69	1:1	0.008	1.125	0.009	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.80	-0.10	Right Cheek	0	1	271	1:1	0.158	1.047	0.165	31
3840	656000	DFT-s OFDM QPSK	100	19.0	18.49	-0.13	Right Cheek	0	135	69	1:1	0.141	1.125	0.159	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.80	-0.13	Right Tilt	0	1	271	1:1	0.005	1.047	0.005	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.49	0.17	Right Tilt	0	135	69	1:1	0.006	1.125	0.007	-
3840	656000	CP QPSK	100	19.0	18.99	0.13	Right Cheek	0	1	1	1:1	0.138	1.002	0.138	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

* Head condition during Receiver_ON conditions

NR Band n77Head SAR - Power class 2- Ant. G, RCV-ON

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.														
3840	656000	DFT-s OFDM QPSK	100	19.0	18.75	-0.15	Left Cheek	0	1	271	1:1	0.061	1.059	0.065	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.65	-0.11	Left Cheek	0	135	69	1:1	0.073	1.084	0.079	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.75	-0.11	Left Tilt	0	1	271	1:1	0.012	1.059	0.013	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.65	0.01	Left Tilt	0	135	69	1:1	0.013	1.084	0.014	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.75	-0.10	Right Cheek	0	1	271	1:1	0.143	1.059	0.151	32
3840	656000	DFT-s OFDM QPSK	100	19.0	18.65	0.00	Right Cheek	0	135	69	1:1	0.120	1.084	0.130	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.75	-0.13	Right Tilt	0	1	271	1:1	0.005	1.059	0.005	-
3840	656000	DFT-s OFDM QPSK	100	19.0	18.65	-0.01	Right Tilt	0	135	69	1:1	0.003	1.084	0.003	-
3840	656000	CP QPSK	100	19.0	18.38	0.01	Right Cheek	0	1	1	1:1	0.130	1.153	0.150	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

* Head condition during Receiver_ON conditions

DTS Head SAR, RCV-ON

Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Scaled SAR	Plot No.
Mhz	Ch.															
2 437	6	802.11b	20	1	17	16.58	0.11	Left Cheek	Ant1	98.8	1.15	0.611	1.102	1.012	0.681	-
2 437	6	802.11b	20	1	17	16.58		Left Tilt	Ant1	98.8	0.0846		1.102	1.012		-
2 437	6	802.11b	20	1	17	16.58	0.07	Right Cheek	Ant1	98.8	0.97	0.659	1.102	1.012	0.735	33
2 437	6	802.11b	20	1	17	16.58	0.17	Right Tilt	Ant1	98.8	0.148	0.092	1.102	1.012	0.103	-
2 462	11	802.11b	20	1	17	16.94		Left Cheek	Ant2	98.8	0.0228		1.014	1.012		-
2 462	11	802.11b	20	1	17	16.94		Left Tilt	Ant2	98.8	0.0876		1.014	1.012		-
2 462	11	802.11b	20	1	17	16.94		Right Cheek	Ant2	98.8	0.0954		1.014	1.012		-
2 462	11	802.11b	20	1	17	16.94	-0.14	Right Tilt	Ant2	98.8	0.110	0.026	1.014	1.012	0.027	-
2 437	6	802.11g	20	6Mbps	20	19.81	0.04	Left Cheek	MIMO	93.4	0.406	0.252	1.102	1.071	0.297	-
2 437	6	802.11g	20	6Mbps	20	19.81		Left Tilt	MIMO	93.4	0.089		1.021	1.080		-
2 437	6	802.11g	20	6Mbps	20	19.81	0.12	Right Cheek	MIMO	93.4	0.691	0.449	1.102	1.071	0.495	-
2 437	6	802.11g	20	6Mbps	20	19.81		Right Tilt	MIMO	93.4	0.127		1.021	1.080		-
ANSI/ IEEE C95.1 - 2005 - Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Head 1.6 W/kg Averaged over 1 gram						

DTS Head SAR 1g – RSDB/mmWave active, 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	14	13.55		Left Cheek	Ant1	98.8	0.249		1.109	1.012		-
2 437	6	802.11b	20	1	14	13.55		Left Tilt	Ant1	98.8	0.0308		1.109	1.012		-
2 437	6	802.11b	20	1	14	13.55	0.17	Right Cheek	Ant1	98.8	0.285	0.139	1.109	1.012	0.156	34
2 437	6	802.11b	20	1	14	13.55		Right Tilt	Ant1	98.8	0.0522		1.109	1.012		-
2 462	11	802.11b	20	1	14	13.92		Left Cheek	Ant2	98.8	0.05					-
2 462	11	802.11b	20	1	14	13.92	0.01	Left Tilt	Ant2	98.8	0.023					-
2 462	11	802.11b	20	1	14	13.92		Right Cheek	Ant2	98.8	0.078	0.016	1.019	1.007	0.016	-
2 462	11	802.11b	20	1	14	13.92		Right Tilt	Ant2	98.8	0.051					-
2 462	11	802.11g	20	6	17	16.51		Left Cheek	MIMO	93.4	0.102		1.119	1.071		-
2 462	11	802.11g	20	6	17	16.51		Left Tilt	MIMO	93.4	0.0286		1.119	1.071		-
2 462	11	802.11g	20	6	17	16.51	0.15	Right Cheek	MIMO	93.4	0.14	0.058	1.119	1.071	0.070	35
2 462	11	802.11g	20	6	17	16.51		Right Tilt	MIMO	93.4	0.0413		1.119	1.071		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Head 1.6 W/kg Averaged over 1 gram						

- * Head condition during simultaneous conditions with 5 GHz WLAN
- * Head condition during simultaneous conditions with mmWave and/or 5 GHz WLAN

NII Head SAR , RCV-ON																
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
5 290	58	802.11ac	80	MCS0	14.0	13.41	0.11	Left Cheek	Ant1	86.0	0.515	0.213	1.146	1.163	0.284	-
5 290	58	802.11ac	80	MCS0	14.0	13.41		Left Tilt	Ant1	86.0	0.190		1.146	1.163		-
5 290	58	802.11ac	80	MCS0	14.0	13.41	0.10	Right Check	Ant1	86.0	1.16	0.375	1.146	1.163	0.500	36
5 290	58	802.11ac	80	MCS0	14.0	13.41		Right Tilt	Ant1	86.0	0.376		1.146	1.163		-
5 290	58	802.11ac	80	MCS0	14.0	13.21		Left Cheek	Ant2	86.0	0.0192		1.199	1.163		-
5 290	58	802.11ac	80	MCS0	14.0	13.21		Left Tilt	Ant2	86.0	0.025		1.199	1.163		-
5 290	58	802.11ac	80	MCS0	14.0	13.21		Right Check	Ant2	86.0	0		1.199	1.163		-
5 290	58	802.11ac	80	MCS0	14.0	13.21	0.11	Right Tilt	Ant2	86.0	0.0672	0.00881	1.199	1.163	0.012	-
5 610	122	802.11ac	80	MCS0	14.0	13.28		Left Cheek	Ant1	86.0	0.296		1.180	1.163		-
5 610	122	802.11ac	80	MCS0	14.0	13.28		Left Tilt	Ant1	86.0	0.132		1.180	1.163		-
5 610	122	802.11ac	80	MCS0	14.0	13.28	0.16	Right Cheek	Ant1	86.0	0.596	0.175	1.180	1.163	0.240	-
5 610	122	802.11ac	80	MCS0	14.0	13.28		Right Tilt	Ant1	86.0	0.195		1.180	1.163		-
5 610	122	802.11ac	80	MCS0	14.0	13.46		Left Cheek	Ant2	86.0	0.0402		1.132	1.163		-
5 610	122	802.11ac	80	MCS0	14.0	13.46		Left Tilt	Ant2	86.0	0.091		1.132	1.163		-
5 610	122	802.11ac	80	MCS0	14.0	13.46		Right Cheek	Ant2	86.0	0		1.132	1.163		-
5 610	122	802.11ac	80	MCS0	14.0	13.46	0.12	Right Tilt	Ant2	86.0	0.111	0.011	1.132	1.163	0.014	-
5 775	155	802.11ac	80	MCS0	14.0	12.77		Left Cheek	Ant1	86.0	0.133		1.327	1.163		-
5 775	155	802.11ac	80	MCS0	14.0	12.77		Left Tilt	Ant1	86.0	0.0191		1.327	1.163		-
5 775	155	802.11ac	80	MCS0	14.0	12.77	-0.10	Right Cheek	Ant1	86.0	0.333	0.084	1.327	1.163	0.130	-
5 775	155	802.11ac	80	MCS0	14.0	12.77		Right Tilt	Ant1	86.0	0.123		1.327	1.163		-
5 775	155	802.11ac	80	MCS0	14.0	13.31		Left Cheek	Ant2	86.0	0		1.172	1.163		-
5 775	155	802.11ac	80	MCS0	14.0	13.31	0.01	Left Tilt	Ant2	86.0	0.0656	0.017	1.172	1.163	0.023	-
5 775	155	802.11ac	80	MCS0	14.0	13.31		Right Cheek	Ant2	86.0	0.0228		1.172	1.163		-
5 775	155	802.11ac	80	MCS0	14.0	13.31		Right Tilt	Ant2	86.0	0.103		1.172	1.163		-
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 – mmWave/ RSDB, RCV-ON

Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant Config.	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.															
5 290	58	802.11ac	80	MCS0	17.0	16.13	0.08	Left Cheek	MIMO	86.0	0.276	0.113	1.222	1.163	0.161	-
5 290	58	802.11ac	80	MCS0	17.0	16.13		Left Tilt	MIMO	86.0	0.347		1.222	1.163		-
5 290	58	802.11ac	80	MCS0	17.0	16.13	-0.12	Right Cheek	MIMO	86.0	0.944	0.320	1.222	1.163	0.455	37
5 290	58	802.11ac	80	MCS0	17.0	16.13		Right Tilt	MIMO	86.0	0.266		1.222	1.163		-
5 610	122	802.11ac	80	MCS0	17.0	16.38		Left Cheek	MIMO	86.0	0.268		1.153	1.163		-
5 610	122	802.11ac	80	MCS0	17.0	16.38		Left Tilt	MIMO	86.0	0.223		1.153	1.163		-
5 610	122	802.11ac	80	MCS0	17.0	16.38	0.17	Right Cheek	MIMO	86.0	0.477	0.144	1.153	1.163	0.193	-
5 610	122	802.11ac	80	MCS0	17.0	16.38		Right Tilt	MIMO	86.0	0.226		1.153	1.163		-
5 775	155	802.11ac	80	MCS0	17.0	16.06		Left Cheek	MIMO	86.0	0.218		1.242	1.163		-
5 775	155	802.11ac	80	MCS0	17.0	16.06		Left Tilt	MIMO	86.0	0.0808		1.242	1.163		-
5 775	155	802.11ac	80	MCS0	17.0	16.06	0.12	Right Cheek	MIMO	86.0	0.428	0.079	1.242	1.163	0.114	-
5 775	155	802.11ac	80	MCS0	17.0	16.06		Right Tilt	MIMO	86.0	0.0442		1.242	1.163		-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

- * Head condition during simultaneous conditions with 2.4GHz WLAN
- * Head condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN

DSS Head SAR

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.										
2 402	0	Bluetooth DH5	15.0	14.98	-0.14	Left Cheek	0.351	1.005	1.302	0.459	38
2 402	0	Bluetooth DH5	15.0	14.98	0.17	Left Tilt	0.065	1.005	1.302	0.085	-
2 402	0	Bluetooth DH5	15.0	14.98	0.16	Right Cheek	0.343	1.005	1.302	0.449	
2 402	0	Bluetooth DH5	15.0	14.98	0.19	Right Tilt	0.076	1.005	1.302	0.099	-
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 (DSI = 0)

CDMA/GSM/ UMTS Body-Worn SAR- Ant. A														
Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
820	560	CDMA BC10	TDSO RC32/SO55	25.8	24.78	0.10	Rear	1:1	01	15	0.268	1.265	0.339	39
820	560	CDMA BC10	TDSO RC32/SO55	25.8	24.78	-0.01	Front	1:1	01	15	0.248	1.265	0.314	-
820	560	CDMA BC10	EVDO Rev.A	25.8	24.54	0.05	Rear	1:1	01	15	0.252	1.337	0.337	-
820	560	CDMA BC10	EVDO Rev.A	25.8	24.54	0.01	Front	1:1	01	15	0.225	1.337	0.301	-
836.52	384	CDMA BC0	TDSO RC32/SO55	25.8	24.39	0.07	Rear	1:1	01	15	0.313	1.384	0.433	40
836.52	384	CDMA BC0	TDSO RC32/SO55	25.8	24.39	0.07	Front	1:1	01	15	0.271	1.384	0.375	-
836.52	384	CDMA BC0	EVDO Rev. A	25.8	24.42	0.03	Rear	1:1	01	15	0.297	1.374	0.408	-
836.52	384	CDMA BC0	EVDO Rev. A	25.8	24.42	-0.01	Front	1:1	01	15	0.244	1.374	0.335	-
1851.25	25	PCS CDMA	TDSO RC32/SO55	24.5	23.88	0.03	Rear	1:1	20	15	0.930	1.153	1.072	41
1880.0	600	PCS CDMA	TDSO RC32/SO55	24.5	24.07	0.16	Rear	1:1	20	15	0.881	1.104	0.973	-
1908.75	1175	PCS CDMA	TDSO RC32/SO55	24.5	23.73	0.01	Rear	1:1	20	15	0.756	1.194	0.903	-
1880.0	600	PCS CDMA	TDSO RC32/SO55	24.5	24.07	0.04	Front	1:1	20	15	0.706	1.104	0.779	-
1851.25	25	PCS CDMA	EVDO Rev. A	24.5	23.77	0.06	Rear	1:1	20	15	0.879	1.183	1.040	-
1880.0	600	PCS CDMA	EVDO Rev. A	24.5	23.98	-0.01	Rear	1:1	20	15	0.862	1.127	0.971	-
1908.75	1175	PCS CDMA	EVDO Rev. A	24.5	23.64	0.05	Rear	1:1	20	15	0.689	1.219	0.840	-
1880.0	600	PCS CDMA	EVDO Rev. A	24.5	23.98	0.06	Front	1:1	20	15	0.650	1.127	0.733	-
1851.25	25	PCS CDMA	TDSO RC32/SO55	24.5	23.88	-0.01	Rear	1:1	20	15	0.920	1.153	1.061	*
836.6	190	GSM 850 Voice		33.5	32.77	0.04	Rear	1:8.3	0	15	0.209	1.183	0.247	-
836.6	190	GSM 850 Voice		33.5	32.77	0.09	Front	1:8.3	0	15	0.194	1.183	0.230	-
836.6	190	GSM 850 GPRS 2Tx		32.0	31.87	-0.12	Rear	1:4.15	0	15	0.325	1.030	0.335	42
836.6	190	GSM 850 GPRS 2Tx		32.0	31.87	0.01	Front	1:4.15	0	15	0.310	1.030	0.319	-
1 880	661	GSM 1900 Voice		30.0	28.85	0.08	Rear	1:8.3	0	15	0.385	1.303	0.502	-
1 880	661	GSM 1900 Voice		30.0	28.85	0.13	Front	1:8.3	0	15	0.320	1.303	0.417	-
1 880	661	GSM 1900 GPRS 3Tx		27.5	26.18	-0.05	Rear	1:2.77	0	15	0.525	1.355	0.711	43
1 880	661	GSM 1900 GPRS 3Tx		27.5	26.18	-0.11	Front	1:2.77	0	15	0.397	1.355	0.538	-
836.6	4183	UMTS 850	RMC	25.5	24.76	0.07	Rear	1:1	02	15	0.303	1.186	0.359	44
836.6	4183	UMTS 850	RMC	25.5	24.76	-0.01	Front	1:1	02	15	0.300	1.186	0.356	-
1712.4	1312	UMTS 1700	RMC	24.5	23.94	0.10	Rear	1:1	01	15	0.846	1.138	0.962	-
1 732.4	1412	UMTS 1700	RMC	24.5	24.48	0.18	Rear	1:1	01	15	0.885	1.005	0.889	-
1752.6	1513	UMTS 1700	RMC	24.5	23.91	0.16	Rear	1:1	01	15	0.900	1.146	1.031	45
1712.4	1312	UMTS 1700	RMC	24.5	23.94	0.11	Front	1:1	01	15	0.823	1.138	0.936	-
1 732.4	1412	UMTS 1700	RMC	24.5	24.48	0.01	Front	1:1	01	15	0.873	1.005	0.877	-
1752.6	1513	UMTS 1700	RMC	24.5	23.91	0.13	Front	1:1	01	15	0.879	1.146	1.007	-
1752.6	1513	UMTS 1700	RMC	24.5	23.91	0.02	Rear	1:1	01	15	0.890	1.146	1.020	*

ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram
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Note: * Data entry indicate Variability measurement.

CDMA/GSM/ UMTS Body-Worn SAR- Ant. A														
Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1852.4	9262	UMTS 1900	RMC	24.5	23.99	0.11	Rear	1:1	14	15	0.962	1.125	1.082	46
1 880.0	9400	UMTS 1900	RMC	24.5	24.18	0.14	Rear	1:1	14	15	0.879	1.076	0.946	-
1907.6	9538	UMTS 1900	RMC	24.5	23.88	-0.16	Rear	1:1	14	15	0.783	1.153	0.903	-
1852.4	9262	UMTS 1900	RMC	24.5	23.99	0.14	Front	1:1	14	15	0.830	1.125	0.933	-
1 880.0	9400	UMTS 1900	RMC	24.5	24.18	0.10	Front	1:1	14	15	0.814	1.076	0.876	-
1907.6	9538	UMTS 1900	RMC	24.5	23.88	0.19	Front	1:1	14	15	0.675	1.153	0.779	-
1852.4	9262	UMTS 1900	RMC	24.5	23.99	0.19	Rear	1:1	14	15	0.959	1.125	1.078	*
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 Body-Worn SAR- Ant. A, - Ant. B																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 510	20850	LTE 7 QPSK	20	24.0	23.25	-0.03	Rear	0	1	99	1:1		15	0.363	1.189	0.432	47
2 510	20850		20	23.0	22.36	-0.17	Rear	1	50	49	1:1		15	0.289	1.159	0.335	-
2 510	20850		20	24.0	23.25	0.18	Front	0	1	99	1:1		15	0.320	1.189	0.380	-
2 510	20850		20	23.0	22.36	0.15	Front	1	50	49	1:1		15	0.257	1.159	0.298	-
707.5	23095	LTE 12 QPSK	10	25.8	24.92	-0.03	Rear	0	1	0	1:1	54	15	0.241	1.225	0.295	-
707.5	23095		10	24.8	23.98	0.01	Rear	1	25	0	1:1	54	15	0.197	1.208	0.238	-
707.5	23095		10	25.8	24.92	-0.04	Front	0	1	0	1:1	54	15	0.245	1.225	0.300	48
707.5	23095		10	24.8	23.98	0.02	Front	1	25	0	1:1	54	15	0.198	1.208	0.239	-
782	23230	LTE 13 QPSK	10	25.8	24.21	-0.14	Rear	0	1	0	1:1	55	15	0.273	1.442	0.394	49
782	23230		10	24.8	23.26	-0.06	Rear	1	25	0	1:1	55	15	0.251	1.426	0.358	-
782	23230		10	25.8	24.21	-0.19	Front	0	1	0	1:1	55	15	0.250	1.442	0.361	-
782	23230		10	24.8	23.26	0.06	Front	1	25	0	1:1	55	15	0.223	1.426	0.318	-
793	23330	LTE 14 QPSK	10	25.8	24.42	0.03	Rear	0	1	0	1:1	54	15	0.335	1.374	0.460	50
793	23330		10	24.8	23.47	-0.18	Rear	1	25	0	1:1	54	15	0.322	1.358	0.437	-
793	23330		10	25.8	24.42	-0.03	Front	0	1	0	1:1	54	15	0.276	1.374	0.379	-
793	23330		10	24.8	23.47	-0.03	Front	1	25	0	1:1	54	15	0.217	1.358	0.295	-
1 882.5	26365	LTE 25 QPSK	20	24.5	23.65	-0.03	Rear	0	1	0	1:1	14	15	0.550	1.216	0.669	51
1 882.5	26365		20	23.5	22.77	0.01	Rear	0	50	0	1:1	14	15	0.450	1.183	0.532	-
1 882.5	26365		20	24.5	23.65	-0.02	Front	1	1	0	1:1	14	15	0.430	1.216	0.523	-
1 882.5	26365		20	23.5	22.77	-0.02	Front	1	50	0	1:1	14	15	0.343	1.183	0.406	-
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 SAR - Ant. A, Ant. B Ant. G																		
Frequency		Mode	Band width	Tune-up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																	(Mhz)
831.5	26865	LTE 26 QPSK	15	25.8	24.52	-0.18	Rear	0	1	0	1:1	04	15	0.314	1.343	0.422		
831.5	26865		15	24.8	23.52	-0.03	Rear	1	36	0	1:1	04	15	0.242	1.343	0.325	-	
831.5	26865		15	25.8	24.52	-0.01	Front	0	1	0	1:1	04	15	0.249	1.343	0.334	-	
831.5	26865		15	24.8	23.52	-0.01	Front	1	36	0	1:1	04	15	0.187	1.343	0.251	-	
LTE Band 5 Up-link Carrier Aggregation																		
PCC	20476	LTE 5 QPSK	10	25.8	24.42	-0.05	Rear	0	1	49	1:1	04	15	0.322	1.374	0.442	52	
SCC	20575		1						0									
2 310	27710	LTE 30 QPSK	10	24.2	23.51	0.19	Rear	0	1	0	1:1		15	0.498	1.172	0.584	-	
2 310	27710		10	23.2	22.60	0.10	Rear	1	25	0	1:1		15	0.414	1.148	0.475	-	
2 310	27710		10	24.2	23.51	0.18	Front	0	1	0	1:1		15	0.530	1.172	0.621	53	
2 310	27710		10	23.2	22.60	0.09	Front	1	25	0	1:1		15	0.461	1.148	0.529	-	
2 310	38750	LTE 40 QPSK (Low)	10	14.0	13.18	0.13	Rear	0	1	24	1:1.58		15	0.043	1.208	0.052	54	
2 310	38750		10	14.0	12.25	0.14	Rear	0	25	12	1:1.58		15	0.035	1.496	0.052	-	
2 310	38750		10	14.0	13.18	0.05	Front	0	1	24	1:1.58		15	0.033	1.208	0.040	-	
2 310	38750		10	14.0	12.25	0.10	Front	0	25	12	1:1.58		15	0.027	1.496	0.040	-	
2 535	39200	LTE 40 QPSK (Upper)	10	14.0	13.13	0.10	Rear	0	1	24	1:1.58		15	0.045	1.222	0.055	55	
2 535	39200		10	14.0	12.20	0.00	Rear	0	25	12	1:1.58		15	0.035	1.514	0.053	-	
2 535	39200		10	14.0	13.13	-0.16	Front	0	1	24	1:1.58		15	0.037	1.222	0.045	-	
2 535	39200		10	14.0	12.20	0.00	Front	0	25	12	1:1.58		15	0.028	1.514	0.042	-	
2 680.0	41490	LTE 41 QPSK	20	25.0	23.99	0.11	Rear	0	1	0	1:1.58		15	0.243	1.262	0.307	-	
2 680.0	41490		20	24.0	23.06	0.13	Rear	1	50	0	1:1.58		15	0.212	1.242	0.263	-	
2 680.0	41490		20	25.0	23.99	0.12	Front	0	1	0	1:1.58		15	0.298	1.262	0.376	-	
2 680.0	41490		20	24.0	23.06	0.15	Front	1	50	0	1:1.58		15	0.239	1.242	0.297	-	
Power class 2 (HPUE)																		
2 680.0	41490	LTE 41 QPSK	20	27.3	26.20	0.13	Front	0	1	0	1:2.31		15	0.349	1.288	0.450	56	
Up-link Carrier Aggregation Power class 3 (41C)																		
2680	41490	QPSK	PCC	20	25.0	24.28	-0.13	Front	0	1	0	1:1.58		15	0.314	1.180	0.371	-
2660.2	41292	QPSK	SCC	20						1	99							
Up-link Carrier Aggregation Power class 2 (HPUE) (41C)																		
2680	41490	QPSK	PCC	20	27.3	26.83	0.01	Front	0	1	99	1:2.31		15	0.320	1.114	0.356	-
2660.2	41292	QPSK	SCC	20						1	0							
3 690	56640	LTE 48 QPSK	20	24.5	23.63	-0.18	Rear	0	1	0	1:1.58		15	0.122	1.222	0.149	-	
3 690	56640		20	23.5	22.60	0.12	Rear	1	50	0	1:1.58		15	0.082	1.230	0.101	-	
3 690	56640		20	24.5	23.63	-0.10	Front	0	1	0	1:1.58		15	0.106	1.222	0.130	-	
3 690	56640		20	23.5	22.60	0.17	Front	1	50	0	1:1.58		15	0.085	1.230	0.105	-	
Up-link Carrier Aggregation (48C)																		
3 690	56640	QPSK	PCC	20	24.5	23.76	-0.12	Rear	0	1	0	1:1.58		15	0.135	1.186	0.160	57
3670.2	56442	QPSK	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									

LTE Body-Worn SAR - Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.	
Mhz	Ch.																	
1 720	132072	LTE 66 QPSK	20	24.5	23.53	0.09	Rear	0	1	49	1:1	01	15	0.842	1.250	1.053	58	
1 745	132322		20	24.5	23.75	0.06	Rear	0	1	0	1:1	01	15	0.756	1.189	0.899	-	
1 770	132572		20	24.5	23.62	0.08	Rear	0	1	0	1:1	01	15	0.695	1.225	0.851	-	
1 745	132322		20	23.5	22.82	0.06	Rear	1	50	0	1:1	01	15	0.640	1.169	0.748	-	
1 745	132322		20	23.5	22.71	0.02	Rear	0	100	0	1:1	01	15	0.632	1.199	0.758	-	
1 720	132072		20	24.5	23.53	-0.01	Front	0	1	49	1:1	01	15	0.707	1.250	0.884	-	
1 745	132322		20	24.5	23.75	-0.13	Front	0	1	0	1:1	01	15	0.683	1.189	0.812	-	
1 770	132572		20	24.5	23.62	0.07	Front	0	1	0	1:1	01	15	0.596	1.225	0.730	-	
1 745	132322		20	23.5	22.82	-0.01	Front	1	50	0	1:1	01	15	0.579	1.169	0.677	-	
1 745	132322		20	23.5	22.71	0.03	Front	1	100	0	1:1	01	15	0.563	1.199	0.675	-	
1 720	132072		20	24.5	23.53	0.14	Rear	0	1	49	1:1	01	15	0.833	1.250	1.041	*	
Up-link Carrier Aggregation (66B)																		
1 720	132072		QPSK	PCC	10	24.5	23.98	0.08	Front	0	1	49	1:1	01	15	0.669	1.127	0.754
1729.9	132171	QPSK	SCC	20	0					1	0							
Up-link Carrier Aggregation (66C)																		
1 745	132322	QPSK	PCC	20	24.5	24.17	-0.00	Front	0	1	99	1:1	01	15	0.656	1.079	0.708	-
1739.8	132270	QPSK	SCC	20					0	1	0							
680.5	133297	LTE 71 QPSK		20	25.8	24.92	-0.06	Rear	0	1	0	1:1	54	15	0.228	1.225	0.279	59
680.5	133297			20	24.8	23.95	-0.00	Rear	1	50	0	1:1	54	15	0.187	1.216	0.227	-
680.5	133297			20	25.8	24.92	-0.03	Front	0	1	0	1:1	54	15	0.188	1.225	0.230	-
680.5	133297			20	24.8	23.95	-0.13	Front	1	50	0	1:1	54	15	0.157	1.216	0.191	-
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.

NR Body-Worn SAR- Ant. A, - Ant. B, - Ant. F																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.																
836.5	167300	NR n5 DFT-s OFDM QPSK	20	25.8	24.75	0.01	Rear	0	1	53	1:1	0	15	0.214	1.274	0.273	-
836.5	167300		20	25.8	24.82	0.01	Rear	0	50	28	1:1	0	15	0.232	1.253	0.291	-
836.5	167300		20	25.8	24.75	0.01	Front	0	1	53	1:1	0	15	0.236	1.274	0.301	-
836.5	167300		20	25.8	24.82	-0.02	Front	0	50	28	1:1	0	15	0.243	1.253	0.304	60
836.5	167300	NR n5 CP QPSK	20	24.3	23.32	-0.03	Rear	1.5	1	1	1:1	0	15	0.121	1.253	0.152	-
707.5	141500	NR n12 DFT-s OFDM QPSK	15	25.5	24.78	-0.04	Rear	0	1	1	1:1	0	15	0.212	1.180	0.250	-
707.5	141500		15	25.5	24.70	0.01	Rear	0	36	22	1:1	0	15	0.216	1.202	0.260	-
707.5	141500		15	25.5	24.78	0.09	Front	0	1	1	1:1	0	15	0.183	1.180	0.216	-
707.5	141500		15	25.5	24.70	-0.01	Front	0	36	22	1:1	0	15	0.199	1.202	0.239	-
707.5	141500	NR n12 CP QPSK	15	24.0	23.48	0.00	Rear	1.5	1	1	1:1	0	15	0.243	1.127	0.274	61
1 882.5	376500	NR n25 DFT-s OFDM QPSK	40	24.5	23.83	-0.18	Rear	0	1	1	1:1	0	15	0.566	1.167	0.661	-
1 882.5	376500		40	24.5	23.51	-0.10	Rear	0	50	28	1:1	0	15	0.596	1.256	0.749	62
1 882.5	376500		40	24.5	23.83	-0.11	Front	0	1	1	1:1	0	15	0.540	1.167	0.630	-
1 882.5	376500		40	24.5	23.51	-0.11	Front	0	50	28	1:1	0	15	0.532	1.256	0.668	-
1 882.5	376500	NR n25 CP QPSK	40	23.0	22.48	0.02	Rear	1.5	1	1	1:1	0	15	0.475	1.127	0.535	-
2 310	462000	NR n30 DFT-s OFDM QPSK	10	24.0	23.55	-0.10	Rear	0	1	26	1:1		15	0.258	1.109	0.286	-
2 310	462000		10	24.0	23.70	0.14	Rear	0	25	14	1:1		15	0.329	1.072	0.353	-
2 310	462000		10	24.0	23.55	-0.10	Front	0	1	26	1:1		15	0.389	1.109	0.431	63
2 310	462000		10	24.0	23.70	-0.19	Front	0	25	14	1:1		15	0.329	1.072	0.353	-
2 310	462000	NR n30 CP QPSK	10	22.5	21.98	-0.09	Front	1.5	1	1	1:1		15	0.271	1.127	0.305	-
2 592.99	518598	(Ant B) NR n41(PC3) DFT-s OFDM QPSK	100	25.5	25.00	0.14	Rear	0	1	1	1:1		15	0.113	1.122	0.127	-
2 592.99	518598		100	25.5	25.02	-0.12	Rear	0	135	69	1:1		15	0.106	1.117	0.118	-
2 592.99	518598		100	25.5	25.00	0.17	Front	0	1	1	1:1		15	0.169	1.122	0.190	64
2 592.99	518598		100	25.5	25.02	-0.13	Front	0	135	69	1:1		15	0.109	1.117	0.122	-
2 592.99	518598	NR n41CP QPSK	100	24.0	23.68	-0.15	Rear	1.5	1	1	1:1		15	0.062	1.076	0.067	-
2 592.99	518598	(Ant F) NR n41 DFT-s OFDM QPSK	100	25.5	24.74	0.17	Rear	0	1	1	1:1		15	0.030	1.191	0.036	-
2 592.99	518598		100	25.5	24.92	0.19	Rear	0	135	69	1:1		15	0.071	1.117	0.081	65
2 592.99	518598		100	25.5	24.74	0.14	Front	0	1	1	1:1		15	0.025	1.191	0.030	-
2 592.99	518598		100	25.5	24.92	0.13	Front	0	135	69	1:1		15	0.028	1.143	0.032	-
2 592.99	518598	NR n41CP QPSK	100	24.0	23.41	0.10	Rear	1.5	1	1	1:1		15	0.038	1.146	0.044	-
2 592.99	518598	(Ant F) NR n41 DFT-s OFDM QPSK	100	26.5	26.21	0.15	Rear	0	1	1	1:1		15	0.041	1.069	0.044	-
2 592.99	518598		100	26.5	26.21	0.15	Rear	0	135	69	1:1		15	0.044	1.069	0.047	66
2 592.99	518598		100	26.5	26.21	0.15	Front	0	1	1	1:1		15	0.023	1.069	0.025	-
2 592.99	518598		100	26.5	26.21	0.18	Front	0	135	69	1:1		15	0.035	1.069	0.037	-
2 592.99	518598	NR n41CP QPSK	100	25.0	24.91	0.10	Rear	1.5	1	1	1:1		15	0.038	1.021	0.039	-
ANSI/ IEEE C95.1 –2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram										

NR Body-Worn SAR- Ant. A, - Ant. G																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)	n	(dB)					(mm)	(W/kg)		(W/kg)	
1745	349000	NR n66 DFT-s OFDM QPSK	40	24.5	24.27	-0.04	Rear	0	1	1	1:1	01	15	0.900	1.054	0.949	67
1745	349000		40	24.5	24.05	-0.01	Rear	0	108	54	1:1	01	15	0.871	1.109	0.966	68
1745	349000		40	24.5	24.27	-0.07	Front	0	1	1	1:1	01	15	0.653	1.054	0.688	-
1745	349000		40	24.5	24.05	0.05	Front	0	108	54	1:1	01	15	0.700	1.109	0.776	-
1745	349000	NR n66CP QPSK	40	24.5	22.98	-0.08	Rear	1.5	1	1	1:1	01	15	0.610	1.419	0.866	-
1745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.01	Rear	0	1	1	1:1	01	15	0.890	1.054	0.938	*
680.5	136100	NR n71 DFT-s OFDM QPSK	20	25.8	24.16	0.00	Rear	0	1	1	1:1	54	15	0.151	1.459	0.220	-
680.5	136100		20	25.8	24.18	-0.01	Rear	0	50	28	1:1	54	15	0.178	1.452	0.258	69
680.5	136100		20	25.8	24.16	-0.12	Front	0	1	1	1:1	54	15	0.134	1.459	0.196	-
680.5	136100		20	25.8	24.18	-0.01	Front	0	50	28	1:1	54	15	0.145	1.452	0.211	-
680.5	136100	NR n71 CP QPSK	20	24.3	24.28	-0.01	Rear	1.5	1	1	1:1	54	15	0.179	1.005	0.180	-
3840	656000	NR n77 DFT-s OFDM QPSK (PC3)	100	25.0	24.43	-0.10	Rear	0	1	271	1:1		15	0.056	1.140	0.016	-
3930	662000		100	25.0	24.13	0.13	Rear	0	135	69	1:1		15	0.059	1.222	0.018	-
3840	656000		100	25.0	24.43	-0.04	Front	0	1	271	1:1		15	0.044	1.140	0.050	70
3930	662000		100	25.0	24.13	-0.19	Front	0	135	69	1:1		15	0.115	1.222	0.035	-
3930	662000	NR n77 CP QPSK	100	23.5	23.00	-0.15	Rear	1.5	1	1	1:1		15	0.071	1.122	0.020	-
3840	656000	NR n77 DFT-s OFDM QPSK (PC2)	100	26.5	25.87	-0.12	Rear	0	1	271	1:1		15	0.128	1.156	0.037	-
3930	662000		100	26.5	25.56	0.13	Rear	0	135	69	1:1		15	0.120	1.242	0.037	-
3840	656000		100	26.5	25.87	-0.18	Front	0	1	271	1:1		15	0.215	1.156	0.062	-
3930	662000		100	26.5	25.56	-0.05	Front	0	135	69	1:1		15	0.074	1.242	0.092	71
3930	662000	NR n77 CP QPSK	100	25.0	24.41	-0.09	Rear	1.5	1	1	1:1		15	0.136	1.146	0.039	-
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.

DTS Body-Worn SAR																	
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(Mbps)	(dBm)	(dBm)	(dB)					(mm)	(W/kg)	(W/kg)		(Duty)	(W/kg)
2437	6	802.11b	20	1	21.0	20.00	0.07	Rear	Ant1	98.8	15	0.195	0.120	1.259	1.012	0.153	-
2437	6	802.11b	20	1	21.0	20.00		Front	Ant1	98.8	15	0.182		1.259	1.012		-
2462	11	802.11b	20	1	21.0	20.31	-0.07	Rear	Ant2	98.8	15	0.350	0.198	1.172	1.012	0.235	72
2462	11	802.11b	20	1	21.0	20.31		Front	Ant2	98.8	15	0.00605		1.172	1.012		-
2437	6	802.11g	20	6	21.0	19.91	-0.14	Rear	MIMO	93.4	15	0.238	0.145	1.285	1.071	0.200	-
2437	6	802.11g	20	6	21.0	19.91		Front	MIMO	93.4	15	0.143		1.285	1.071		-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (DTS) Body-Worn SAR 1g –mmWave/RSDB

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config	Sensor	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.																	
2 412	1	802.11b	20	1	17	16.58	0.10	Rear	Ant1	Active	98.8	15	0.198	0.084	1.102	1.012	0.094	-
2 412	1	802.11b	20	1	17	16.58		Front	Ant1	Active	98.8	15	0.202		1.102	1.012		-
2 462	11	802.11b	20	1	17	16.94	0.13	Rear	Ant2	Active	98.8	15	0.165	0.104	1.014	1.012	0.107	73
2 462	11	802.11b	20	1	17	16.94		Front	Ant2	Active	98.8	15	0.00273		1.014	1.012		-

Wi-Fi (DTS) Body-Worn SAR 1g – mmWave/RSDB

Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config	Sensor	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.																	
2 437	6	802.11g	20	1	20	19.81	0.10	Rear	MIMO	Active	93.4	15	0.165	0.098	1.045	1.071	0.110	74
2 437	6	802.11g	20	1	20	19.81		Front	MIMO	Active	93.4	15	0.140		1.045	1.071		-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram						

* Reduction condition during simultaneous conditions with 5 GHz WLAN

* Reduction condition during simultaneous conditions with mmWave and/or 5 GHz WLAN

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.																
5 300	60	802.11a	20	6	18.0	17.25	0.19	Rear	Ant1	93.7	15	0.155	0.058	1.189	1.067	0.074	-
5 300	60	802.11a	20	6	18.0	17.25	0.19	Front	Ant1	93.7	15	0.223	0.096	1.189	1.067	0.122	-
5 720	144	802.11a	20	6	18.0	17.68	0.01	Rear	Ant1	93.7	15	0.0747	0.024	1.076	1.067	0.028	-
5 720	144	802.11a	20	6	18.0	17.68	0.19	Front	Ant1	93.7	15	0.159	0.052	1.076	1.067	0.060	-
5 745	149	802.11a	20	6	18.0	17.71	0.01	Rear	Ant1	93.7	15	0.0569	0.013	1.069	1.067	0.015	-
5 745	149	802.11a	20	6	18.0	17.71	0.19	Front	Ant1	93.7	15	0.0876	0.032	1.069	1.067	0.036	-
5 320	64	802.11a	20	6	18.0	16.80	0.01	Rear	Ant2	93.7	15	0.413	0.175	1.318	1.067	0.246	-
5 320	64	802.11a	20	6	18.0	16.80	0.01	Front	Ant2	93.7	15	0.0148	0.00431	1.318	1.067	0.006	-
5 720	144	802.11a	20	6	18.0	17.64	-0.12	Rear	Ant2	93.7	15	1.51	0.594	1.086	1.067	0.688	75
5 720	144	802.11a	20	6	18.0	17.64	-0.19	Front	Ant2	93.7	15	0.025	0.0036	1.086	1.067	0.004	-
5 745	149	802.11a	20	6	18.0	17.69	0.18	Rear	Ant2	93.7	15	1.44	0.592	1.074	1.067	0.678	-
5 745	149	802.11a	20	6	18.0	17.69	0.01	Front	Ant2	93.7	15	0.0257	0.00	1.074	1.067	0.000	-
5 320	64	802.11a	20	6	21.0	20.02	0.17	Rear	MIMO	93.7	15	0.488	0.219	1.253	1.067	0.293	-
5 320	64	802.11a	20	6	21.0	20.02	0.16	Front	MIMO	93.7	15	0.221	0.096	1.253	1.067	0.128	-
5 720	144	802.11a	20	6	21.0	20.67	-0.10	Rear	MIMO	93.7	15	1.17	0.501	1.079	1.067	0.577	-
5 720	144	802.11a	20	6	21.0	20.67	0.02	Front	MIMO	93.7	15	0.14	0.056	1.079	1.067	0.064	-
5 745	149	802.11a	20	6	21.0	20.71	0.09	Rear	MIMO	93.7	15	1.11	0.478	1.069	1.067	0.545	-
5 745	149	802.11a	20	6	21.0	20.71	0.10	Front	MIMO	93.7	15	0.123	0.047	1.069	1.067	0.054	-
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 1g with mmWave - RSDB

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.																
5290	58	802.11ac	80	MCS0	14	13.41	0.00	Rear	Ant1	86.0	15	0.122	0.011	1.146	1.163	0.015	-
5290	58	802.11ac	80	MCS0	14	13.41		Front	Ant1	86.0	15	0.068		1.146	1.163		-
5 610	122	802.11ac	80	MCS0	14	13.28		Rear	Ant1	86.0	15	0.036		1.180	1.163		-
5 610	122	802.11ac	80	MCS0	14	13.28	-0.10	Front	Ant1	86.0	15	0.102	0.00652	1.180	1.163	0.009	-
5775	155	802.11ac	80	MCS0	14	12.77		Rear	Ant1	86.0	15	0		1.327	1.163		-
5775	155	802.11ac	80	MCS0	14	12.77	0.00	Front	Ant1	86.0	15	0.00125	0.0000391	1.327	1.163	0.0001	
5290	58	802.11ac	80	MCS0	14	12.81	0.00	Rear	Ant2	86.0	15	0.168	0.049	1.315	1.163	0.075	-
5290	58	802.11ac	80	MCS0	14	12.81		Front	Ant2	86.0	15	0		1.315	1.163		-
5 610	122	802.11ac	80	MCS0	14	13.46	0.10	Rear	Ant2	86.0	15	0.333	0.135	1.132	1.163	0.178	-
5 610	122	802.11ac	80	MCS0	14	13.46		Front	Ant2	86.0	15	0.0072		1.132	1.163		
5775	155	802.11ac	80	MCS0	14	13.31	0.10	Rear	Ant2	86.0	15	0.345	0.142	1.172	1.163	0.194	76
5775	155	802.11ac	80	MCS0	14	13.31		Front	Ant2	86.0	15	0.00661		1.172	1.163		-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

* Reduction condition during simultaneous conditions with 2.4 GHz WLAN

* Reduction condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN

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.											
2 402	0	Bluetooth DH5	15.0	14.98	-0.13	Rear	15	0.046	1.005	1.302	0.060	-
2 402	0	Bluetooth DH5	15.0	14.98	0.11	Front	15	0.046	1.005	1.302	0.060	77
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(DSI = 3)

CDMA BC10(\$90S)Hotspot SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
820	560	CDMA BC10	EVDO Rev.0	25.8	24.56	0.03	Rear	1:1	01	10	0.561	1.330	0.746	78
820	560	CDMA BC10	EVDO Rev.0	25.8	24.56	-0.03	Front	1:1	01	10	0.325	1.330	0.432	-
820	560	CDMA BC10	EVDO Rev.0	25.8	24.56	0.01	Left	1:1	01	10	0.131	1.330	0.174	-
820	560	CDMA BC10	EVDO Rev.0	25.8	24.56	0.09	Right	1:1	01	10	0.283	1.330	0.376	-
820	560	CDMA BC10	EVDO Rev.0	25.8	24.56	-0.09	Bottom	1:1	01	10	0.284	1.330	0.378	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

CDMA BC0(\$22H)Hotspot SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
824.7	1013	CDMA BC0	EVDO Rev.0	25.8	24.31	0.10	Rear	1:1	01	10	0.652	1.409	0.919	79
836.52	384	CDMA BC0	EVDO Rev.0	25.8	24.40	0.03	Rear	1:1	01	10	0.623	1.380	0.860	-
848.31	777	CDMA BC0	EVDO Rev.0	25.8	24.56	0.10	Rear	1:1	01	10	0.714	1.330	0.950	-
836.52	384	CDMA BC0	EVDO Rev.0	25.8	24.40	-0.03	Front	1:1	01	10	0.400	1.380	0.552	-
836.52	384	CDMA BC0	EVDO Rev.0	25.8	24.40	-0.02	Left	1:1	01	10	0.121	1.380	0.167	-
836.52	384	CDMA BC0	EVDO Rev.0	25.8	24.40	-0.10	Right	1:1	01	10	0.316	1.380	0.436	-
836.52	384	CDMA BC0	EVDO Rev.0	25.8	24.40	-0.10	Bottom	1:1	01	10	0.330	1.380	0.455	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

PCS CDMA Hotspot SAR- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 880	600	PCS CDMA	EVDO Rev.0	19.5	18.98	0.13	Rear	1:1	20	10	0.564	1.127	0.636	-
1 880	600	PCS CDMA	EVDO Rev.0	19.5	18.98	0.07	Front	1:1	20	10	0.435	1.127	0.490	-
1 880	600	PCS CDMA	EVDO Rev.0	19.5	18.98	-0.04	Left	1:1	20	10	0.307	1.127	0.346	-
1 880	600	PCS CDMA	EVDO Rev.0	19.5	18.98	-0.04	Right	1:1	20	10	0.253	1.127	0.285	-
1851.25	25	PCS CDMA	EVDO Rev.0	19.5	18.88	0.11	Bottom	1:1	20	10	0.946	1.153	1.091	80
1880	600	PCS CDMA	EVDO Rev.0	19.5	18.98	0.10	Bottom	1:1	20	10	0.925	1.127	1.042	-
1908.75	1175	PCS CDMA	EVDO Rev.0	19.5	18.64	0.17	Bottom	1:1	20	10	0.854	1.219	1.041	-
1851.25	25	PCS CDMA	EVDO Rev.0	19.5	18.88	0.11	Bottom	1:1	20	10	0.904	1.153	1.042	*
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.

GSM 850 Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GPRS 2Tx	32.0	31.87	0.18	Rear	1:4.15	10	0	0.771	1.030	0.794	81
836.6	190	GPRS 2Tx	32.0	31.87	-0.14	Front	1:4.15	10	0	0.526	1.030	0.542	-
836.6	190	GPRS 2Tx	32.0	31.87	0.11	Left	1:4.15	10	0	0.157	1.030	0.162	-
836.6	190	GPRS 2Tx	32.0	31.87	-0.04	Right	1:4.15	10	0	0.429	1.030	0.442	-
836.6	190	GPRS 2Tx	32.0	31.87	0.05	Bottom	1:4.15	10	0	0.429	1.030	0.442	-
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- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880	661	GPRS 4Tx	21.5	19.91	-0.12	Rear	1:2.075	10	0	0.263	1.442	0.379	-
1 880	661	GPRS 4Tx	21.5	19.91	0.09	Front	1:2.075	10	0	0.240	1.442	0.346	-
1 880	661	GPRS 4Tx	21.5	19.91	-0.04	Left	1:2.075	10	0	0.056	1.442	0.081	-
1 880	661	GPRS 4Tx	21.5	19.91	0.15	Right	1:2.075	10	0	0.052	1.442	0.075	-
1 880	661	GPRS 4Tx	21.5	19.91	0.14	Bottom	1:2.075	10	0	0.523	1.442	0.754	82
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

UMTS 850 Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)								
836.6	4183	RMC	25.5	24.76	0.06	Rear	1:1	02	10	0.612	1.186	0.726	83
836.6	4183	RMC	25.5	24.76	0.01	Front	1:1	02	10	0.482	1.186	0.572	-
836.6	4183	RMC	25.5	24.76	-0.07	Left	1:1	02	10	0.178	1.186	0.211	-
836.6	4183	RMC	25.5	24.76	-0.03	Right	1:1	02	10	0.397	1.186	0.471	-
836.6	4183	RMC	25.5	24.76	-0.01	Bottom	1:1	02	10	0.387	1.186	0.459	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

UMTS1700Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)								
1 732.4	1412	RMC	19.5	19.44	0.17	Rear	1:1	01	10	0.519	1.014	0.526	-
1 732.4	1412	RMC	19.5	19.44	0.05	Front	1:1	01	10	0.550	1.014	0.558	-
1 732.4	1412	RMC	19.5	19.44	0.15	Left	1:1	01	10	0.085	1.014	0.086	-
1 732.4	1412	RMC	19.5	19.44	0.10	Right	1:1	01	10	0.062	1.014	0.063	-
1 732.4	1412	RMC	19.5	19.44	0.06	Bottom	1:1	01	10	0.757	1.014	0.768	84
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

UMTS1900Hotspot SAR- Ant. A

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)								
1 880	9400	RMC	19.5	19.12	-0.17	Rear	1:1	14	10	0.393	1.091	0.429	-
1 880	9400	RMC	19.5	19.12	0.15	Front	1:1	14	10	0.430	1.091	0.469	-
1 880	9400	RMC	19.5	19.12	-0.16	Left	1:1	14	10	0.074	1.091	0.081	-
1 880	9400	RMC	19.5	19.12	0.10	Right	1:1	14	10	0.056	1.091	0.061	-
1 852.4	9262	RMC	19.5	18.95	0.09	Bottom	1:1	14	10	0.821	1.135	0.932	-
1 880	9400	RMC	19.5	19.12	0.06	Bottom	1:1	14	10	0.907	1.091	0.990	85
1 907.6	9538	RMC	19.5	18.82	0.10	Bottom	1:1	14	10	0.798	1.169	0.933	-
1 880	9400	RMC	19.5	19.12	0.01	Bottom	1:1	14	10	0.902	1.091	0.984	-
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- Ant. B

Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
2 510	20850	QPSK	20	20.5	19.84	-0.17	Rear	0	1	99	1:1		10	0.367	1.164	0.427	-
2 510	20850	QPSK	20	20.5	19.83	-0.17	Rear	0	50	49	1:1		10	0.381	1.167	0.445	-
2 510	20850	QPSK	20	20.5	19.84	-0.11	Front	0	1	99	1:1		10	0.312	1.164	0.363	-
2 510	20850	QPSK	20	20.5	19.83	-0.15	Front	0	50	49	1:1		10	0.313	1.167	0.365	-
2 510	20850	QPSK	20	20.5	19.84	-0.05	Left	0	1	99	1:1		10	0.169	1.164	0.197	-
2 510	20850	QPSK	20	20.5	19.83	-0.07	Left	0	50	49	1:1		10	0.170	1.167	0.198	-
2 510	20850	QPSK	20	20.5	19.84	0.10	Bottom	0	1	99	1:1		10	0.568	1.164	0.661	-
2 510	20850	QPSK	20	20.5	19.83	0.10	Bottom	0	50	49	1:1		10	0.582	1.167	0.679	86
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- Ant. A

Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
707.5	23095	QPSK	10	25.8	24.92	-0.01	Rear	0	1	0	1:1	54	10	0.447	1.225	0.548	87
707.5	23095	QPSK	10	24.8	23.98	-0.04	Rear	1	25	0	1:1	54	10	0.363	1.208	0.439	-
707.5	23095	QPSK	10	25.8	24.92	0.02	Front	0	1	0	1:1	54	10	0.264	1.225	0.323	-
707.5	23095	QPSK	10	24.8	23.98	0.01	Front	1	25	0	1:1	54	10	0.216	1.208	0.261	-
707.5	23095	QPSK	10	25.8	24.92	-0.07	Left	0	1	0	1:1	54	10	0.179	1.225	0.219	-
707.5	23095	QPSK	10	24.8	23.98	-0.02	Left	1	25	0	1:1	54	10	0.154	1.208	0.186	-
707.5	23095	QPSK	10	25.8	24.92	-0.07	Right	0	1	0	1:1	54	10	0.281	1.225	0.344	-
707.5	23095	QPSK	10	24.8	23.98	0.04	Right	1	25	0	1:1	54	10	0.214	1.208	0.259	-
707.5	23095	QPSK	10	25.8	24.92	-0.13	Bottom	0	1	0	1:1	54	10	0.248	1.225	0.304	-
707.5	23095	QPSK	10	24.8	23.98	-0.14	Bottom	1	25	0	1:1	54	10	0.193	1.208	0.233	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE Band 13 Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
782	23230	QPSK	10	25.8	24.21	-0.07	Rear	0	1	0	1:1	55	10	0.500	1.442	0.721	-
782	23230	QPSK	10	24.8	23.26	-0.17	Rear	1	25	0	1:1	55	10	0.515	1.426	0.734	88
782	23230	QPSK	10	25.8	24.21	-0.10	Front	0	1	0	1:1	55	10	0.350	1.442	0.505	-
782	23230	QPSK	10	24.8	23.26	-0.11	Front	1	25	0	1:1	55	10	0.309	1.426	0.441	-
782	23230	QPSK	10	25.8	24.21	-0.10	Left	0	1	0	1:1	55	10	0.196	1.442	0.283	-
782	23230	QPSK	10	24.8	23.26	-0.05	Left	1	25	0	1:1	55	10	0.154	1.426	0.220	-
782	23230	QPSK	10	25.8	24.21	-0.16	Right	0	1	0	1:1	55	10	0.326	1.442	0.470	-
782	23230	QPSK	10	24.8	23.26	0.01	Right	1	25	0	1:1	55	10	0.309	1.426	0.441	-
782	23230	QPSK	10	25.8	24.21	-0.15	Bottom	0	1	0	1:1	55	10	0.279	1.442	0.402	-
782	23230	QPSK	10	24.8	23.26	-0.12	Bottom	1	25	0	1:1	55	10	0.258	1.426	0.368	-
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- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
793	23330	QPSK	10	25.8	24.42	0.14	Rear	0	1	0	1:1	54	10	0.631	1.374	0.867	89
793	23330	QPSK	10	24.8	23.47	-0.10	Rear	1	25	0	1:1	54	10	0.601	1.358	0.816	-
793	23330	QPSK	10	24.8	23.46	-0.07	Rear	1	50	0	1:1	54	10	0.589	1.361	0.802	-
793	23330	QPSK	10	25.8	24.42	-0.08	Front	0	1	0	1:1	54	10	0.350	1.374	0.481	-
793	23330	QPSK	10	24.8	23.47	-0.01	Front	1	25	0	1:1	54	10	0.280	1.358	0.380	-
793	23330	QPSK	10	25.8	24.42	-0.07	Left	0	1	0	1:1	54	10	0.222	1.374	0.305	-
793	23330	QPSK	10	24.8	23.47	-0.01	Left	1	25	0	1:1	54	10	0.168	1.358	0.228	-
793	23330	QPSK	10	25.8	24.42	-0.02	Right	0	1	0	1:1	54	10	0.335	1.374	0.460	-
793	23330	QPSK	10	24.8	23.47	0.01	Right	1	25	0	1:1	54	10	0.263	1.358	0.357	-
793	23330	QPSK	10	25.8	24.42	-0.15	Bottom	0	1	0	1:1	54	10	0.334	1.374	0.459	-
793	23330	QPSK	10	24.8	23.47	-0.19	Bottom	1	25	0	1:1	54	10	0.262	1.358	0.356	-
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- Ant. A																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
1860	26140	QPSK	20	19.0	18.32	0.14	Rear	0	1	99	1:1	14	10	0.287	1.169	0.336	-
1882.5	26365	QPSK	20	19.0	18.17	0.13	Rear	0	50	0	1:1	14	10	0.322	1.211	0.390	-
1860	26140	QPSK	20	19.0	18.32	0.18	Front	0	1	99	1:1	14	10	0.226	1.169	0.264	-
1882.5	26365	QPSK	20	19.0	18.17	-0.12	Front	0	50	0	1:1	14	10	0.296	1.211	0.358	-
1860	26140	QPSK	20	19.0	18.32	-0.18	Left	0	1	99	1:1	14	10	0.049	1.169	0.057	-
1882.5	26365	QPSK	20	19.0	18.17	0.06	Left	0	50	0	1:1	14	10	0.050	1.211	0.061	-
1860	26140	QPSK	20	19.0	18.32	-0.05	Right	0	1	99	1:1	14	10	0.061	1.169	0.071	-
1882.5	26365	QPSK	20	19.0	18.17	0.01	Right	0	50	0	1:1	14	10	0.065	1.211	0.079	-
1860	26140	QPSK	20	19.0	18.32	0.00	Bottom	0	1	99	1:1	14	10	0.659	1.169	0.770	-
1860	26140	QPSK	20	19.0	18.02	0.08	Bottom	0	50	0	1:1	14	10	0.542	1.253	0.679	-
1882.5	26365	QPSK	20	19.0	18.17	-0.10	Bottom	0	50	25	1:1	14	10	0.699	1.211	0.846	90
1905	26590	QPSK	20	19.0	17.87	0.12	Bottom	0	50	0	1:1	14	10	0.665	1.297	0.863	91
1882.5	26365	QPSK	20	19.0	18.03	0.12	Bottom	0	100	0	1:1	14	10	0.626	1.250	0.783	-
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- Ant. A																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
831.5	26865	QPSK	15	25.8	24.52	0.06	Rear	0	1	74	1:1	04	10	0.573	1.343	0.770	-
831.5	26865	QPSK	15	24.8	23.52	0.07	Rear	1	36	18	1:1	04	10	0.602	1.343	0.808	-
831.5	26865	QPSK	15	24.8	23.43	0.04	Rear	1	75	0	1:1	04	10	0.587	1.371	0.805	-
831.5	26865	QPSK	15	25.8	24.52	-0.17	Front	0	1	74	1:1	04	10	0.532	1.343	0.714	-
831.5	26865	QPSK	15	24.8	23.52	0.03	Front	1	36	18	1:1	04	10	0.402	1.343	0.540	-
831.5	26865	QPSK	15	25.8	24.52	-0.03	Left	0	1	74	1:1	04	10	0.127	1.343	0.171	-
831.5	26865	QPSK	15	24.8	23.52	-0.13	Left	1	36	18	1:1	04	10	0.127	1.343	0.171	-
831.5	26865	QPSK	15	25.8	24.52	-0.04	Right	0	1	74	1:1	04	10	0.375	1.343	0.504	-
831.5	26865	QPSK	15	24.8	23.52	0.06	Right	1	36	18	1:1	04	10	0.292	1.343	0.392	-
831.5	26865	QPSK	15	25.8	24.52	-0.13	Bottom	0	1	74	1:1	04	10	0.373	1.343	0.501	-
831.5	26865	QPSK	15	24.8	23.52	-0.15	Bottom	1	36	18	1:1	04	10	0.263	1.343	0.353	-
LTE Band 5 Up-link Carrier Aggregation																	
PCC	20476	QPSK	10	25.8	24.42	-0.13	Rear	0	1	49	1:1	04	10	0.641	1.374	0.881	92
831.6	20575		10						1	0							
SCC	841.5																
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- Ant. B

Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
2 310	27710	QPSK	10	19.5	18.98	-0.14	Rear	0	1	0	1:1		10	0.306	1.127	0.345	-
2 310	27710	QPSK	10	19.5	18.89	0.15	Rear	0	25	0	1:1		10	0.323	1.151	0.372	-
2 310	27710	QPSK	10	19.5	18.98	-0.05	Front	0	1	0	1:1		10	0.381	1.127	0.429	-
2 310	27710	QPSK	10	19.5	18.89	0.13	Front	0	25	0	1:1		10	0.373	1.151	0.429	-
2 310	27710	QPSK	10	19.5	18.98	-0.10	Left	0	1	0	1:1		10	0.140	1.127	0.158	-
2 310	27710	QPSK	10	19.5	18.89	-0.15	Left	0	25	0	1:1		10	0.144	1.151	0.166	-
2 310	27710	QPSK	10	19.5	18.98	-0.05	Bottom	0	1	0	1:1		10	0.738	1.127	0.832	-
2 310	27710	QPSK	10	19.5	18.89	-0.03	Bottom	0	25	0	1:1		10	0.780	1.151	0.898	93
2 310	27710	QPSK	10	19.5	18.81	-0.01	Bottom	0	50	0	1:1		10	0.763	1.172	0.894	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE Band 40 Hotspot SAR_ Lower frequency range

Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
2 310	38750	QPSK	10	14.0	13.18	0.11	Rear	0	1	24	1:1.58		10	0.080	1.208	0.097	-
2 310	38750	QPSK	10	14.0	12.25	-0.11	Rear	0	25	12	1:1.58		10	0.066	1.496	0.099	-
2 310	38750	QPSK	10	14.0	13.18	-0.14	Front	0	1	24	1:1.58		10	0.097	1.208	0.117	-
2 310	38750	QPSK	10	14.0	12.25	-0.17	Front	0	25	12	1:1.58		10	0.081	1.496	0.121	-
2 310	38750	QPSK	10	14.0	13.18	-0.09	Left	0	1	24	1:1.58		10	0.028	1.208	0.034	-
2 310	38750	QPSK	10	14.0	12.25	0.16	Left	0	25	12	1:1.58		10	0.022	1.496	0.033	-
2 310	38750	QPSK	10	14.0	13.18	-0.13	Bottom	0	1	24	1:1.58		10	0.153	1.208	0.185	94
2 310	38750	QPSK	10	14.0	12.25	-0.19	Bottom	0	25	12	1:1.58		10	0.127	1.496	0.190	95
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

LTE Band 40 Hotspot SAR_ Upper frequency range- Ant. B

Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
2 355	39200	QPSK	10	14.0	13.13	0.04	Rear	0	1	24	1:1.58		10	0.087	1.222	0.106	-
2 355	39200	QPSK	10	14.0	12.20	-0.18	Rear	0	25	24	1:1.58		10	0.069	1.514	0.104	-
2 355	39200	QPSK	10	14.0	13.13	0.18	Front	0	1	24	1:1.58		10	0.092	1.222	0.112	-
2 355	39200	QPSK	10	14.0	12.20	-0.18	Front	0	25	24	1:1.58		10	0.084	1.514	0.127	-
2 355	39200	QPSK	10	14.0	13.13	0.05	Left	0	1	24	1:1.58		10	0.026	1.222	0.032	-
2 355	39200	QPSK	10	14.0	12.20	-0.13	Left	0	25	24	1:1.58		10	0.020	1.514	0.030	-
2 355	39200	QPSK	10	14.0	13.13	-0.11	Bottom	0	1	24	1:1.58		10	0.175	1.222	0.214	96
2 355	39200	QPSK	10	14.0	12.20	-0.16	Bottom	0	25	24	1:1.58		10	0.140	1.514	0.212	-
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- Ant. B																		
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																	(Mhz)
Power class 3																		
2 506.0	39750	QPSK	20	21.0	20.84	0.16	Rear	0	1	0	1:1.58		10	0.268	1.038	0.278		
2 506.0	39750	QPSK	20	21.0	20.69	0.13	Rear	0	50	25	1:1.58		10	0.278	1.074	0.299	-	
2 506.0	39750	QPSK	20	21.0	20.84	0.10	Front	0	1	0	1:1.58		10	0.265	1.038	0.275	-	
2 506.0	39750	QPSK	20	21.0	20.69	0.10	Front	0	50	25	1:1.58		10	0.276	1.074	0.296	-	
2 506.0	39750	QPSK	20	21.0	20.84	0.12	Left	0	1	0	1:1.58		10	0.155	1.038	0.161	-	
2 506.0	39750	QPSK	20	21.0	20.69	0.09	Left	0	50	25	1:1.58		10	0.162	1.074	0.174	-	
2 506.0	39750	QPSK	20	21.0	20.84	-0.07	Bottom	0	1	0	1:1.58		10	0.573	1.038	0.595	-	
2 549.5	40185	QPSK	20	21.0	20.38	-0.02	Bottom	0	1	0	1:1.58		10	0.715	1.153	0.824	-	
2 593.0	40620	QPSK	20	21.0	20.29	-0.11	Bottom	0	1	49	1:1.58		10	0.760	1.178	0.895	-	
2 636.5	41055	QPSK	20	21.0	20.18	0.02	Bottom	0	1	49	1:1.58		10	0.587	1.208	0.709	-	
2 680.0	41490	QPSK	20	21.0	20.45	-0.04	Bottom	0	1	49	1:1.58		10	0.558	1.135	0.633	-	
2 506.0	39750	QPSK	20	21.0	20.69	-0.07	Bottom	0	50	0	1:1.58		10	0.604	1.074	0.649	-	
2 549.5	40185	QPSK	20	21.0	20.51	-0.03	Bottom	0	50	25	1:1.58		10	0.631	1.119	0.706	-	
2 593.0	40620	QPSK	20	21.0	20.50	-0.01	Bottom	0	50	25	1:1.58		10	0.781	1.122	0.876	97	
2 636.5	41055	QPSK	20	21.0	20.31	0.02	Bottom	0	50	25	1:1.58		10	0.605	1.172	0.709	-	
2 680.0	41490	QPSK	20	21.0	20.56	0.02	Bottom	0	50	49	1:1.58		10	0.570	1.107	0.631	-	
2 506.0	39750	QPSK	20	21.0	20.59	0.10	Bottom	0	100	0	1:1.58		10	0.595	1.099	0.654	-	
Power class 2 (HPUE)																		
2 593.0	40620	QPSK	20	23.0	22.00	-0.03	Bottom	0	1	49	1:2.31		10	0.723	1.259	0.910	98	
Up-link Carrier Aggregation Power class 3 (41C)																		
2 593.0	40620	QPSK	PCC	20	21.0	20.94	-0.01	Bottom	0	1	0	1:1.58		10	0.621	1.014	0.630	-
2525.8	39948	QPSK	SCC	20						1	99							
Up-link Carrier Aggregation Power class 2(HPUE) (41C)																		
2 593.0	40620	QPSK	PCC	20	23.0	22.48	-0.00	Bottom	0	1	0	1:2.31		10	0.634	1.127	0.715	-
2525.8	39948	QPSK	SCC	20						1	99							
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak								Body 1.6 W/kg Averaged over 1 gram										
Uncontrolled Exposure/ General Population																		

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- Ant. G

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																	(Mhz)
3 690	56640	QPSK	20	24.5	23.63	-0.15	Rear	0	1	0	1:1.58		10	0.191	1.222	0.233	-	
3 690	56640	QPSK	20	23.5	22.60	0.02	Rear	0	50	0	1:1.58		10	0.166	1.230	0.204	-	
3 690	56640	QPSK	20	24.5	23.63	0.18	Front	0	1	0	1:1.58		10	0.237	1.222	0.290	-	
3 690	56640	QPSK	20	23.5	22.60	-0.17	Front	0	50	0	1:1.58		10	0.188	1.230	0.231	-	
3 690	56640	QPSK	20	24.5	23.63	0.11	Right	0	1	0	1:1.58		10	0.432	1.222	0.528	-	
3 690	56640	QPSK	20	23.5	22.60	-0.11	Right	0	50	0	1:1.58		10	0.314	1.230	0.386	-	
Up-link Carrier Aggregation(48C)																		
3 690	56640	QPSK	PCC	20	24.5	23.76	-0.18	Right	0	1	0	1:1.58		10	0.473	1.186	0.561	99
3650.2	56242	QPSK	PCC	20					0	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- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.	
Mhz	Ch.																	(Mhz)
1 770	132572	QPSK	20	19.5	18.47	0.17	Rear	0	1	0	1:1	01	10	0.342	1.268	0.434	-	
1 770	132572	QPSK	20	19.5	18.67	0.15	Rear	0	50	0	1:1	01	10	0.355	1.211	0.430	-	
1 770	132572	QPSK	20	19.5	18.47	0.05	Front	0	1	0	1:1	01	10	0.250	1.268	0.317	-	
1 770	132572	QPSK	20	19.5	18.67	0.12	Front	0	50	0	1:1	01	10	0.272	1.211	0.329	-	
1 770	132572	QPSK	20	19.5	18.47	-0.08	Left	0	1	0	1:1	01	10	0.056	1.268	0.071	-	
1 770	132572	QPSK	20	19.5	18.67	0.06	Left	0	50	0	1:1	01	10	0.066	1.211	0.080	-	
1 770	132572	QPSK	20	19.5	18.47	0.07	Right	0	1	0	1:1	01	10	0.073	1.268	0.093	-	
1 770	132572	QPSK	20	19.5	18.67	0.05	Right	0	50	0	1:1	01	10	0.077	1.211	0.093	-	
1 770	132572	QPSK	20	19.5	18.47	0.13	Bottom	0	1	0	1:1	01	10	0.547	1.268	0.694	-	
1 770	132572	QPSK	20	19.5	18.67	0.14	Bottom	0	50	0	1:1	01	10	0.587	1.211	0.711	-	
Up-link Carrier Aggregation (66B)																		
1770	132572	QPSK	PCC	10	19.5	18.62	-0.14	Bottom	0	1	0	1:1	01	10	0.667	1.225	0.817	100
1706.1	132473	QPSK	SCC	10					0	1	49							
Up-link Carrier Aggregation (66C)																		
1770	132572	QPSK	PCC	20	19.5	18.78	0.19	Bottom	0	1	0	1:1	01	10	0.679	1.180	0.801	101
1750.2	132374	QPSK	SCC	20					0	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 71 Hotspot SAR- Ant. A

Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
680.5	133297	QPSK	20	25.8	24.92	-0.02	Rear	0	1	0	1:1	54	10	0.385	1.225	0.472	102
680.5	133297	QPSK	20	24.8	23.95	-0.03	Rear	1	50	0	1:1	54	10	0.308	1.216	0.375	-
680.5	133297	QPSK	20	25.8	24.92	-0.01	Front	0	1	0	1:1	54	10	0.219	1.225	0.268	-
680.5	133297	QPSK	20	24.8	23.95	-0.05	Front	1	50	0	1:1	54	10	0.178	1.216	0.216	-
680.5	133297	QPSK	20	25.8	24.92	-0.03	Left	0	1	0	1:1	54	10	0.105	1.225	0.129	-
680.5	133297	QPSK	20	24.8	23.95	0.04	Left	1	50	0	1:1	54	10	0.093	1.216	0.113	-
680.5	133297	QPSK	20	25.8	24.92	0.01	Right	0	1	0	1:1	54	10	0.193	1.225	0.236	-
680.5	133297	QPSK	20	24.8	23.95	-0.04	Right	1	50	0	1:1	54	10	0.172	1.216	0.209	-
680.5	133297	QPSK	20	25.8	24.92	-0.10	Bottom	0	1	0	1:1	54	10	0.226	1.225	0.277	-
680.5	133297	QPSK	20	24.8	23.95	-0.17	Bottom	1	50	0	1:1	54	10	0.183	1.216	0.223	-
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- Ant. A

Frequency		Mode	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	0.03	Rear	0	1	53	1:1	0	10	0.471	1.274	0.600	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	-0.15	Rear	0	50	28	1:1	0	10	0.529	1.253	0.663	103
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	-0.00	Front	0	1	53	1:1	0	10	0.272	1.274	0.347	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	-0.02	Front	0	50	28	1:1	0	10	0.331	1.253	0.415	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	-0.11	Left	0	1	53	1:1	0	10	0.121	1.274	0.154	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	0.01	Left	0	50	28	1:1	0	10	0.122	1.253	0.153	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	0.18	Right	0	1	53	1:1	0	10	0.289	1.274	0.368	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	-0.02	Right	0	50	28	1:1	0	10	0.300	1.253	0.376	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.75	-0.14	Bottom	0	1	53	1:1	0	10	0.253	1.274	0.322	-
836.5	167300	DFT-s OFDM QPSK	20	25.8	24.82	0.11	Bottom	0	50	28	1:1	0	10	0.261	1.253	0.327	-
836.5	167300	CP QPSK	20	24.3	23.32	0.02	Rear	1.5	1	1	1:1	0	10	0.282	1.253	0.353	-
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- Ant. A																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	0.03	Rear	0	1	1	1:1	0	10	0.316	1.180	0.373	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	-0.12	Rear	0	36	22	1:1	0	10	0.360	1.202	0.433	104
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	-0.02	Front	0	1	1	1:1	0	10	0.218	1.180	0.257	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	-0.03	Front	0	36	22	1:1	0	10	0.236	1.202	0.284	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	-0.01	Left	0	1	1	1:1	0	10	0.107	1.180	0.126	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	0.02	Left	0	36	22	1:1	0	10	0.118	1.202	0.142	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	0.04	Right	0	1	1	1:1	0	10	0.172	1.180	0.203	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	0.01	Right	0	36	22	1:1	0	10	0.202	1.202	0.243	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.78	0.04	Bottom	0	1	1	1:1	0	10	0.154	1.180	0.182	-
707.5	141500	DFT-s OFDM QPSK	15	25.5	24.70	-0.13	Bottom	0	36	22	1:1	0	10	0.169	1.202	0.203	-
707.5	141500	CP QPSK	15	24.0	23.48	0.00	Rear	1.5	1	1	1:1	0	10	0.243	1.127	0.274	-
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- Ant. A																	
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.62	0.12	Rear	0	1	1	1:1	0	10	0.405	1.091	0.442	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.51	-0.05	Rear	0	108	0	1:1	0	10	0.382	1.119	0.427	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.62	0.13	Front	0	1	1	1:1	0	10	0.384	1.091	0.419	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.51	-0.15	Front	0	108	0	1:1	0	10	0.378	1.119	0.423	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.62	0.11	Left	0	1	1	1:1	0	10	0.065	1.091	0.071	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.51	-0.16	Left	0	108	0	1:1	0	10	0.052	1.119	0.058	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.62	0.19	Right	0	1	1	1:1	0	10	0.071	1.091	0.077	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.51	-0.12	Right	0	108	0	1:1	0	10	0.063	1.119	0.070	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.62	0.07	Bottom	0	1	1	1:1	0	10	0.805	1.091	0.878	105
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.51	-0.03	Bottom	0	108	0	1:1	0	10	0.763	1.119	0.854	-
1 882.5	376500	CP QPSK	40	19.0	18.65	-0.18	Bottom	0	1	1	1:1	0	10	0.763	1.084	0.827	-
1 882.5	376500	DFT-s OFDM QPSK	40	19.0	18.62	-0.07	Bottom	0	1	1	1:1	0	10	0.805	1.091	0.878	*
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.

NR Band n30 Hotspot SAR- Ant. B

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	19.5	19.41	0.12	Rear	0	1	50	1:1	10	0.386	1.021	0.394	-
2 310	462000	DFT-s OFDM QPSK	10	19.5	19.17	0.10	Rear	0	25	27	1:1	10	0.397	1.079	0.428	-
2 310	462000	DFT-s OFDM QPSK	10	19.5	19.41	0.12	Front	0	1	50	1:1	10	0.426	1.021	0.435	-
2 310	462000	DFT-s OFDM QPSK	10	19.5	19.17	0.12	Front	0	25	27	1:1	10	0.418	1.079	0.451	-
2 310	462000	DFT-s OFDM QPSK	10	19.5	19.41	0.16	Left	0	1	50	1:1	10	0.173	1.021	0.177	-
2 310	462000	DFT-s OFDM QPSK	10	19.5	19.17	0.13	Left	0	25	27	1:1	10	0.171	1.079	0.185	-
2 310	462000	DFT-s OFDM QPSK	10	19.5	19.41	0.01	Bottom	0	1	50	1:1	10	0.765	1.021	0.781	106
2 310	462000	DFT-s OFDM QPSK	10	19.5	19.17	0.01	Bottom	0	25	27	1:1	10	0.730	1.079	0.788	-
2 310	462000	CP QPSK	10	19.5	18.77	0.01	Bottom	0	1	1	1:1	10	0.696	1.183	0.823	107
2 310	462000	DFT-s OFDM QPS	10	19.5	19.00	-0.03	Bottom	0	50	0	1:1	10	0.721	1.122	0.809	
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 (Lower Antenna)- Ant. B

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	21	20.61	0.15	Rear	0	1	1	1:1	10	0.118	1.094	0.129	-
2592.99	518598	DFT-s OFDM QPSK	100	21	20.65	0.13	Rear	0	135	69	1:1	10	0.071	1.084	0.077	-
2592.99	518598	DFT-s OFDM QPSK	100	21	20.61	0.15	Front	0	1	1	1:1	10	0.098	1.094	0.107	-
2592.99	518598	DFT-s OFDM QPSK	100	21	20.65	0.17	Front	0	135	69	1:1	10	0.075	1.084	0.081	-
2592.99	518598	DFT-s OFDM QPSK	100	21	20.61	0.01	Left	0	1	1	1:1	10	0.065	1.094	0.071	-
2592.99	518598	DFT-s OFDM QPSK	100	21	20.65	-0.19	Left	0	135	69	1:1	10	0.048	1.084	0.052	-
2592.99	518598	DFT-s OFDM QPSK	100	21	20.61	0.15	Bottom	0	1	1	1:1	10	0.214	1.094	0.234	-
2592.99	518598	DFT-s OFDM QPSK	100	21	20.65	-0.01	Bottom	0	135	69	1:1	10	0.245	1.084	0.266	108
2592.99	518598	CP QPSK	100	21	20.51	-0.07	Bottom	0	1	1	1:1	10	0.231	1.119	0.258	-
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 (Upper Antenna) - Ant. F

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	25.5	24.74	-0.15	Rear	0	1	1	1:1	10	0.065	1.191	0.077	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	24.92	0.18	Rear	0	135	69	1:1	10	0.108	1.143	0.123	109
2592.99	518598	DFT-s OFDM QPSK	100	25.5	24.74	-0.15	Front	0	1	1	1:1	10	0.041	1.191	0.049	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	24.92	0.17	Front	0	135	69	1:1	10	0.058	1.143	0.066	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	24.74	0.15	Right	0	1	1	1:1	10	0.024	1.191	0.029	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	24.92	0.12	Right	0	135	69	1:1	10	0.018	1.143	0.021	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	24.74	-0.01	Top	0	1	1	1:1	10	0.051	1.191	0.061	-
2592.99	518598	DFT-s OFDM QPSK	100	25.5	24.92	-0.02	Top	0	135	69	1:1	10	0.062	1.143	0.071	-
2592.99	518598	CP QPSK	100	24.0	23.41	0.12	Rear	1.5	1	1	1:1	10	0.055	1.146	0.063	-
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 2 (Upper Antenna) - Ant. F

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	26.5	26.21	-0.18	Rear	0	1	1	1:1	10	0.080	1.069	0.086	-
2592.99	518598	DFT-s OFDM QPSK	100	26.5	26.21	0.13	Rear	0	135	69	1:1	10	0.108	1.069	0.115	110
2592.99	518598	DFT-s OFDM QPSK	100	26.5	26.21	0.11	Front	0	1	1	1:1	10	0.054	1.069	0.058	-
2592.99	518598	DFT-s OFDM QPSK	100	26.5	26.21	-0.07	Front	0	135	69	1:1	10	0.081	1.069	0.087	-
2592.99	518598	DFT-s OFDM QPSK	100	26.5	26.21	-0.17	Right	0	1	1	1:1	10	0.038	1.069	0.041	-
2592.99	518598	DFT-s OFDM QPSK	100	26.5	26.21	0.14	Right	0	135	69	1:1	10	0.046	1.069	0.049	-
2592.99	518598	DFT-s OFDM QPSK	100	26.5	26.21	-0.01	Top	0	1	1	1:1	10	0.055	1.069	0.059	-
2592.99	518598	DFT-s OFDM QPSK	100	26.5	26.21	-0.06	Top	0	135	69	1:1	10	0.097	1.069	0.104	-
2592.99	518598	CP QPSK	100	25.0	24.91	0.11	Rear	1.5	1	1	1:1	10	0.077	1.021	0.079	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n66Hotspot SAR- Ant. A

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.84	-0.07	Rear	0	1	1	1:1	01	10	0.483	1.038	0.501	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.71	-0.03	Rear	0	108	0	1:1	01	10	0.484	1.069	0.517	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.84	0.08	Front	0	1	1	1:1	01	10	0.420	1.038	0.436	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.71	-0.02	Front	0	108	0	1:1	01	10	0.433	1.069	0.463	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.84	-0.18	Left	0	1	1	1:1	01	10	0.116	1.038	0.120	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.71	-0.05	Left	0	108	0	1:1	01	10	0.119	1.069	0.127	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.84	-0.03	Right	0	1	1	1:1	01	10	0.087	1.038	0.090	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.71	-0.04	Right	0	108	0	1:1	01	10	0.095	1.069	0.102	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.84	-0.16	Bottom	0	1	1	1:1	01	10	1.02	1.038	1.059	111
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.71	0.05	Bottom	0	108	0	1:1	01	10	0.985	1.069	1.053	-
1 745	349000	CP QPSK	40	19.0	18.97	-0.01	Bottom	0	1	1	1:1	01	10	0.807	1.007	0.813	-
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.84	-0.01	Bottom	0	1	1	1:1	01	10	0.997	1.038	1.035	*
1 745	349000	DFT-s OFDM QPSK	40	19.0	18.59	-0.05	Bottom	0	216	0	1:1	01	10	0.778	1.099	0.855	
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.

NR Band n71Hotspot SAR- Ant. A

Frequency		Modulation	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	0.03	Rear	0	1	1	1:1	54	10	0.251	1.459	0.366	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	0.02	Rear	0	50	28	1:1	54	10	0.292	1.452	0.424	112
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	0.11	Front	0	1	1	1:1	54	10	0.171	1.459	0.249	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	-0.03	Front	0	50	28	1:1	54	10	0.183	1.452	0.266	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	-0.17	Left	0	1	1	1:1	54	10	0.086	1.459	0.125	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	-0.05	Left	0	50	28	1:1	54	10	0.078	1.452	0.113	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	-0.03	Right	0	1	1	1:1	54	10	0.153	1.459	0.223	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	0.02	Right	0	50	28	1:1	54	10	0.133	1.452	0.193	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.16	0.03	Bottom	0	1	1	1:1	54	10	0.131	1.459	0.191	-
680.5	136100	DFT-s OFDM QPSK	20	25.8	24.18	-0.04	Bottom	0	50	28	1:1	54	10	0.154	1.452	0.224	-
680.5	136100	CP QPSK	20	24.3	24.28	-0.15	Rear	1.5	1	1	1:1	54	10	0.109	1.005	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 n77 Hotspot SAR - Power Class 3- Ant. G

Frequency		Modulation	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.															
3840	656000	DFT-s OFDM QPSK	100	25.0	24.43	-0.05	Rear	0	1	271	1:1	10	0.031	1.140	0.035	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.13	-0.13	Rear	0	135	69	1:1	10	0.036	1.222	0.044	-
3840	656000	DFT-s OFDM QPSK	100	25.0	24.43	-0.12	Front	0	1	271	1:1	10	0.069	1.140	0.079	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.13	-0.12	Front	0	135	69	1:1	10	0.065	1.222	0.079	-
3840	656000	DFT-s OFDM QPSK	100	25.0	24.43	0.19	Right	0	1	271	1:1	10	0.068	1.140	0.078	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.13	0.12	Right	0	135	69	1:1	10	0.218	1.222	0.266	113
3840	656000	DFT-s OFDM QPSK	100	25.0	24.43	0.12	Top	0	1	271	1:1	10	0.016	1.140	0.018	-
3930	662000	DFT-s OFDM QPSK	100	25.0	24.13	0.11	Top	0	135	69	1:1	10	0.018	1.222	0.022	-
3840	656000	CP QPSK	100	23.5	23.00	-0.14	Rear	1.5	1	1	1:1	10	0.051	1.122	0.057	-
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 2- Ant. G

Frequency		Modulation	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.															
3840	656000	DFT-s OFDM QPSK	100	26.5	25.87	-0.17	Rear	0	1	271	1:1	10	0.094	1.156	0.109	-
3930	662000	DFT-s OFDM QPSK	100	26.5	25.56	-0.08	Rear	0	135	69	1:1	10	0.108	1.242	0.134	-
3840	656000	DFT-s OFDM QPSK	100	26.5	25.87	-0.15	Front	0	1	271	1:1	10	0.135	1.156	0.156	-
3930	662000	DFT-s OFDM QPSK	100	26.5	25.56	-0.17	Front	0	135	69	1:1	10	0.161	1.242	0.200	-
3840	656000	DFT-s OFDM QPSK	100	26.5	25.87	0.10	Right	0	1	271	1:1	10	0.292	1.156	0.338	114
3930	662000	DFT-s OFDM QPSK	100	26.5	25.56	-0.12	Right	0	135	69	1:1	10	0.127	1.242	0.158	-
3840	656000	DFT-s OFDM QPSK	100	26.5	25.87	0.12	Top	0	1	271	1:1	10	0.034	1.156	0.039	-
3930	662000	DFT-s OFDM QPSK	100	26.5	25.56	0.16	Top	0	135	69	1:1	10	0.037	1.242	0.046	-
3840	656000	CP QPSK	100	25.0	24.41	-0.16	Front	1.5	1	1	1:1	10	0.073	1.146	0.084	-
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 (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.																
2 437	6	802.11b	20	1	21.0	20.00	-0.13	Rear	Ant1	98.8	10	0.400	0.256	1.259	1.012	0.326	-
2 437	6	802.11b	20	1	21.0	20.00	0.01	Front	Ant1	98.8	10	0.400	0.240	1.259	1.012	0.306	-
2 437	6	802.11b	20	1	21.0	20.00	-0.13	Left	Ant1	98.8	10	0.840	0.479	1.259	1.012	0.610	-
2 462	11	802.11b	20	1	21.0	20.31	0.14	Rear	Ant2	98.8	10	0.765	0.451	1.172	1.012	0.535	-
2 462	11	802.11b	20	1	21.0	20.31	0.00	Front	Ant2	98.8	10	0.0298	0.00	1.172	1.012	0.000	-
2 462	11	802.11b	20	1	21.0	20.31	0.18	Top	Ant2	98.8	10	0.0914	0.055	1.172	1.012	0.065	-
2 437	6	802.11g	20	6	21.0	19.91	0.19	Rear	MIMO	93.4	10	0.530	0.342	1.285	1.071	0.471	-
2 437	6	802.11g	20	6	21.0	19.91	0.19	Front	MIMO	93.4	10	0.292	0.173	1.285	1.071	0.238	-
2 437	6	802.11g	20	6	21.0	19.91	0.10	Left	MIMO	93.4	10	0.609	0.363	1.285	1.071	0.500	115
2 437	6	802.11g	20	6	21.0	19.91	-0.01	Top	MIMO	93.4	10	0.0876	0.053	1.285	1.071	0.073	-

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram
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SISO Wi-Fi (DTS) Hotspot SAR 1g –mmWave/RSBD

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.																
2 412	1	802.11b	20	1	17	16.58	-0.14	Rear	Ant1	98.8	10	0.482	0.177	1.102	1.012	0.197	-
2 412	1	802.11b	20	1	17	16.58		Front	Ant1	98.8	10	0.434		1.102	1.012		-
2 412	1	802.11b	20	1	17	16.58		Left	Ant1	98.8	10	0.684	0.404	1.102	1.012	0.450	116
2 462	11	802.11b	20	1	17	19.94	-0.13	Rear	Ant2	98.8	10	0.442	0.287	0.508	1.012	0.294	-
2 462	11	802.11b	20	1	17	19.94		Front	Ant2	98.8	10	0.00474		0.508	1.012		-
2 462	11	802.11b	20	1	17	19.94		Top	Ant2	98.8	10	0.0462		0.508	1.012		-

MIMO Wi-Fi (DTS) Hotspot SAR 1g –mmWave/RSBD

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.																
2 437	6	802.11g	20	6	20	19.81	0.17	Rear	MIMO	93.4	10	0.27	0.156	1.045	1.071	0.175	-
2 437	6	802.11g	20	6	20	19.81	0.17	Front	MIMO	93.4	10	0.212	0.116	1.045	1.071	0.130	-
2 437	6	802.11g	20	6	20	19.81	-0.06	Left	MIMO	93.4	10	0.609	0.363	1.045	1.071	0.406	117
2 437	6	802.11g	20	6	20	19.81	-0.02	Top	MIMO	93.4	10	0.0794	0.045	1.045	1.071	0.050	-

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram
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* Power Reduction condition during simultaneous conditions with 5 GHz WLAN

* Power Reduction condition during simultaneous conditions with mmWave and/or 5 GHz WLAN

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.																
5745	149	802.11a	20	6	18.0	17.71	0.18	Rear	Ant1	93.7	10	0.0837	0.034	1.069	1.067	0.039	-
5745	149	802.11a	20	6	18.0	17.71	0.10	Front	Ant1	93.7	10	0.164	0.059	1.069	1.067	0.067	-
5745	149	802.11a	20	6	18.0	17.71	0.11	Left	Ant1	93.7	10	0.449	0.178	1.069	1.067	0.203	-
5745	149	802.11a	20	6	18.0	17.69	0.12	Rear	Ant2	93.7	10	2.01	0.807	1.074	1.067	0.925	-
5 785	157	802.11a	20	6	18.0	16.98	-0.14	Rear	Ant2	93.7	10	1.99	0.824	1.265	1.067	1.112	118
5 825	165	802.11a	20	6	18.0	16.86	-0.11	Rear	Ant2	93.7	10	1.81	0.801	1.300	1.067	1.069	
5745	149	802.11a	20	6	18.0	17.69	-0.12	Front	Ant2	93.7	10	0.0111	0.00137	1.074	1.067	0.002	-
5745	149	802.11a	20	6	18.0	17.69	-0.11	Top	Ant2	93.7	10	0.371	0.157	1.074	1.067	0.180	-
5 785	157	802.11a	20	6	18.0	16.98	-0.14	Rear	Ant2	93.7	10	1.89	0.815	1.265	1.067	1.100	*
5745	149	802.11a	20	6	21.0	20.71	0.11	Rear	MIMO	93.7	10	1.89	0.775	1.069	1.067	0.884	-
5 785	157	802.11a	20	6	21.0	20.09	-0.08	Rear	MIMO	93.7	10	1.59	0.521	1.233	1.067	0.685	
5 825	165	802.11a	20	6	21.0	20.01	0.02	Rear	MIMO	93.7	10	1.23	0.499	1.256	1.067	0.669	
5745	149	802.11a	20	6	21.0	20.71	-0.17	Front	MIMO	93.7	10	0.187	0.073	1.069	1.067	0.083	-
5745	149	802.11a	20	6	21.0	20.71	0.06	Left	MIMO	93.7	10	0.421	0.175	1.069	1.067	0.200	-
5745	149	802.11a	20	6	21.0	20.71	0.11	Top	MIMO	93.7	10	0.374	0.167	1.069	1.067	0.190	-
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.

SISO 5 GHz WLAN Hotspot SAR 1g –mmWave / RSDB																	
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.																
5775	155	802.11ac	80	MCS0	14	12.77	0.01	Rear	Ant1	86.0	10	0.0251	0.00334	1.327	1.163	0.005	-
5775	155	802.11ac	80	MCS0	14	12.77	-0.01	Front	Ant1	86.0	10	0.0931	0.017	1.327	1.163	0.026	-
5775	155	802.11ac	80	MCS0	14	12.77	0.14	Left	Ant1	86.0	10	0.148	0.045	1.327	1.163	0.069	-
5775	155	802.11ac	80	MCS0	14	13.31	-0.15	Rear	Ant2	86.0	10	0.556	0.231	1.172	1.163	0.315	119
5775	155	802.11ac	80	MCS0	14	13.31	0.00	Front	Ant2	86.0	10	0	0.000	1.172	1.163	0.000	-
5775	155	802.11ac	80	MCS0	14	13.31	-0.11	Top	Ant2	86.0	10	0.106	0.011	1.172	1.163	0.015	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

* Power Reduction condition during simultaneous conditions with 2.4 GHz WLAN

* Power Reduction condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN

DSS Tethering SAR

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Distance	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dBm)	(dBm)	(dB)		(mm)	(W/kg)		(Duty)	(W/kg)	
2 402	0	Bluetooth DH5	15.0	14.98	0.16	Rear	10	0.113	1.005	1.302	0.148	-
2 402	0	Bluetooth DH5	15.0	14.98	-0.03	Front	10	0.114	1.005	1.302	0.149	-
2 402	0	Bluetooth DH5	15.0	14.98	-0.16	Left	10	0.169	1.005	1.302	0.221	120
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 (DSI=1)

PCS CDMA Phablet SAR10g- Ant. A

Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.	(dB)	(dB)	(dB)	(mm)	(W/kg)					(W/kg)				
1 880	600	PCS CDMA	EVDO Rev.0	24.5	23.46	0.07	Rear	OFF	1:1	20	8	1.31	1.271	1.665	-
1 880	600	PCS CDMA	EVDO Rev.0	24.5	23.46	0.07	Front	OFF	1:1	20	6	1.66	1.271	2.110	-
1851.25	25	PCS CDMA	EVDO Rev.0	24.5	23.29	-0.05	Bottom	OFF	1:1	20	11	1.41	1.321	1.863	-
1 880	600	PCS CDMA	EVDO Rev.0	24.5	23.46	-0.17	Bottom	OFF	1:1	20	11	1.82	1.271	2.313	-
1908.75	1175	PCS CDMA	EVDO Rev.0	24.5	23.15	-0.02	Bottom	OFF	1:1	20	11	1.33	1.365	1.815	-
1 880	600	PCS CDMA	EVDO Rev.0	24.5	23.46	-0.14	Left	N/A	1:1	20	0	0.530	1.271	0.674	-
1 880	600	PCS CDMA	EVDO Rev.0	24.5	23.46	0.12	Right	N/A	1:1	20	0	0.262	1.271	0.333	-
1851.25	25	PCS CDMA	EVDO Rev.0	20.0	19.77	0.11	Rear	ON	1:1	20	0	1.51	1.054	1.592	-
1 880	600	PCS CDMA	EVDO Rev.0	20.0	19.95	0.12	Rear	ON	1:1	20	0	1.77	1.012	1.791	-
1908.75	1175	PCS CDMA	EVDO Rev.0	20.0	19.63	0.18	Rear	ON	1:1	20	0	1.51	1.089	1.644	-
1 880	600	PCS CDMA	EVDO Rev.0	20.0	19.95	0.15	Front	ON	1:1	20	0	1.72	1.012	1.741	-
1851.25	25	PCS CDMA	EVDO Rev.0	20.0	19.77	0.14	Bottom	ON	1:1	20	0	2.26	1.054	2.382	121
1 880	600	PCS CDMA	EVDO Rev.0	20.0	19.95	0.05	Bottom	ON	1:1	20	0	2.04	1.012	2.064	-
1908.75	1175	PCS CDMA	EVDO Rev.0	20.0	19.63	-0.01	Bottom	ON	1:1	20	0	2.0	1.089	2.178	-
1851.25	25	PCS CDMA	EVDO Rev.0	20.0	19.77	0.06	Bottom	ON	1:1	20	0	2.21	1.054	2.329	*
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Hand 4.0 W/kg Averaged over 10gram								

Note: * Data entry indicate Variability measurement.

GSM 1900 Phablet SAR 10g- Ant. A														
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.													
1 880	661	GPRS 3Tx	27.5	26.18	0.05	Rear	OFF	1:2.77	0	8	0.471	1.355	0.638	-
1 880	661	GPRS 3Tx	27.5	26.18	-0.09	Front	OFF	1:2.77	0	6	0.466	1.355	0.631	-
1 880	661	GPRS 3Tx	27.5	26.18	-0.10	Bottom	OFF	1:2.77	0	11	1.19	1.355	1.612	-
1 880	661	GPRS 3Tx	27.5	26.18	-0.14	Left	N/A	1:2.77	0	0	0.523	1.355	0.709	-
1 880	661	GPRS 3Tx	27.5	26.18	0.17	Right	N/A	1:2.77	0	0	0.397	1.355	0.538	-
1 880	661	GPRS 4Tx	22.5	21.78	0.17	Rear	ON	1:2.075	0	0	1.15	1.180	1.357	-
1 880	661	GPRS 4Tx	22.5	21.78	0.11	Front	ON	1:2.075	0	0	1.22	1.180	1.440	-
1850.2	512	GPRS 4Tx	22.5	21.51	0.12	Bottom	ON	1:2.075	0	0	1.87	1.256	2.349	122
1 880	661	GPRS 4Tx	22.5	21.78	-0.08	Bottom	ON	1:2.075	0	0	1.93	1.180	2.277	123
1909.8	810	GPRS 4Tx	22.5	21.59	0.14	Bottom	ON	1:2.075	0	0	1.84	1.233	2.269	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Hand 4.0 W/kg Averaged over 10 gram							

UMTS1700Phablet SAR 10g- Ant. A														
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.													
1732.4	1412	RMC	24.5	24.48	0.19	Rear	OFF	1:1	01	8	1.19	1.005	1.196	-
1732.4	1412	RMC	24.5	24.48	0.15	Front	OFF	1:1	01	6	1.34	1.005	1.347	-
1732.4	1412	RMC	24.5	24.48	-0.18	Bottom	OFF	1:1	01	11	1.29	1.005	1.296	-
1732.4	1412	RMC	24.5	24.48	-0.09	Left	N/A	1:1	01	0	0.657	1.005	0.660	-
1732.4	1412	RMC	24.5	24.48	0.03	Right	N/A	1:1	01	0	0.489	1.005	0.491	-
1732.4	1412	RMC	20.5	20.42	0.18	Rear	ON	1:1	01	0	1.41	1.019	1.437	-
1732.4	1412	RMC	20.5	20.42	0.13	Front	ON	1:1	01	0	1.73	1.019	1.763	-
1732.4	1412	RMC	20.5	20.42	-0.14	Bottom	ON	1:1	01	0	1.94	1.019	1.977	124
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Hand 4.0 W/kg Averaged over 10 gram							

UMTS1900Phablet SAR 10g- Ant. A														
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.													
1 880.0	9400	RMC	24.5	24.18	-0.13	Rear	OFF	1:1	14	8	1.12	1.076	1.205	-
1 880.0	9400	RMC	24.5	24.18	0.15	Front	OFF	1:1	14	6	1.17	1.076	1.259	-
1 880.0	9400	RMC	24.5	24.18	-0.15	Bottom	OFF	1:1	14	11	1.44	1.076	1.549	-
1 880.0	9400	RMC	24.5	24.18	0.16	Left	N/A	1:1	14	0	0.600	1.076	0.646	-
1 880.0	9400	RMC	24.5	24.18	-0.15	Right	N/A	1:1	14	0	0.431	1.076	0.464	-
1 880.0	9400	RMC	20.0	19.59	0.12	Rear	ON	1:1	14	0	0.988	1.099	1.086	-
1 880.0	9400	RMC	20.0	19.59	0.01	Front	ON	1:1	14	0	1.2	1.099	1.319	-
1 880.0	9400	RMC	20.0	19.59	0.01	Bottom	ON	1:1	14	0	1.53	1.099	1.681	125
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram						

LTE Band 7 Phablet SAR 10g- Ant. B																		
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	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																	
2 510	20850	QPSK	20	24.0	23.25	0.17	Rear	OFF	0	1	0	1:1		8	0.471	1.189	0.560	-
2 510	20850	QPSK	20	23.0	22.36	0.15	Rear	OFF	1	50	0	1:1		8	0.382	1.159	0.443	-
2 510	20850	QPSK	20	24.0	23.25	0.12	Front	OFF	0	1	0	1:1		6	0.597	1.189	0.710	-
2 510	20850	QPSK	20	23.0	22.36	0.18	Front	OFF	1	50	0	1:1		6	0.475	1.159	0.551	-
2 510	20850	QPSK	20	24.0	23.25	-0.02	Bottom	OFF	0	1	0	1:1		11	0.577	1.189	0.686	-
2 510	20850	QPSK	20	23.0	22.36	0.07	Bottom	OFF	1	50	0	1:1		11	0.579	1.159	0.671	-
2 510	20850	QPSK	20	24.0	23.25	-0.12	Left	N/A	0	1	0	1:1		0	0.869	1.189	1.033	-
2 510	20850	QPSK	20	23.0	22.36	-0.17	Left	N/A	1	50	0	1:1		0	0.707	1.159	0.819	-
2 560	21350	QPSK	20	20.5	19.76	0.18	Rear	ON	0	1	0	1:1		0	1.49	1.186	1.767	-
2 560	21350	QPSK	20	20.5	19.73	0.18	Rear	ON	0	50	0	1:1		0	1.53	1.194	1.827	126
2 560	21350	QPSK	20	20.5	19.76	0.18	Front	ON	0	1	0	1:1		0	1.04	1.186	1.233	-
2 560	21350	QPSK	20	20.5	19.73	0.17	Front	ON	0	50	0	1:1		0	1.09	1.194	1.301	-
2 560	21350	QPSK	20	20.5	19.76	-0.03	Bottom	ON	0	1	0	1:1		0	1.21	1.186	1.435	-
2 560	21350	QPSK	20	20.5	19.73	-0.09	Bottom	ON	0	50	0	1:1		0	1.22	1.194	1.457	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram										

LTE Band 25 Phablet SAR 10g- Ant. A																		
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	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																	
1 882.5	26365	QPSK	20	24.5	23.65	0.04	Rear	OFF	0	1	0	1:1	14	8	0.793	1.216	0.964	-
1 882.5	26365	QPSK	20	23.5	22.77	0.08	Rear	OFF	1	50	25	1:1	14	8	0.649	1.183	0.768	-
1 882.5	26365	QPSK	20	24.5	23.65	0.07	Front	OFF	0	1	0	1:1	14	6	0.900	1.216	1.094	-
1 882.5	26365	QPSK	20	23.5	22.77	0.09	Front	OFF	1	50	25	1:1	14	6	0.722	1.183	0.854	-
1 882.5	26365	QPSK	20	24.5	23.65	-0.15	Bottom	OFF	0	1	0	1:1	14	11	1.21	1.216	1.471	-
1 882.5	26365	QPSK	20	23.5	22.77	-0.08	Bottom	OFF	1	50	25	1:1	14	11	1.04	1.183	1.230	-
1 882.5	26365	QPSK	20	24.5	23.65	0.03	Left	N/A	0	1	0	1:1	14	0	0.492	1.216	0.598	-
1 882.5	26365	QPSK	20	23.5	22.77	0.10	Left	N/A	1	50	25	1:1	14	0	0.415	1.183	0.491	-
1 882.5	26365	QPSK	20	24.5	23.65	0.17	Right	N/A	0	1	0	1:1	14	0	0.401	1.216	0.488	-
1 882.5	26365	QPSK	20	23.5	22.77	0.10	Right	N/A	1	50	25	1:1	14	0	0.340	1.183	0.402	-
1 882.5	26365	QPSK	20	20.5	19.33	0.10	Rear	ON	0	1	0	1:1	14	0	1.01	1.309	1.322	-
1 882.5	26365	QPSK	20	20.5	19.34	0.14	Rear	ON	0	50	25	1:1	14	0	1.02	1.306	1.332	-
1 882.5	26365	QPSK	20	20.5	19.33	0.18	Front	ON	0	1	0	1:1	14	0	1.09	1.309	1.427	-
1 882.5	26365	QPSK	20	20.5	19.34	0.19	Front	ON	0	50	25	1:1	14	0	1.09	1.306	1.424	-
1 882.5	26365	QPSK	20	20.5	19.33	-0.06	Bottom	ON	0	1	0	1:1	14	0	1.33	1.309	1.741	-
1 882.5	26365	QPSK	20	20.5	19.34	-0.05	Bottom	ON	0	50	25	1:1	14	0	1.34	1.306	1.750	127
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram									

LTE Band 30 Phablet SAR 10g- Ant. B																		
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	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																	
2 310	27710	QPSK	10	25.8	24.52	-0.02	Rear	OFF	0	1	0	1:1		8	0.647	1.343	0.869	-
2 310	27710	QPSK	10	24.8	23.52	0.17	Rear	OFF	1	25	12	1:1		8	0.543	1.343	0.729	-
2 310	27710	QPSK	10	25.8	24.52	-0.09	Front	OFF	0	1	0	1:1		6	1.06	1.343	1.424	-
2 310	27710	QPSK	10	24.8	23.52	-0.15	Front	OFF	1	25	12	1:1		6	0.874	1.343	1.174	-
2 310	27710	QPSK	10	25.8	24.52	-0.03	Bottom	OFF	0	1	0	1:1		11	0.871	1.343	1.170	-
2 310	27710	QPSK	10	24.8	23.52	-0.14	Bottom	OFF	1	25	12	1:1		11	0.717	1.343	0.963	-
2 310	27710	QPSK	10	25.8	24.52	0.05	Left	N/A	0	1	0	1:1		0	0.902	1.343	1.211	-
2 310	27710	QPSK	10	24.8	23.52	0.11	Left	N/A	1	25	12	1:1		0	0.733	1.343	0.984	-
2 310	27710	QPSK	10	22.0	21.31	0.03	Rear	ON	0	1	0	1:1		0	2.03	1.172	2.379	-
2 310	27710	QPSK	10	22.0	21.25	0.10	Rear	ON	0	25	12	1:1		0	2.09	1.189	2.485	128
2 310	27710	QPSK	10	22.0	21.24	-0.01	Rear	ON	0	50	0	1:1		0	2.07	1.191	2.465	
2 310	27710	QPSK	10	22.0	21.31	0.08	Front	ON	0	1	0	1:1		0	0.869	1.172	1.018	-
2 310	27710	QPSK	10	22.0	21.25	0.01	Front	ON	0	25	12	1:1		0	0.860	1.189	1.023	-
2 310	27710	QPSK	10	22.0	21.31	0.12	Bottom	ON	0	1	0	1:1		0	1.18	1.172	1.383	-
2 310	27710	QPSK	10	22.0	21.25	0.08	Bottom	ON	0	25	12	1:1		0	1.21	1.189	1.439	-
2 310	27710	QPSK	10	22.0	21.25	-0.01	Rear	ON	0	25	12	1:1		0	2.07	1.189	2.461	*
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 41 Phablet SAR 10g- Ant. B																			
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	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.	
Mhz	Ch.																		
Power class 3																			
2 680.0	41490	QPSK	20	25.0	23.99	0.13	Rear	OFF	0	1	0	1:1.58		8	0.259	1.262	0.327	-	
2 680.0	41490	QPSK	20	24.0	23.06	0.17	Rear	OFF	1	50	0	1:1.58		8	0.230	1.242	0.286	-	
2 680.0	41490	QPSK	20	25.0	23.99	0.13	Front	OFF	0	1	0	1:1.58		6	0.412	1.262	0.520	-	
2 680.0	41490	QPSK	20	24.0	23.06	0.14	Front	OFF	1	50	0	1:1.58		6	0.336	1.242	0.417	-	
2 680.0	41490	QPSK	20	25.0	23.99	-0.04	Bottom	OFF	0	1	0	1:1.58		11	0.483	1.262	0.610	-	
2 680.0	41490	QPSK	20	24.0	23.06	-0.01	Bottom	OFF	1	50	0	1:1.58		11	0.391	1.242	0.486	-	
2 680.0	41490	QPSK	20	25.0	23.99	0.13	Left	N/A	0	1	0	1:1.58		0	0.542	1.262	0.684	-	
2 680.0	41490	QPSK	20	24.0	23.06	0.05	Left	N/A	1	50	0	1:1.58		0	0.563	1.242	0.699	-	
2 506.0	39750	QPSK	20	23.0	22.43	0.19	Rear	ON	0	1	99	1:1.58		0	1.78	1.140	2.029	-	
2 549.5	40185	QPSK	20	23.0	22.10	0.19	Rear	ON	0	1	0	1:1.58		0	1.76	1.230	2.165	-	
2 593.0	40620	QPSK	20	23.0	22.11	0.12	Rear	ON	0	1	0	1:1.58		0	1.71	1.227	2.098	-	
2 636.5	41055	QPSK	20	23.0	21.72	0.18	Rear	ON	0	1	0	1:1.58		0	1.61	1.343	2.162	-	
2 680.0	41490	QPSK	20	23.0	21.99	1.13	Rear	ON	0	1	0	1:1.58		0	1.46	1.262	1.843	-	
2 506.0	39750	QPSK	20	23.0	22.34	0.12	Rear	ON	0	50	49	1:1.58		0	1.9	1.164	2.212	129	
2 549.5	40185	QPSK	20	23.0	22.20	0.12	Rear	ON	0	50	0	1:1.58		0	1.8	1.202	2.164	-	
2 593.0	40620	QPSK	20	23.0	22.24	0.18	Rear	ON	0	50	0	1:1.58		0	1.77	1.191	2.108	-	
2 636.5	41055	QPSK	20	23.0	21.84	0.10	Rear	ON	0	50	0	1:1.58		0	1.7	1.247	2.120	-	
2 680.0	41490	QPSK	20	23.0	22.09	0.12	Rear	ON	0	50	0	1:1.58		0	1.5	1.233	1.850	-	
2 506.0	39750	QPSK	20	23.0	22.28	0.11	Rear	ON	0	100	0	1:1.58		0	1.79	1.180	2.112	-	
2 506.0	39750	QPSK	20	23.0	22.43	0.13	Front	ON	0	1	0	1:1.58		0	1.06	1.140	1.208	-	
2 506.0	39750	QPSK	20	23.0	22.34	0.14	Front	ON	0	50	25	1:1.58		0	1.09	1.164	1.269	-	
2 506.0	39750	QPSK	20	23.0	22.43	0.12	Bottom	ON	0	1	0	1:1.58		0	1.27	1.140	1.448	-	
2 506.0	39750	QPSK	20	23.0	22.34	0.10	Bottom	ON	0	50	25	1:1.58		0	1.35	1.164	1.571	-	
Power class 2 (HPUE)																			
2 506.0	39750	QPSK	20	25.0	24.09	0.04	Rear	ON	0	50	49	1:2.31		0	1.77	1.233	2.182	-	
Up-link Carrier Aggregation Power class 3 (41C)																			
2 506.0	39750	QPSK	PCC	20	23.0	22.44	0.10	Rear	ON	0	1	99	1:1.58		0	1.64	1.138	1.866	-
2525.8	39948	QPSK	SCC	20							1	0							
Up-link Carrier Aggregation Power class 2 (HPUE) (41C)																			
2 506.0	39750	QPSK	PCC	20	25.0	24.00	0.15	Rear	ON	0	1	99	1:2.31		0	1.49	1.259	1.876	-
2525.8	39948	QPSK	SCC	20							1	0							
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 SAR 10g- Ant. A																			
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	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.	
Mhz	Ch.																		
1 745	132322	QPSK	20	24.5	23.75	0.13	Rear	OFF	0	1	0	1:1	01	8	0.850	1.189	1.011	-	
1 745	132322	QPSK	20	23.5	22.82	0.13	Rear	OFF	1	50	0	1:1	01	8	0.723	1.169	0.845	-	
1 745	132322	QPSK	20	24.5	23.75	0.08	Front	OFF	0	1	0	1:1	01	6	1.26	1.189	1.498	-	
1 745	132322	QPSK	20	23.5	22.82	0.15	Front	OFF	1	50	0	1:1	01	6	1.02	1.169	1.192	-	
1 745	132322	QPSK	20	24.5	23.75	0.05	Bottom	OFF	0	1	0	1:1	01	11	1.09	1.189	1.296	-	
1 745	132322	QPSK	20	23.5	22.82	0.09	Bottom	OFF	1	50	0	1:1	01	11	0.902	1.169	1.054	-	
1 745	132322	QPSK	20	24.5	23.75	0.10	Left	N/A	0	1	0	1:1	01	0	0.569	1.189	0.677	-	
1 745	132322	QPSK	20	23.5	22.82	0.18	Left	N/A	1	50	0	1:1	01	0	0.475	1.169	0.555	-	
1 745	132322	QPSK	20	24.5	23.75	0.18	Right	N/A	0	1	0	1:1	01	0	0.414	1.189	0.492	-	
1 745	132322	QPSK	20	23.5	22.82	0.10	Right	N/A	1	50	0	1:1	01	0	0.340	1.169	0.397	-	
1 745	132322	QPSK	20	21.0	20.33	0.19	Rear	ON	0	1	0	1:1	01	0	1.2	1.167	1.400	-	
1 745	132322	QPSK	20	21.0	20.33	0.13	Rear	ON	0	50	0	1:1	01	0	1.22	1.167	1.424	-	
1 745	132322	QPSK	20	21.0	20.33	0.12	Front	ON	0	1	0	1:1	01	0	1.4	1.167	1.634	-	
1 745	132322	QPSK	20	21.0	20.33	0.11	Front	ON	0	50	0	1:1	01	0	1.48	1.167	1.727	-	
1 745	132322	QPSK	20	21.0	20.33	-0.01	Bottom	ON	0	1	0	1:1	01	0	1.44	1.167	1.680	-	
1 745	132322	QPSK	20	21.0	20.33	-0.06	Bottom	ON	0	50	0	1:1	01	0	1.52	1.167	1.774	130	
Up-link Carrier Aggregation (66B)																			
1 745	132322	QPSK	PCC	10	21.0	20.36	0.03	Bottom	ON	0	1	49	1:1	01	0	0.700	1.159	0.811	-
1754.9	132421	QPSK	SCC	10							1	0							
Up-link Carrier Aggregation (66C)																			
1 745	132322	QPSK	PCC	20	21.0	21.12	-0.07	Bottom	ON	0	1	99	1:1	01	0	0.940	0.973	0.915	-
1764.8	132520	QPSK	SCC	20							1	0							
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram										

NR Band n25Phablet SAR 10g- Ant. A

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	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																	
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	0.10	Rear	OFF	0	1	1	1:1	0	8	0.970	1.167	1.132	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	-0.03	Rear	OFF	0	50	28	1:1	0	8	0.950	1.256	1.193	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	-0.15	Front	OFF	0	1	1	1:1	0	6	1.52	1.167	1.774	131
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	-0.16	Front	OFF	0	50	28	1:1	0	6	1.26	1.256	1.583	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	-0.04	Bottom	OFF	0	1	1	1:1	0	11	1.34	1.167	1.564	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	-0.07	Bottom	OFF	0	50	28	1:1	0	11	1.3	1.256	1.633	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	-0.13	Left	N/A	0	1	1	1:1	0	0	0.479	1.167	0.559	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	-0.12	Left	N/A	0	50	28	1:1	0	0	0.500	1.256	0.628	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.83	-0.19	Right	N/A	0	1	1	1:1	0	0	0.350	1.167	0.408	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.51	-0.10	Right	N/A	0	50	28	1:1	0	0	0.345	1.256	0.433	-
1 882.5	376500	DFT-s OFDM QPSK	40	20.5	20.14	-0.10	Rear	ON	0	1	1	1:1	0	0	1.3	1.086	1.412	-
1 882.5	376500	DFT-s OFDM QPSK	40	20.5	20.14	0.03	Rear	ON	0	108	54	1:1	0	0	1.27	1.086	1.379	-
1 882.5	376500	DFT-s OFDM QPSK	40	20.5	20.14	0.10	Front	ON	0	1	1	1:1	0	0	1.48	1.086	1.607	-
1 882.5	376500	DFT-s OFDM QPSK	40	20.5	20.14	0.07	Front	ON	0	108	54	1:1	0	0	1.39	1.086	1.510	-
1 882.5	376500	DFT-s OFDM QPSK	40	20.5	20.14	-0.04	Bottom	ON	0	1	1	1:1	0	0	1.44	1.086	1.564	-
1 882.5	376500	DFT-s OFDM QPSK	40	20.5	20.14	0.08	Bottom	ON	0	108	54	1:1	0	0	1.46	1.086	1.586	-
1 882.5	376500	CP QPSK	40	23.0	22.48	0.02	Front	OFF	1	1	1	1:1	0	6	1.1	1.127	1.240	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram									

NR Band n30Phablet SAR 10g- Ant. B

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.																	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	0.19	Rear	OFF	0	1	26	1:1	8	0.460	1.109	0.510	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	0.09	Rear	OFF	0	25	14	1:1	8	0.509	1.072	0.546	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	0.14	Front	OFF	0	1	26	1:1	6	0.636	1.109	0.705	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	0.07	Front	OFF	0	25	14	1:1	6	0.590	1.072	0.632	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	0.08	Bottom	OFF	0	1	26	1:1	11	0.743	1.109	0.824	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	-0.18	Bottom	OFF	0	25	14	1:1	11	0.737	1.072	0.790	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.55	-0.12	Left	N/A	0	1	50	1:1	0	0.769	1.109	0.853	-	
2 310	462000	DFT-s OFDM QPSK	10	24.0	23.70	-0.13	Left	N/A	0	25	27	1:1	0	0.690	1.072	0.740	-	
2 310	462000	DFT-s OFDM QPSK	10	22.0	20.73	0.19	Rear	ON	0	1	50	1:1	0	1.38	1.340	1.849	132	
2 310	462000	DFT-s OFDM QPSK	10	22.0	20.55	0.13	Rear	ON	0	25	27	1:1	0	1.37	1.396	1.913	133	
2 310	462000	DFT-s OFDM QPSK	10	22.0	20.73	0.11	Front	ON	0	1	50	1:1	0	0.962	1.340	1.289	-	
2 310	462000	DFT-s OFDM QPSK	10	22.0	20.55	0.15	Front	ON	0	25	27	1:1	0	0.819	1.396	1.143	-	
2 310	462000	DFT-s OFDM QPSK	10	22.0	20.73	-0.07	Bottom	ON	0	1	50	1:1	0	0.943	1.340	1.264	-	
2 310	462000	DFT-s OFDM QPSK	10	22.0	20.55	-0.13	Bottom	ON	0	25	27	1:1	0	0.931	1.396	1.300	-	
2 310	462000	CP QPSK	10	22.0	20.47	0.01	Rear	ON	0	1	1	1:1	0	1.3	1.422	1.849	-	
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram									

NR Band n41Phablet SAR 10g – Power class 3 (Lower Antenna)- Ant. B																	
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	25.5	25.00	0.19	Rear	OFF	0	1	1	1:1	8	0.118	1.122	0.132	-
2 592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	0.12	Rear	OFF	0	135	69	1:1	8	0.119	1.117	0.133	-
2 592.99	518598	DFT-s OFDM QPSK	100	25.5	25.00	0.16	Front	OFF	0	1	1	1:1	6	0.142	1.122	0.159	-
2 592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	0.03	Front	OFF	0	135	69	1:1	6	0.175	1.117	0.195	-
2 592.99	518598	DFT-s OFDM QPSK	100	25.5	25.00	0.19	Bottom	OFF	0	1	1	1:1	11	0.187	1.122	0.210	-
2 592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	0.17	Bottom	OFF	0	135	69	1:1	11	0.243	1.117	0.271	-
2 592.99	518598	DFT-s OFDM QPSK	100	25.5	25.00	0.17	Left	N/A	0	1	1	1:1	0	0.300	1.122	0.337	-
2 592.99	518598	DFT-s OFDM QPSK	100	25.5	25.02	0.12	Left	N/A	0	135	69	1:1	0	0.299	1.117	0.334	-
2 592.99	518598	DFT-s OFDM QPSK	100	21.5	21.30	0.18	Rear	ON	0	1	1	1:1	0	0.545	1.047	0.571	-
2 592.99	518598	DFT-s OFDM QPSK	100	21.5	21.30	0.16	Rear	ON	0	135	69	1:1	0	0.803	1.047	0.841	134
2 592.99	518598	DFT-s OFDM QPSK	100	21.5	21.30	0.11	Front	ON	0	1	1	1:1	0	0.333	1.047	0.349	-
2 592.99	518598	DFT-s OFDM QPSK	100	21.5	21.30	0.19	Front	ON	0	135	69	1:1	0	0.314	1.047	0.329	-
2 592.99	518598	DFT-s OFDM QPSK	100	21.5	21.30	0.04	Bottom	ON	0	1	1	1:1	0	0.511	1.047	0.535	-
2 592.99	518598	DFT-s OFDM QPSK	100	21.5	21.30	-0.13	Bottom	ON	0	135	69	1:1	0	0.458	1.047	0.480	-
2 592.99	518598	CP QPSK	100	21.5	21.32	0.02	Rear	ON	0	135	69	1:1	0	0.614	1.042	0.640	-
2 592.99	518598	DFT-s OFDM QPSK	100	21.5	21.30	0.16	Rear	ON	0	135	69	1:1	0	0.573	1.047	0.600	-
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 (PCS)Phablet SAR 10g- Ant. A																		
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	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																	
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.27	-0.08	Rear	OFF	0	1	1	1:1	01	8	1.11	1.054	1.170	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.07	Rear	OFF	0	108	54	1:1	01	8	1.11	1.109	1.231	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.05	Front	OFF	0	1	1	1:1	01	6	1.25	1.054	1.318	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.02	Front	OFF	0	108	54	1:1	01	6	1.25	1.109	1.386	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.05	Bottom	OFF	0	1	1	1:1	01	11	1.37	1.054	1.444	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.01	Bottom	OFF	0	108	54	1:1	01	11	1.29	1.109	1.431	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.27	-0.12	Left	N/A	0	1	1	1:1	01	0	0.542	1.054	0.571	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.07	Left	N/A	0	108	0	1:1	01	0	0.692	1.109	0.767	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.27	0.13	Right	N/A	0	1	1	1:1	01	0	0.421	1.054	0.444	-
1 745	349000	DFT-s OFDM QPSK	40	24.5	24.05	0.12	Right	N/A	0	108	0	1:1	01	0	0.528	1.109	0.586	-
1 745	349000	DFT-s OFDM QPSK	40	20.0	19.95	0.16	Rear	ON	0	1	1	1:1	01	0	1.45	1.012	1.467	-
1 745	349000	DFT-s OFDM QPSK	40	20.0	19.90	0.16	Rear	ON	0	108	0	1:1	01	0	1.23	1.023	1.258	-
1 745	349000	DFT-s OFDM QPSK	40	20.0	19.95	0.18	Front	ON	0	1	1	1:1	01	0	1.59	1.012	1.609	-
1 745	349000	DFT-s OFDM QPSK	40	20.0	19.90	0.18	Front	ON	0	108	0	1:1	01	0	1.63	1.023	1.667	-
1 745	349000	DFT-s OFDM QPSK	40	20.0	19.95	-0.13	Bottom	ON	0	1	1	1:1	01	0	1.61	1.012	1.629	-
1 745	349000	DFT-s OFDM QPSK	40	20.0	19.90	0.02	Bottom	ON	0	108	0	1:1	01	0	1.68	1.023	1.719	135
1 745	349000	CP QPSK	40	20.0	19.97	-0.03	Bottom	ON	0	1	1	1:1	01	0	0.997	1.007	1.004	-
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.																
5 300	60	802.11a	20	6	18.0	17.25	-0.10	Rear	Ant1	93.7	0	5.38	0.428	1.189	1.067	0.543	
5 300	60	802.11a	20	6	18.0	17.25	0.11	Front	Ant1	93.7	0	9.58	0.765	1.189	1.067	0.971	-
5 300	60	802.11a	20	6	18.0	17.25	-0.19	Left	Ant1	93.7	0	14.1	1.07	1.189	1.067	1.357	-
5 720	144	802.11a	20	6	18.0	17.68	0.03	Rear	Ant1	93.7	0	1.99	0.197	1.076	1.067	0.226	
5 720	144	802.11a	20	6	18.0	17.68	0.02	Front	Ant1	93.7	0	6.45	0.434	1.076	1.067	0.498	-
5 720	144	802.11a	20	6	18.0	17.68	-0.10	Left	Ant1	93.7	0	10.7	0.730	1.076	1.067	0.838	-
5 320	64	802.11a	20	6	18.0	16.80	0.01	Rear	Ant2	93.7	0	13.1	1.06	1.318	1.067	1.491	
5 320	64	802.11a	20	6	18.0	16.80	0.03	Front	Ant2	93.7	0	0.248	0.00783	1.318	1.067	0.011	-
5320	64	802.11a	20	6	18.0	16.80	0.11	Top	Ant2	93.7	0	0.645	0.056	1.318	1.067	0.079	-
5 720	144	802.11a	20	6	18.0	17.64	0.17	Rear	Ant2	93.7	0	20.1	1.63	1.086	1.067	1.889	136
5 720	144	802.11a	20	6	18.0	17.64	0.07	Front	Ant2	93.7	0	0.249	0.013	1.086	1.067	0.015	-
5 720	144	802.11a	20	6	18.0	17.64	-0.15	Top	Ant2	93.7	0	1.35	0.176	1.086	1.067	0.204	-
5 320	64	802.11a	20	6	21.0	20.02	-0.12	Rear	MIMO	93.7	0	6.67	0.584	1.253	1.067	0.781	-
5 320	64	802.11a	20	6	21.0	20.02	0.10	Front	MIMO	93.7	0	4.66	0.578	1.253	1.067	0.773	-
5 320	64	802.11a	20	6	21.0	20.02	0.04	Left	MIMO	93.7	0	7.43	0.889	1.253	1.067	1.189	-
5 320	64	802.11a	20	6	21.0	20.02	0.13	Top	MIMO	93.7	0	0.909	0.13	1.253	1.067	0.174	-
5 720	144	802.11a	20	6	21.0	20.67	-0.18	Rear	MIMO	93.7	0	21.8	1.57	1.079	1.067	1.808	-
5 720	144	802.11a	20	6	21.0	20.67	0.03	Front	MIMO	93.7	0	5.95	0.348	1.079	1.067	0.401	-
5 720	144	802.11a	20	6	21.0	20.67	-0.01	Left	MIMO	93.7	0	6.42	0.828	1.079	1.067	0.953	-
5 720	144	802.11a	20	6	21.0	20.67	0.11	Top	MIMO	93.7	0	1.14	0.190	1.079	1.067	0.219	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Hand 4.0 W/kg Averaged over 10 gram					

SISO 5 GHz WLAN Phablet SAR 10g–mmWave/RSDB																	
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.																
5 290	58	802.11ac	80	MCS0	14	13.41		Rear	Ant1	86.0	0	1.62		1.146	1.163		-
5 290	58	802.11ac	80	MCS0	14	13.41		Front	Ant1	86.0	0	3.09		1.146	1.163		-
5 290	58	802.11ac	80	MCS0	14	13.41	0.10	Left	Ant1	86.0	0	6.81	0.370	1.146	1.163	0.493	-
5610	122	802.11ac	80	MCS0	14	13.28		Rear	Ant1	86.0	0	0.527		1.180	1.163		-
5610	122	802.11ac	80	MCS0	14	13.28		Front	Ant1	86.0	0	1.56		1.180	1.163		-
5610	122	802.11ac	80	MCS0	14	13.28	0.09	Left	Ant1	86.0	0	2.32	0.271	1.180	1.163	0.372	-
5 290	58	802.11ac	80	MCS0	14	12.81	0.04	Rear	Ant2	86.0	0	2.94	0.311	1.315	1.163	0.476	-
5 290	58	802.11ac	80	MCS0	14	12.81		Front	Ant2	86.0	0	0		1.315	1.163		-
5 290	58	802.11ac	80	MCS0	14	12.81		Top	Ant2	86.0	0	0.051		1.315	1.163		-
5610	122	802.11ac	80	MCS0	14	13.46	0.01	Rear	Ant2	86.0	0	5.86	0.377	1.132	1.163	0.496	137
5610	122	802.11ac	80	MCS0	14	13.46		Front	Ant2	86.0	0	0.0375		1.132	1.163		-
5610	122	802.11ac	80	MCS0	14	13.46		Top	Ant2	86.0	0	0.0841		1.132	1.163		-

MOMO 5 GHz WLAN Phablet SAR10g – mmWave RSDB																	
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.																
5 290	58	802.11ac	80	MCS0	17.0	16.13	0.03	Rear	MIMO	86.0	10	8.35	0.550	1.222	1.163	0.782	138
5 290	58	802.11ac	80	MCS0	17.0	16.13	0.07	Front	MIMO	86.0	10	4.71	0.330	1.222	1.163	0.469	-
5 290	58	802.11ac	80	MCS0	17.0	16.13	-0.19	Left	MIMO	86.0	10	3.73	0.414	1.222	1.163	0.588	-
5 290	58	802.11ac	80	MCS0	17.0	16.13	0.10	Top	MIMO	86.0	10	0.553	0.060	1.222	1.163	0.085	-
5 610	122	802.11ac	80	MCS0	17.0	16.38	0.04	Rear	MIMO	86.0	10	8.43	0.546	1.153	1.163	0.732	-
5 610	122	802.11ac	80	MCS0	17.0	16.38	-0.01	Front	MIMO	86.0	10	2.44	0.240	1.153	1.163	0.322	-
5 610	122	802.11ac	80	MCS0	17.0	16.38	0.18	Left	MIMO	86.0	10	3.07	0.298	1.153	1.163	0.400	-
5 610	122	802.11ac	80	MCS0	17.0	16.38	0.11	Top	MIMO	86.0	10	0.493	0.066	1.153	1.163	0.089	-

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram
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- * Head condition during simultaneous conditions with 2.4GHz WLAN
- * Head condition during simultaneous conditions with mmWave and/or 2.4 GHz WLAN

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.
12. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and managetransmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance forwas assessed at the minimum of the time averaged power and the maximum output power for eachband/mode/exposure condition (DSI).

CDMA Notes:

1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCCKDB Publication 941225 D01v03r01.
3. CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policyin KDB Publication 941225 D01v03r01.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. Per FCC KDB Publication 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 for 1g evaluations then testin g at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is > $\frac{1}{2}$ dB, instead of the middle channel, the highest outputpower channel was used.

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 TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.

10. This device supports LTE Carrier Aggregation(CA) in Uplink for LTE 41C/5B/66B/66C/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 5, LTE Band 66, 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/5B/66B/66C/48C is \leq standalone LTE mode (without CA), SAR for LTE41C/5B/66B/66C/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. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
7. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report.
8. Per Oct. 2020 TCBC workshop notes(Dynamic Antenna Tuner), the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Please see the sec 17

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

Exposure condition	Band	WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO 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)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4	
Head SAR	EVDO BC10 (\$90S)	0.288	0.735	0.027	0.278	1.023	0.315	0.566	No
	EVDO BC0 (\$22H)	0.328	0.735	0.027	0.278	1.063	0.355	0.606	No
	PCS CDMA/EVDO	0.263	0.735	0.027	0.278	0.998	0.29	0.541	No
	GSM 850	0.079	0.735	0.027	0.278	0.814	0.106	0.357	No
	GPRS 850	0.191	0.735	0.027	0.278	0.926	0.218	0.469	No
	GSM 1900	0.173	0.735	0.027	0.278	0.908	0.200	0.451	No
	GPRS 1900	0.222	0.735	0.027	0.278	0.957	0.249	0.500	No
	UMTS 850	0.243	0.735	0.027	0.278	0.978	0.27	0.521	No
	UMTS 1700	0.274	0.735	0.027	0.278	1.009	0.301	0.552	No
	UMTS 1900	0.235	0.735	0.027	0.278	0.97	0.262	0.513	No
	LTE Band 7	0.150	0.735	0.027	0.278	0.885	0.177	0.428	No
	LTE Band 12	0.201	0.735	0.027	0.278	0.936	0.228	0.479	No
	LTE Band 13	0.278	0.735	0.027	0.278	1.013	0.305	0.556	No
	LTE Band 14	0.287	0.735	0.027	0.278	1.022	0.314	0.565	No
	LTE Band 25	0.142	0.735	0.027	0.278	0.877	0.169	0.420	No
	LTE Band 26 (5)	0.356	0.735	0.027	0.278	1.091	0.383	0.634	No
	LTE Band 30	0.142	0.735	0.027	0.278	0.877	0.169	0.420	No
	LTE Band 40 Low	0.007	0.735	0.027	0.278	0.742	0.034	0.285	No
	LTE Band 40 Upper	0.008	0.735	0.027	0.278	0.743	0.035	0.286	No
	LTE Band 41	0.202	0.735	0.027	0.278	0.937	0.229	0.48	No
	LTE Band 48	0.536	0.735	0.027	0.278	1.271	0.563	0.814	No
	LTE Band 66	0.272	0.735	0.027	0.278	1.007	0.299	0.550	No
	LTE Band 71	0.171	0.735	0.027	0.278	0.906	0.198	0.449	No
	NR Band n5	0.243	0.735	0.027	0.278	0.978	0.270	0.521	No
	NR Band n12	0.154	0.735	0.027	0.278	0.889	0.181	0.432	No
	NR Band n25	0.303	0.735	0.027	0.278	1.038	0.33	0.581	No
	NR Band n30	0.118	0.735	0.027	0.278	0.853	0.145	0.396	No
	NR Band n41 Low	0.080	0.735	0.027	0.278	0.815	0.107	0.358	No
NR Band n41 Upper	0.156	0.735	0.027	0.278	0.891	0.183	0.434	No	
NR Band n41 PC2 Upper	0.148	0.735	0.027	0.278	0.883	0.175	0.426	No	
NR Band n66	0.289	0.735	0.027	0.278	1.024	0.316	0.567	No	
NR Band n71	0.166	0.735	0.027	0.278	0.901	0.193	0.444	No	
NR Band n77 (PC3)	0.165	0.735	0.027	0.278	0.900	0.192	0.443	No	
NR Band n77(PC2)	0.151	0.735	0.027	0.278	0.886	0.178	0.429	No	

Simultaneous Transmission Summation Scenario with 5 GHz WLAN										
Exposure condition	Band	WWAN SAR	5 GHz WLAN Ant1 SAR	5 GHz WLAN Ant2 SAR	5 GHz WLAN MIMO 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)	(Yes/No)
		1	2	3	4	1+2	1+3	1+4		
Head SAR	EVDO BC10 (\$90S)	0.288	0.500	0.023	0.455	0.788	0.311	0.743	No	
	EVDO BC0 (\$22H)	0.328	0.500	0.023	0.455	0.828	0.351	0.783	No	
	PCS CDMA/EVDO	0.263	0.500	0.023	0.455	0.763	0.286	0.718	No	
	GSM 850	0.079	0.500	0.023	0.455	0.579	0.102	0.534	No	
	GPRS 850	0.191	0.500	0.023	0.455	0.691	0.214	0.646	No	
	GSM 1900	0.173	0.500	0.023	0.455	0.673	0.196	0.628	No	
	GPRS 1900	0.222	0.500	0.023	0.455	0.722	0.245	0.677	No	
	UMTS 850	0.243	0.500	0.023	0.455	0.743	0.266	0.698	No	
	UMTS 1700	0.274	0.500	0.023	0.455	0.774	0.297	0.729	No	
	UMTS 1900	0.235	0.500	0.023	0.455	0.735	0.258	0.69	No	
	LTE Band 7	0.150	0.500	0.023	0.455	0.65	0.173	0.605	No	
	LTE Band 12	0.201	0.500	0.023	0.455	0.701	0.224	0.656	No	
	LTE Band 13	0.278	0.500	0.023	0.455	0.778	0.301	0.733	No	
	LTE Band 14	0.287	0.500	0.023	0.455	0.787	0.310	0.742	No	
	LTE Band 25	0.142	0.500	0.023	0.455	0.642	0.165	0.597	No	
	LTE Band 26 (5)	0.356	0.500	0.023	0.455	0.856	0.379	0.811	No	
	LTE Band 30	0.142	0.500	0.023	0.455	0.642	0.165	0.597	No	
	LTE Band 40 Low	0.007	0.500	0.023	0.455	0.507	0.030	0.462	No	
	LTE Band 40 Upper	0.008	0.500	0.023	0.455	0.508	0.031	0.463	No	
	LTE Band 41	0.202	0.500	0.023	0.455	0.702	0.225	0.657	No	
	LTE Band 48	0.536	0.500	0.023	0.455	1.036	0.559	0.991	No	
	LTE Band 66	0.272	0.500	0.023	0.455	0.772	0.295	0.727	No	
	LTE Band 71	0.171	0.500	0.023	0.455	0.671	0.194	0.626	No	
	NR Band n5	0.243	0.500	0.023	0.455	0.743	0.266	0.698	No	
	NR Band n12	0.154	0.500	0.023	0.455	0.654	0.177	0.609	No	
	NR Band n25	0.303	0.500	0.023	0.455	0.803	0.326	0.758	No	
	NR Band n30	0.118	0.500	0.023	0.455	0.618	0.141	0.573	No	
	NR Band n41 Low	0.080	0.500	0.023	0.455	0.580	0.103	0.535	No	
	NR Band n41 Upper	0.156	0.500	0.023	0.455	0.656	0.179	0.611	No	
	NR Band n41 PC2 Upper	0.148	0.500	0.023	0.455	0.648	0.171	0.603	No	
NR Band n66	0.289	0.500	0.023	0.455	0.789	0.312	0.744	No		
NR Band n71	0.166	0.500	0.023	0.455	0.666	0.189	0.621	No		
NR Band n77(PC2)	0.165	0.500	0.023	0.455	0.665	0.188	0.620	No		
NR Band n77(PC2)	0.151	0.500	0.023	0.455	0.651	0.174	0.606	No		

Simultaneous Transmission Summation Scenario with 5 GHz RSDB WLAN&BT						
Exposure condition	Band	WWAN SAR	5 GHz WLAN MIMO RSDB SAR	Bluetooth SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2+3	
Head SAR	EVDO BC10 (\$90S)	0.288	0.455	0.459	1.202	No
	EVDO BC0 (\$22H)	0.328	0.455	0.459	1.242	No
	PCS CDMA/EVDO	0.263	0.455	0.459	1.177	No
	GSM 850	0.079	0.455	0.459	0.993	No
	GPRS 850	0.191	0.455	0.459	1.105	No
	GSM 1900	0.173	0.455	0.459	1.087	No
	GPRS 1900	0.222	0.455	0.459	1.136	No
	UMTS 850	0.243	0.455	0.459	1.157	No
	UMTS 1700	0.274	0.455	0.459	1.188	No
	UMTS 1900	0.235	0.455	0.459	1.149	No
	LTE Band 7	0.150	0.455	0.459	1.064	No
	LTE Band 12	0.201	0.455	0.459	1.115	No
	LTE Band 13	0.278	0.455	0.459	1.192	No
	LTE Band 14	0.287	0.455	0.459	1.201	No
	LTE Band 25	0.142	0.455	0.459	1.056	No
	LTE Band 26 (5)	0.356	0.455	0.459	1.270	No
	LTE Band 30	0.142	0.455	0.459	1.056	No
	LTE Band 40 Low	0.007	0.455	0.459	0.921	No
	LTE Band 40 Upper	0.008	0.455	0.459	0.922	No
	LTE Band 41	0.202	0.455	0.459	1.116	No
	LTE Band 48	0.536	0.455	0.459	1.450	No
	LTE Band 66	0.272	0.455	0.459	1.186	No
	LTE Band 71	0.171	0.455	0.459	1.085	No
	NR Band n5	0.243	0.455	0.459	1.157	No
	NR Band n12	0.154	0.455	0.459	1.068	No
	NR Band n25	0.303	0.455	0.459	1.217	No
	NR Band n30	0.118	0.455	0.459	1.032	No
	NR Band n41 Low	0.080	0.455	0.459	0.994	No
	NR Band n41 Upper	0.156	0.455	0.459	1.070	No
	NR Band n41 PC2 Upper	0.148	0.455	0.459	1.062	No
	NR Band n66	0.289	0.455	0.459	1.203	No
	NR Band n71	0.166	0.455	0.459	1.080	No
NR Band n77(PC2)	0.165	0.455	0.459	1.079	No	
NR Band n77(PC2)	0.151	0.455	0.459	1.065	No	

Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN&with 5 GHz WLAN						
Exposure condition	Band	WWAN SAR	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN MIMO RSDB SAR	∑ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2+3	
Head SAR	EVDO BC10 (\$90S)	0.288	0.070	0.455	0.813	No
	EVDO BC0 (\$22H)	0.328	0.070	0.455	0.853	No
	PCS CDMA/EVDO	0.263	0.070	0.455	0.788	No
	GSM 850	0.079	0.070	0.455	0.604	No
	GPRS 850	0.191	0.070	0.455	0.716	No
	GSM 1900	0.173	0.070	0.455	0.698	No
	GPRS 1900	0.222	0.070	0.455	0.747	No
	UMTS 850	0.243	0.070	0.455	0.768	No
	UMTS 1700	0.274	0.070	0.455	0.799	No
	UMTS 1900	0.235	0.070	0.455	0.760	No
	LTE Band 7	0.150	0.070	0.455	0.675	No
	LTE Band 12	0.201	0.070	0.455	0.726	No
	LTE Band 13	0.278	0.070	0.455	0.803	No
	LTE Band 14	0.287	0.070	0.455	0.812	No
	LTE Band 25	0.142	0.070	0.455	0.667	No
	LTE Band 26 (5)	0.356	0.070	0.455	0.881	No
	LTE Band 30	0.142	0.070	0.455	0.667	No
	LTE Band 40 Low	0.007	0.070	0.455	0.532	No
	LTE Band 40 Upper	0.008	0.070	0.455	0.533	No
	LTE Band 41	0.202	0.070	0.455	0.727	No
	LTE Band 48	0.536	0.070	0.455	1.061	No
	LTE Band 66	0.272	0.070	0.455	0.797	No
	LTE Band 71	0.171	0.070	0.455	0.696	No
	NR Band n5	0.243	0.070	0.455	0.768	No
	NR Band n12	0.154	0.070	0.455	0.679	No
	NR Band n25	0.303	0.070	0.455	0.828	No
	NR Band n30	0.118	0.070	0.455	0.643	No
	NR Band n41 Low	0.080	0.070	0.455	0.605	No
	NR Band n41 Upper	0.156	0.070	0.455	0.681	No
	NR Band n41 PC2 Upper	0.148	0.070	0.455	0.673	No
NR Band n66	0.289	0.070	0.455	0.814	No	
NR Band n71	0.166	0.070	0.455	0.691	No	
NR Band n77(PC2)	0.165	0.070	0.455	0.690	No	
NR Band n77(PC2)	0.151	0.070	0.455	0.676	No	

14.2 Body-Worn SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario with 2.4 GHz Ant. WLAN											
Exposure condition	Distance (mm)	Band	WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO SAR	∑ 1-g SAR	∑ 1-g SAR	∑ 1-g SAR	SPLSR	
			(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		
Body-worn	15	EVDO BC10 (§90S)	0.339	0.153	0.235	0.200	0.492	0.574	0.539	No	
		EVDO BC0 (§22H)	0.433	0.153	0.235	0.200	0.586	0.668	0.633	No	
		PCS CDMA/EVDO	1.072	0.153	0.235	0.200	1.225	1.307	1.272	No	
		GSM 850	0.247	0.153	0.235	0.200	0.400	0.482	0.447	No	
		GPRS 850	0.335	0.153	0.235	0.200	0.488	0.57	0.535	No	
		GSM 1900	0.502	0.153	0.235	0.200	0.655	0.737	0.702	No	
		GPRS 1900	0.711	0.153	0.235	0.200	0.864	0.946	0.911	No	
		UMTS 850	0.359	0.153	0.235	0.200	0.512	0.594	0.559	No	
		UMTS 1700	1.031	0.153	0.235	0.200	1.184	1.266	1.231	No	
		UMTS 1900	1.082	0.153	0.235	0.200	1.235	1.317	1.282	No	
		LTE Band 7	0.432	0.153	0.235	0.200	0.585	0.667	0.632	No	
		LTE Band 12	0.300	0.153	0.235	0.200	0.453	0.535	0.500	No	
		LTE Band 13	0.394	0.153	0.235	0.200	0.547	0.629	0.594	No	
		LTE Band 14	0.460	0.153	0.235	0.200	0.613	0.695	0.66	No	
		LTE Band 25	0.669	0.153	0.235	0.200	0.822	0.904	0.869	No	
		LTE Band 26 (5)	0.442	0.153	0.235	0.200	0.595	0.677	0.642	No	
		LTE Band 30	0.621	0.153	0.235	0.200	0.774	0.856	0.821	No	
		LTE Band 40 Low	0.052	0.153	0.235	0.200	0.205	0.287	0.252	No	
		LTE Band 40 Upper	0.055	0.153	0.235	0.200	0.208	0.29	0.255	No	
		LTE Band 41	0.450	0.153	0.235	0.200	0.603	0.685	0.650	No	
		LTE Band 48	0.160	0.153	0.235	0.200	0.313	0.395	0.360	No	
		LTE Band 66	1.053	0.153	0.235	0.200	1.206	1.288	1.253	No	
		LTE Band 71	0.279	0.153	0.235	0.200	0.432	0.514	0.479	No	
		NR Band n5	0.304	0.153	0.235	0.200	0.457	0.539	0.504	No	
		NR Band n12	0.274	0.153	0.235	0.200	0.427	0.509	0.474	No	
		NR Band n25	0.749	0.153	0.235	0.200	0.902	0.984	0.949	No	
		NR Band n30	0.431	0.153	0.235	0.200	0.584	0.666	0.631	No	
		NR Band n41 Low	0.190	0.153	0.235	0.200	0.343	0.425	0.390	No	
NR Band n41 Upper	0.081	0.153	0.235	0.200	0.234	0.316	0.281	No			
NR Band n41 PC2 Upper	0.047	0.153	0.235	0.200	0.200	0.282	0.247	No			
NR Band n66	0.966	0.153	0.235	0.200	1.119	1.201	1.166	No			
NR Band n71	0.258	0.153	0.235	0.200	0.411	0.493	0.458	No			
NR Band n77(PC3)	0.050	0.153	0.235	0.200	0.203	0.285	0.25	No			
NR Band n77(PC2)	0.092	0.153	0.235	0.200	0.245	0.327	0.292	No			

Simultaneous Transmission Summation Scenario with 5 GHz WLAN

Exposure condition	Distance (mm)	Band	WWAN SAR	5 GHz WLAN Ant1 SAR	5 GHz WLAN Ant2 SAR	5 GHz WLAN MIMO SAR	∑ 1-g SAR	∑ 1-g SAR	∑ 1-g SAR	SPLSR	
			(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		
Body-worn	15	EVDO BC10 (§90S)	0.339	0.122	0.688	0.577	0.461	1.027	0.916	No	
		EVDO BC0 (§22H)	0.433	0.122	0.688	0.577	0.555	1.121	1.010	No	
		PCS CDMA/EVD o	Rear	1.072	0.074	0.688	0.577	1.146	1.760	1.649	Yes(#1,6)
			Front	0.779	0.122	0.006	0.577	0.901	0.785	1.356	No
		GSM 850		0.247	0.122	0.688	0.577	0.369	0.935	0.824	No
		GPRS 850		0.335	0.122	0.688	0.577	0.457	1.023	0.912	No
		GSM 1900		0.502	0.122	0.688	0.577	0.624	1.19	1.079	No
		GPRS 1900		0.711	0.122	0.688	0.577	0.833	1.399	1.288	No
		UMTS 850		0.359	0.122	0.688	0.577	0.481	1.047	0.936	No
		UMTS 1700	Rear	1.031	0.074	0.688	0.577	1.105	1.719	1.608	Yes(#2,7)
			Front	1.007	0.122	0.006	0.128	1.129	1.013	1.135	No
		UMTS 1900	Rear	1.082	0.074	0.688	0.577	1.156	1.770	1.659	Yes(#3,8)
			Front	0.933	0.122	0.006	0.128	1.055	0.939	1.061	No
		LTE Band 7		0.432	0.122	0.688	0.577	0.554	1.120	1.009	No
		LTE Band 12		0.300	0.122	0.688	0.577	0.422	0.988	0.877	No
		LTE Band 13		0.394	0.122	0.688	0.577	0.516	1.082	0.971	No
		LTE Band 14		0.460	0.122	0.688	0.577	0.582	1.148	1.037	No
		LTE Band 25		0.669	0.122	0.688	0.577	0.791	1.357	1.246	No
		LTE Band 26 (5)		0.442	0.122	0.688	0.577	0.564	1.130	1.019	No
		LTE Band 30		0.621	0.122	0.688	0.577	0.743	1.309	1.198	No
		LTE Band 40 Low		0.052	0.122	0.688	0.577	0.174	0.740	0.629	No
		LTE Band 40 Upper		0.055	0.122	0.688	0.577	0.177	0.743	0.632	No
		LTE Band 41		0.450	0.122	0.688	0.577	0.572	1.138	1.027	No
		LTE Band 48		0.160	0.122	0.688	0.577	0.282	0.848	0.737	No
		LTE Band 66	Rear	1.053	0.074	0.688	0.577	1.127	1.741	1.630	Yes(#4,9)
			Front	0.884	0.122	0.006	0.128	1.006	0.890	1.012	No
		LTE Band 71		0.279	0.122	0.688	0.577	0.401	0.967	0.856	No
		NR Band n5		0.304	0.122	0.688	0.577	0.426	0.992	0.881	No
		NR Band n12		0.274	0.122	0.688	0.577	0.396	0.962	0.851	No
		NR Band n25		0.749	0.122	0.688	0.577	0.871	1.437	1.326	No
		NR Band n30		0.431	0.122	0.688	0.577	0.553	1.119	1.008	No
		NR Band n41 Low		0.190	0.122	0.688	0.577	0.312	0.878	0.767	No
		NR Band n41 Upper		0.081	0.122	0.688	0.577	0.203	0.769	0.658	No
NR Band n41 PC2 Upper		0.047	0.122	0.688	0.577	0.169	0.735	0.624	No		
NR Band n66	Rear	0.966	0.074	0.688	0.577	1.040	1.654	1.543	Yes(#5)		
	Front	0.776	0.122	0.006	0.128	0.898	0.782	0.904	No		
NR Band n71		0.258	0.122	0.688	0.577	0.380	0.946	0.835	No		
NR Band n77(PC3)		0.050	0.122	0.688	0.577	0.172	0.738	0.627	No		
NR Band n77(PC2)		0.092	0.122	0.688	0.577	0.214	0.780	0.669	No		

Simultaneous Transmission Summation Scenario with 5GHz WLAN &BT							
Exposure condition	Distance (mm)	Band	WWAN SAR	5 GHz WLAN MIMO SAR	Bluetooth SAR	Σ 1-g SAR	SPLSR
			(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
			1	2	3	1+2+3	
Body-worn	15	EVDO BC10 (\$90S)	0.339	0.577	0.060	0.976	No
		EVDO BC0 (\$22H)	0.433	0.577	0.060	1.070	No
		PCS CDMA /EVDO	Rear 1.072	0.577	0.060	1.709	Yes (#10)
			Front 0.779	0.128	0.060	0.967	No
		GSM 850	0.247	0.577	0.060	0.884	No
		GPRS 850	0.335	0.577	0.060	0.972	No
		GSM 1900	0.502	0.577	0.060	1.139	No
		GPRS 1900	0.711	0.577	0.060	1.348	No
		UMTS 850	0.359	0.577	0.060	0.996	No
		UMTS 1700	Rear 1.031	0.577	0.060	1.668	Yes (#11)
			Front 1.007	0.128	0.060	1.195	No
		UMTS 1900	Rear 1.082	0.577	0.060	1.719	Yes (#12)
			Front 0.933	0.128	0.060	1.121	No
		LTE Band 7	0.432	0.577	0.060	1.069	No
		LTE Band 12	0.300	0.577	0.060	0.937	No
		LTE Band 13	0.394	0.577	0.060	1.031	No
		LTE Band 14	0.460	0.577	0.060	1.097	No
		LTE Band 25	0.669	0.577	0.060	1.306	No
		LTE Band 26 (5)	0.442	0.577	0.060	1.079	No
		LTE Band 30	0.621	0.577	0.060	1.258	No
		LTE Band 40 Low	0.052	0.577	0.060	0.689	No
		LTE Band 40 Upper	0.055	0.577	0.060	0.692	No
		LTE Band 41	0.450	0.577	0.060	1.087	No
		LTE Band 48	0.160	0.577	0.060	0.797	No
		LTE Band 66	Rear 1.053	0.577	0.060	1.690	Yes (#13)
			Front 0.884	0.128	0.060	1.072	No
		LTE Band 71	0.279	0.577	0.060	0.916	No
		NR Band n5	0.304	0.577	0.060	0.941	No
		NR Band n12	0.274	0.577	0.060	0.911	No
		NR Band n25	0.749	0.577	0.060	1.386	No
		NR Band n30	0.431	0.577	0.060	1.068	No
		NR Band n41 Low	0.190	0.577	0.060	0.827	No
		NR Band n41 Upper	0.081	0.577	0.060	0.718	No
		NR Band n41 PC2 Upper	0.047	0.577	0.060	0.684	No
NR Band n66	Rear 0.966	0.577	0.060	1.603	Yes (#14)		
	Front 0.776	0.128	0.060	0.964	No		
NR Band n71	0.258	0.577	0.060	0.895	No		
NR Band n77(PC3)	0.050	0.577	0.060	0.687	No		
NR Band n77(PC2)	0.092	0.577	0.060	0.729	No		

Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN& 5GHz WLAN

Exposure condition	Distance (mm)	Band	WWAN SAR	2.4 GHz WLAN MIMO Ant.1 RSDB SAR	2.4 GHz WLAN MIMO Ant.2RSDB SAR	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN MIMO RSDB SAR	∑ 1-g SAR	∑ 1-g SAR	∑ 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	5	1+2+5	1+3+5	1+4+5		
Body-worn	15	EVDO BC10 (§90S)	0.339	0.094	0.107	0.110	0.209	0.642	0.655	0.658	No	
		EVDO BC0 (§22H)	0.433	0.094	0.107	0.110	0.209	0.736	0.749	0.752	No	
		PCS CDMA/EVDO	1.072	0.094	0.107	0.110	0.209	1.375	1.388	1.391	No	
		GSM 850	0.247	0.094	0.107	0.110	0.209	0.55	0.563	0.566	No	
		GPRS 850	0.335	0.094	0.107	0.110	0.209	0.638	0.651	0.654	No	
		GSM 1900	0.502	0.094	0.107	0.110	0.209	0.805	0.818	0.821	No	
		GPRS 1900	0.711	0.094	0.107	0.110	0.209	1.014	1.027	1.030	No	
		UMTS 850	0.359	0.094	0.107	0.110	0.209	0.662	0.675	0.678	No	
		UMTS 1700	1.031	0.094	0.107	0.110	0.209	1.334	1.347	1.350	No	
		UMTS 1900	1.082	0.094	0.107	0.110	0.209	1.385	1.398	1.401	No	
		LTE Band 7	0.432	0.094	0.107	0.110	0.209	0.735	0.748	0.751	No	
		LTE Band 12	0.300	0.094	0.107	0.110	0.209	0.603	0.616	0.619	No	
		LTE Band 13	0.394	0.094	0.107	0.110	0.209	0.697	0.71	0.713	No	
		LTE Band 14	0.460	0.094	0.107	0.110	0.209	0.763	0.776	0.779	No	
		LTE Band 25	0.669	0.094	0.107	0.110	0.209	0.972	0.985	0.988	No	
		LTE Band 26 (5)	0.442	0.094	0.107	0.110	0.209	0.745	0.758	0.761	No	
		LTE Band 30	0.621	0.094	0.107	0.110	0.209	0.924	0.937	0.940	No	
		LTE Band 40 Low	0.052	0.094	0.107	0.110	0.209	0.355	0.368	0.371	No	
		LTE Band 40 Upper	0.055	0.094	0.107	0.110	0.209	0.358	0.371	0.374	No	
		LTE Band 41	0.450	0.094	0.107	0.110	0.209	0.753	0.766	0.769	No	
		LTE Band 48	0.160	0.094	0.107	0.110	0.209	0.463	0.476	0.479	No	
		LTE Band 66	1.053	0.094	0.107	0.110	0.209	1.356	1.369	1.372	No	
		LTE Band 71	0.279	0.094	0.107	0.110	0.209	0.582	0.595	0.598	No	
		NR Band n5	0.304	0.094	0.107	0.110	0.209	0.607	0.62	0.623	No	
		NR Band n12	0.274	0.094	0.107	0.110	0.209	0.577	0.59	0.593	No	
		NR Band n25	0.749	0.094	0.107	0.110	0.209	1.052	1.065	1.068	No	
		NR Band n30	0.431	0.094	0.107	0.110	0.209	0.734	0.747	0.750	No	
		NR Band n41 Low	0.190	0.094	0.107	0.110	0.209	0.493	0.506	0.509	No	
		NR Band n41 Upper	0.081	0.094	0.107	0.110	0.209	0.384	0.397	0.400	No	
		NR Band n41 PC2 Upper	0.047	0.094	0.107	0.110	0.209	0.35	0.363	0.366	No	
NR Band n66	0.966	0.094	0.107	0.110	0.209	1.269	1.282	1.285	No			
NR Band n71	0.258	0.094	0.107	0.110	0.209	0.561	0.574	0.577	No			
NR Band n77(PC3)	0.050	0.094	0.107	0.110	0.209	0.353	0.366	0.369	No			
NR Band n77(PC2)	0.092	0.094	0.107	0.110	0.209	0.395	0.408	0.411	No			

14.3 Hotspot SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Scenario with 2.4 GHz WLAN & BT (10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
EVDO BC10 (\$90S)	Rear	0.746	0.326	0.535	0.471	1.072	1.281	1.217	No
	Front	0.432	0.306	0.000	0.238	0.738	0.432	0.670	No
	Left	0.174	0.610		0.500	0.784	0.174	0.674	No
	Right	0.376				0.376	0.376	0.376	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.378				0.378	0.378	0.378	No
EVDO BC0 (\$22H)	Rear	0.919	0.326	0.535	0.471	1.245	1.454	1.390	No
	Front	0.552	0.306	0.000	0.238	0.858	0.552	0.790	No
	Left	0.167	0.610		0.500	0.777	0.167	0.667	No
	Right	0.436				0.436	0.436	0.436	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.455				0.455	0.455	0.455	No
PCS CDMA	Rear	0.636	0.326	0.535	0.471	0.962	1.171	1.107	No
	Front	0.490	0.306	0.000	0.238	0.796	0.490	0.728	No
	Left	0.346	0.610		0.500	0.956	0.346	0.846	No
	Right	0.285				0.285	0.285	0.285	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	1.091				1.091	1.091	1.091	No
GPRS 850	Rear	0.794	0.326	0.535	0.471	1.120	1.329	1.265	No
	Front	0.542	0.306	0.000	0.238	0.848	0.542	0.780	No
	Left	0.162	0.610		0.500	0.772	0.162	0.662	No
	Right	0.442				0.442	0.442	0.442	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.442				0.442	0.442	0.442	No
GPRS 1900	Rear	0.379	0.326	0.535	0.471	0.705	0.914	0.850	No
	Front	0.346	0.306	0.000	0.238	0.652	0.346	0.584	No
	Left	0.081	0.610		0.500	0.691	0.081	0.581	No
	Right	0.075				0.075	0.075	0.075	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.754				0.754	0.754	0.754	No
UMTS 850	Rear	0.726	0.326	0.535	0.471	1.052	1.261	1.197	No
	Front	0.572	0.306	0.000	0.238	0.878	0.572	0.810	No
	Left	0.211	0.610		0.500	0.821	0.211	0.711	No
	Right	0.471				0.471	0.471	0.471	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.459				0.459	0.459	0.459	No
UMTS 1700	Rear	0.526	0.326	0.535	0.471	0.852	1.061	0.997	No
	Front	0.558	0.306	0.000	0.238	0.864	0.558	0.796	No
	Left	0.086	0.610		0.500	0.696	0.086	0.586	No
	Right	0.063				0.063	0.063	0.063	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.768				0.768	0.768	0.768	No
UMTS 1700	Rear	0.429	0.326	0.535	0.471	0.755	0.964	0.900	No
	Front	0.469	0.306	0.000	0.238	0.775	0.469	0.707	No
	Left	0.081	0.610		0.500	0.691	0.081	0.581	No
	Right	0.061				0.061	0.061	0.061	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.990				0.990	0.990	0.990	No

Simultaneous Transmission Scenario with 2.4 GHz WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	∑ 1-g SAR	∑ 1-g SAR	∑ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
LTE Band 7	Rear	0.445	0.326	0.535	0.471	0.771	0.980	0.916	No
	Front	0.365	0.306	0.000	0.238	0.671	0.365	0.603	No
	Left	0.198	0.610		0.500	0.808	0.198	0.698	No
	Right								No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.679				0.679	0.679	0.679	No
LTE Band 12	Rear	0.548	0.326	0.535	0.471	0.874	1.083	1.019	No
	Front	0.323	0.306	0.000	0.238	0.629	0.323	0.561	No
	Left	0.219	0.610		0.500	0.829	0.219	0.719	No
	Right	0.344				0.344	0.344	0.344	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.304				0.304	0.304	0.304	No
LTE Band 13	Rear	0.734	0.326	0.535	0.471	1.060	1.269	1.205	No
	Front	0.505	0.306	0.000	0.238	0.811	0.505	0.743	No
	Left	0.283	0.610		0.500	0.893	0.283	0.783	No
	Right	0.470				0.470	0.470	0.470	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.402				0.402	0.402	0.402	No
LTE Band 14	Rear	0.867	0.326	0.535	0.471	1.193	1.402	1.338	No
	Front	0.481	0.306	0.000	0.238	0.787	0.481	0.719	No
	Left	0.305	0.610		0.500	0.915	0.305	0.805	No
	Right	0.460				0.460	0.460	0.460	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.459				0.459	0.459	0.459	No
LTE Band 25	Rear	0.390	0.326	0.535	0.471	0.716	0.925	0.861	No
	Front	0.358	0.306	0.000	0.238	0.664	0.358	0.596	No
	Left	0.061	0.610		0.500	0.671	0.061	0.561	No
	Right	0.079				0.079	0.079	0.079	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.863				0.863	0.863	0.863	No
LTE Band 26 (5)	Rear	0.881	0.326	0.535	0.471	1.207	1.416	1.352	No
	Front	0.714	0.306	0.000	0.238	1.020	0.714	0.952	No
	Left	0.171	0.610		0.500	0.781	0.171	0.671	No
	Right	0.504				0.504	0.504	0.504	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.501				0.501	0.501	0.501	No

Simultaneous Transmission Scenario with 2.4 GHz WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	∑ 1-g SAR	∑ 1-g SAR	∑ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
LTE Band 30	Rear	0.372	0.326	0.535	0.471	0.698	0.907	0.843	No
	Front	0.429	0.306	0.000	0.238	0.735	0.429	0.667	No
	Left	0.166	0.610		0.500	0.776	0.166	0.666	No
	Right								No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.898				0.898	0.898	0.898	No
LTE Band 40 Low	Rear	0.097	0.326	0.535	0.471	0.423	0.632	0.568	No
	Front	0.117	0.306	0.000	0.238	0.423	0.117	0.355	No
	Left	0.034	0.610		0.500	0.644	0.034	0.534	No
	Right								No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.190				0.190	0.190	0.190	No
LTE Band 40 Upper	Rear	0.106	0.326	0.535	0.471	0.432	0.641	0.577	No
	Front	0.112	0.306	0.000	0.238	0.418	0.112	0.350	No
	Left	0.032	0.610		0.500	0.642	0.032	0.532	No
	Right								No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.214				0.214	0.214	0.214	No
LTE Band 41	Rear	0.299	0.326	0.535	0.471	0.625	0.834	0.770	No
	Front	0.296	0.306	0.000	0.238	0.602	0.296	0.534	No
	Left	0.174	0.610		0.500	0.784	0.174	0.674	No
	Right								No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.910				0.910	0.910	0.910	No
LTE Band 48	Rear	0.233	0.326	0.535	0.471	0.619	0.828	0.764	No
	Front	0.290	0.306	0.000	0.238	0.596	0.290	0.528	No
	Left		0.610		0.500	0.610	0.000	0.500	No
	Right	0.561				0.561	0.561	0.561	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom								No
LTE Band 66	Rear	0.434	0.326	0.535	0.471	0.760	0.969	0.905	No
	Front	0.329	0.306	0.000	0.238	0.635	0.329	0.567	No
	Left	0.080	0.610		0.500	0.690	0.080	0.580	No
	Right	0.093				0.093	0.093	0.093	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.817				0.817	0.817	0.817	No
LTE Band 71	Rear	0.472	0.326	0.535	0.471	0.798	1.007	0.943	No
	Front	0.268	0.306	0.000	0.238	0.574	0.268	0.506	No
	Left	0.129	0.610		0.500	0.739	0.129	0.629	No
	Right	0.236				0.236	0.236	0.236	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.277				0.277	0.277	0.277	No

Simultaneous Transmission Scenario with 2.4 GHz WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	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)	
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
NR Band n5	Rear	0.663	0.326	0.535	0.471	0.989	1.198	1.134	No
	Front	0.347	0.306	0.000	0.238	0.653	0.347	0.585	No
	Left	0.154	0.610		0.500	0.764	0.154	0.654	No
	Right	0.376				0.376	0.376	0.376	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.327				0.327	0.327	0.327	No
NR Band n12	Rear	0.433	0.326	0.535	0.471	0.759	0.968	0.904	No
	Front	0.284	0.306	0.000	0.238	0.590	0.284	0.522	No
	Left	0.142	0.610		0.500	0.752	0.142	0.642	No
	Right	0.243				0.243	0.243	0.243	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.203				0.203	0.203	0.203	No
NR Band n25	Rear	0.442	0.326	0.535	0.471	0.768	0.977	0.913	No
	Front	0.419	0.306	0.000	0.238	0.725	0.419	0.657	No
	Left	0.071	0.610		0.500	0.681	0.071	0.571	No
	Right	0.077				0.077	0.077	0.077	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.878				0.878	0.878	0.878	No
NR Band n30	Rear	0.428	0.326	0.535	0.471	0.754	0.963	0.899	No
	Front	0.451	0.306	0.000	0.238	0.757	0.451	0.689	No
	Left	0.185	0.610		0.500	0.795	0.185	0.685	No
	Right								No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.823				0.823	0.823	0.823	No
NR Band n41 (Low)	Rear	0.129	0.039	1.112	0.884	0.168	1.241	1.013	No
	Front	0.107	0.067	0.002	0.083	0.174	0.109	0.190	No
	Left	0.071	0.203		0.200	0.274	0.071	0.271	No
	Right								No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	0.266				0.266	0.266	0.266	No
NR Band n41 (Upper)	Rear	0.123	0.326	0.535	0.471	0.449	0.658	0.594	No
	Front	0.066	0.306	0.000	0.238	0.449	0.066	0.304	No
	Left		0.610		0.500	0.372	0.000	0.500	No
	Right	0.029				0.610	0.029	0.029	No
	Top	0.071		0.065	0.073	0.029	0.136	0.144	No
	Bottom								No
NR Band n41 (PC2)	Rear	0.115	0.326	0.535	0.471	0.441	0.650	0.586	No
	Front	0.087	0.306	0.000	0.238	0.441	0.087	0.325	No
	Left		0.610		0.500	0.393	0.000	0.500	No
	Right	0.049				0.610	0.049	0.049	No
	Top	0.104		0.065	0.073	0.049	0.169	0.177	No
	Bottom								No

Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN(10mm)									
Band		WWAN SAR	2.4 GHz WLAN Ant.1 SAR	2.4 GHz WLAN Ant.2 SAR	2.4 GHz WLAN MIMO	\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)	
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
NR Band n66	Rear	0.517	0.326	0.535	0.471	0.843	1.052	0.988	No
	Front	0.463	0.306	0.000	0.238	0.769	0.463	0.701	No
	Left	0.127	0.610		0.500	0.737	0.127	0.627	No
	Right	0.102				0.102	0.102	0.102	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	1.059				1.059	1.059	1.059	No
NR Band n71	Rear	0.424	0.326	0.535	0.471	0.750	0.959	0.895	No
	Front	0.266	0.306	0.000	0.238	0.572	0.266	0.504	No
	Left	0.125	0.610		0.500	0.735	0.125	0.625	No
	Right	0.223				0.223	0.223	0.223	No
	Top			0.065	0.073	0.000	0.065	0.073	No
	Bottom	0.224				0.224	0.224	0.224	No
NR Band n77 (PC3)	Rear	0.044	0.326	0.535	0.471	0.370	0.579	0.515	No
	Front	0.079	0.306	0.000	0.238	0.385	0.079	0.317	No
	Left		0.610		0.500	0.610	0.000	0.500	No
	Right	0.266				0.266	0.266	0.266	No
	Top	0.022		0.065	0.073	0.022	0.087	0.095	No
	Bottom								No
NR Band n77 (PC2)	Rear	0.134	0.326	0.535	0.471	0.460	0.669	0.605	No
	Front	0.200	0.306	0.000	0.238	0.506	0.200	0.438	No
	Left		0.610		0.500	0.610	0.000	0.500	No
	Right	0.338				0.338	0.338	0.338	No
	Top	0.046		0.065	0.073	0.046	0.111	0.119	No
	Bottom								No

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)									
Band		WWAN SAR (W/kg)	5 GHz WLAN Ant.1 SAR (W/kg)	5 GHz WLAN Ant.2 SAR(W/kg)	5 GHz WLAN MIMO SAR(W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
EVDO BC10 (\$90S)	Rear	0.746	0.039	1.112	0.884	0.785	1.858	1.630	Yes (#15,26)
	Front	0.432	0.067	0.002	0.083	0.499	0.434	0.515	No
	Left	0.174	0.203		0.200	0.377	0.174	0.374	No
	Right	0.376				0.376	0.376	0.376	No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	0.378				0.378	0.378	0.378	No
EVDO BC0 (\$22H)	Rear	0.919	0.039	1.112	0.884	0.958	2.031	1.803	Yes (#16,27)
	Front	0.552	0.067	0.002	0.083	0.619	0.554	0.635	No
	Left	0.167	0.203		0.200	0.370	0.167	0.367	No
	Right	0.436				0.436	0.436	0.436	No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	0.455				0.455	0.455	0.455	No
PCS CDMA	Rear	0.636	0.039	1.112	0.884	0.675	1.748	1.520	Yes (#17)
	Front	0.490	0.067	0.002	0.083	0.557	0.492	0.573	No
	Left	0.346	0.203		0.200	0.549	0.346	0.546	No
	Right	0.285				0.285	0.285	0.285	No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	1.091				1.091	1.091	1.091	No
GPRS 850	Rear	0.794	0.039	1.112	0.884	0.833	1.906	1.678	Yes (#18,28)
	Front	0.542	0.067	0.002	0.083	0.609	0.544	0.625	No
	Left	0.162	0.203		0.200	0.365	0.162	0.362	No
	Right	0.442				0.442	0.442	0.442	No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	0.442				0.442	0.442	0.442	No
GPRS 1900	Rear	0.379	0.039	1.112	0.884	0.418	1.491	1.263	No
	Front	0.346	0.067	0.002	0.083	0.413	0.348	0.429	No
	Left	0.081	0.203		0.200	0.284	0.081	0.281	No
	Right	0.075				0.075	0.075	0.075	No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	0.754				0.754	0.754	0.754	No
UMTS 850	Rear	0.726	0.039	1.112	0.884	0.765	1.838	1.610	Yes (#19,29)
	Front	0.572	0.067	0.002	0.083	0.639	0.574	0.655	No
	Left	0.211	0.203		0.200	0.414	0.211	0.411	No
	Right	0.471				0.471	0.471	0.471	No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	0.459				0.459	0.459	0.459	No
UMTS 1700	Rear	0.526	0.039	1.112	0.884	0.565	1.638	1.410	Yes (#20)
	Front	0.558	0.067	0.002	0.083	0.625	0.560	0.641	No
	Left	0.086	0.203		0.200	0.289	0.086	0.286	No
	Right	0.063				0.063	0.063	0.063	No
	Top			0.180	0.190	0.000	0.180	0.190	No
	Bottom	0.768				0.768	0.768	0.768	No
UMTS 1900	Rear	0.429	0.039	1.112	0.884	0.468	1.541	1.313	No
	Front	0.469	0.067	0.002	0.083	0.536	0.471	0.552	No
	Left	0.081	0.203		0.200	0.284	0.081	0.281	No
	Right	0.061				0.061	0.061	0.061	No
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.990				0.990	0.990	0.990	NO

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)									
Band		WWAN SAR (W/kg)	5GHz WLAN Ant.1 SAR (W/kg)	5GHz WLAN Ant.2 SAR(W/kg)	5GHz WLAN MIMO SAR(W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
LTE Band 7	Rear	0.445	0.039	1.112	0.884	0.484	1.557	1.329	No
	Front	0.365	0.067	0.002	0.083	0.432	0.367	0.448	NO
	Left	0.198	0.203		0.200	0.401	0.198	0.398	NO
	Right								NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.679				0.679	0.679	0.679	NO
LTE Band 12	Rear	0.548	0.039	1.112	0.884	0.587	1.660	1.432	Yes(#21)
	Front	0.323	0.067	0.002	0.083	0.390	0.325	0.406	NO
	Left	0.219	0.203		0.200	0.422	0.219	0.419	NO
	Right	0.344				0.344	0.344	0.344	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.304				0.304	0.304	0.304	NO
LTE Band 13	Rear	0.734	0.039	1.112	0.884	0.773	1.846	1.618	Yes(#22,30)
	Front	0.505	0.067	0.002	0.083	0.572	0.507	0.588	NO
	Left	0.283	0.203		0.200	0.486	0.283	0.483	NO
	Right	0.470				0.470	0.470	0.470	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.402				0.402	0.402	0.402	NO
LTE Band 14	Rear	0.867	0.039	1.112	0.884	0.906	1.979	1.751	Yes(#23,31)
	Front	0.481	0.067	0.002	0.083	0.548	0.483	0.564	NO
	Left	0.305	0.203		0.200	0.508	0.305	0.505	NO
	Right	0.460				0.460	0.460	0.460	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.459				0.459	0.459	0.459	NO
LTE Band 25	Rear	0.390	0.039	1.112	0.884	0.429	1.502	1.274	NO
	Front	0.358	0.067	0.002	0.083	0.425	0.360	0.441	NO
	Left	0.061	0.203		0.200	0.264	0.061	0.261	NO
	Right	0.079				0.079	0.079	0.079	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.863				0.863	0.863	0.863	NO
LTE Band 26(5)	Rear	0.881	0.039	1.112	0.884	0.920	1.993	1.765	Yes(#24,32)
	Front	0.714	0.067	0.002	0.083	0.781	0.716	0.797	NO
	Left	0.171	0.203		0.200	0.374	0.171	0.371	NO
	Right	0.504				0.504	0.504	0.504	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.501				0.501	0.501	0.501	NO

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)

Band		WWAN SAR (W/kg)	5GHz WLAN Ant.1 SAR (W/kg)	5GHz WLAN Ant.2 SAR(W/kg)	5GHz WLAN MIMO SAR(W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
LTE Band 30	Rear	0.372	0.039	1.112	0.884	0.411	1.484	1.256	NO
	Front	0.429	0.067	0.002	0.083	0.496	0.431	0.512	NO
	Left	0.166	0.203		0.200	0.369	0.166	0.366	NO
	Right								NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.898				0.898	0.898	0.898	NO
LTE Band 40 Low	Rear	0.097	0.039	1.112	0.884	0.136	1.209	0.981	NO
	Front	0.117	0.067	0.002	0.083	0.184	0.119	0.200	NO
	Left	0.034	0.203		0.200	0.237	0.034	0.234	NO
	Right								NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.190				0.190	0.190	0.190	NO
LTE Band 40 Upper	Rear	0.106	0.039	1.112	0.884	0.145	1.218	0.990	NO
	Front	0.112	0.067	0.002	0.083	0.179	0.114	0.195	NO
	Left	0.032	0.203		0.200	0.235	0.032	0.232	NO
	Right								NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.214				0.214	0.214	0.214	NO
LTE Band 41	Rear	0.299	0.039	1.112	0.884	0.338	1.411	1.183	NO
	Front	0.296	0.067	0.002	0.083	0.363	0.298	0.379	NO
	Left	0.174	0.203		0.200	0.377	0.174	0.374	NO
	Right								NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.910				0.910	0.910	0.910	NO
LTE Band 48	Rear	0.233	0.039	1.112	0.884	0.332	1.345	1.117	NO
	Front	0.290	0.067	0.002	0.083	0.357	0.292	0.373	NO
	Left		0.203		0.200	0.203	0.000	0.200	NO
	Right	0.561				0.561	0.561	0.561	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom								NO
LTE Band 66	Rear	0.434	0.039	1.112	0.884	0.473	1.546	1.318	NO
	Front	0.329	0.067	0.002	0.083	0.396	0.331	0.412	NO
	Left	0.080	0.203		0.200	0.283	0.080	0.280	NO
	Right	0.093				0.093	0.093	0.093	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.817				0.817	0.817	0.817	NO
LTE Band 71	Rear	0.472	0.039	1.112	0.884	0.511	1.584	1.356	NO
	Front	0.268	0.067	0.002	0.083	0.335	0.270	0.351	NO
	Left	0.129	0.203		0.200	0.332	0.129	0.329	NO
	Right	0.236				0.236	0.236	0.236	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.277				0.277	0.277	0.277	NO

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)									
Band		WWAN SAR (W/kg)	5GHz WLAN Ant.1 SAR (W/kg)	5GHz WLAN Ant.2 SAR(W/kg)	5GHz WLAN MIMO SAR(W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
NR Band n5	Rear	0.663	0.039	1.112	0.884	0.702	1.775	1.547	Yes(#25)
	Front	0.347	0.067	0.002	0.083	0.414	0.349	0.430	NO
	Left	0.154	0.203		0.200	0.357	0.154	0.354	NO
	Right	0.376				0.376	0.376	0.376	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.327				0.327	0.327	0.327	NO
NR Band n12	Rear	0.433	0.039	1.112	0.884	0.472	1.545	1.317	NO
	Front	0.284	0.067	0.002	0.083	0.351	0.286	0.367	NO
	Left	0.142	0.203		0.200	0.345	0.142	0.342	NO
	Right	0.243				0.243	0.243	0.243	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.203				0.203	0.203	0.203	NO
NR Band n25	Rear	0.442	0.039	1.112	0.884	0.481	1.554	1.326	NO
	Front	0.419	0.067	0.002	0.083	0.486	0.421	0.502	NO
	Left	0.071	0.203		0.200	0.274	0.071	0.271	NO
	Right	0.077				0.077	0.077	0.077	NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.878				0.878	0.878	0.878	NO
NR Band n30	Rear	0.428	0.039	1.112	0.884	0.467	1.540	1.312	NO
	Front	0.451	0.067	0.002	0.083	0.518	0.453	0.534	NO
	Left	0.185	0.203		0.200	0.388	0.185	0.385	NO
	Right								NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.823				0.823	0.823	0.823	NO
NR Band n41 (Low)	Rear	0.129	0.039	1.112	0.884	0.168	1.241	1.013	NO
	Front	0.107	0.067	0.002	0.083	0.174	0.109	0.190	NO
	Left	0.071	0.203		0.200	0.274	0.071	0.271	NO
	Right								NO
	Top			0.180	0.190	0.000	0.180	0.190	NO
	Bottom	0.266				0.266	0.266	0.266	NO
NR Band n41 (Upper)	Rear	0.123	0.039	1.112	0.884	0.162	1.235	1.007	NO
	Front	0.058	0.067	0.002	0.083	0.125	0.060	0.141	NO
	Left		0.203		0.200	0.203	0.000	0.200	NO
	Right	0.024				0.024	0.024	0.024	NO
	Top	0.062		0.180	0.190	0.062	0.242	0.252	NO
	Bottom								NO
NR Band n41 (PC2)	Rear	0.115	0.039	1.112	0.884	0.154	1.227	0.999	NO
	Front	0.081	0.067	0.002	0.083	0.148	0.083	0.164	NO
	Left		0.203		0.200	0.203	0.000	0.200	NO
	Right	0.046				0.046	0.046	0.046	NO
	Top	0.097		0.180	0.190	0.097	0.277	0.287	NO
	Bottom								NO

Simultaneous Transmission Scenario with 5 GHz WLAN(10mm)

Band		WWAN SAR (W/kg)	5GHz WLAN Ant.1 SAR (W/kg)	5GHz WLAN Ant.2 SAR(W/kg)	5GHz WLAN MIMO SAR(W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	∑ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
NR Band n66	Rear	0.517	0.039	1.112	0.884	0.556	0.556	1.401	NO
	Front	0.463	0.067	0.002	0.083	0.530	0.530	0.546	NO
	Left	0.127	0.203		0.200	0.330	0.330	0.327	NO
	Right	0.102				0.102	0.102	0.102	NO
	Top			0.180	0.190	0.000	0.000	0.190	NO
	Bottom	1.059				1.059	1.059	1.059	NO
NR Band n77 (PC3)	Rear	0.424	0.039	1.112	0.884	0.463	0.463	1.308	NO
	Front	0.266	0.067	0.002	0.083	0.333	0.333	0.349	NO
	Left	0.125	0.203		0.200	0.328	0.328	0.325	NO
	Right	0.223				0.223	0.223	0.223	NO
	Top			0.180	0.190	0.000	0.000	0.190	NO
	Bottom	0.224				0.224	0.224	0.224	NO
NR Band n77 (PC2)	Rear	0.044	0.039	1.112	0.884	0.083	1.156	0.928	NO
	Front	0.079	0.067	0.002	0.083	0.146	0.081	0.162	NO
	Left		0.203		0.200	0.203	0.000	0.200	NO
	Right	0.266				0.266	0.266	0.266	NO
	Top	0.022		0.180	0.190	0.022	0.202	0.212	NO
	Bottom								NO
NR Band n77 (PC3)	Rear	0.134	0.039	1.112	0.884	0.173	1.246	1.018	NO
	Front	0.200	0.067	0.002	0.083	0.267	0.202	0.283	NO
	Left		0.203		0.200	0.203	0.000	0.200	NO
	Right	0.338				0.338	0.338	0.338	NO
	Top	0.046		0.180	0.190	0.046	0.226	0.236	NO
	Bottom								NO

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & BT (10mm)						
Band		WWAN SAR (W/kg)	5GHz WLAN MIMO SAR	BT SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
EVDO BC10 (\$90S)	Rear	0.746	0.884	0.148	1.778	Yes(#33)
	Front	0.432	0.083	0.149	0.664	NO
	Left	0.174	0.200	0.221	0.595	NO
	Right	0.376			0.376	NO
	Top		0.190		0.190	NO
	Bottom	0.378			0.378	NO
EVDO BC0 (\$22H)	Rear	0.919	0.884	0.148	1.951	Yes(#34)
	Front	0.552	0.083	0.149	0.784	NO
	Left	0.167	0.200	0.221	0.588	NO
	Right	0.436			0.436	NO
	Top		0.190		0.190	NO
	Bottom	0.455			0.455	NO
PCS CDMA	Rear	0.636	0.884	0.148	1.668	Yes(#35)
	Front	0.490	0.083	0.149	0.722	NO
	Left	0.346	0.200	0.221	0.767	NO
	Right	0.285			0.285	NO
	Top		0.190		0.190	NO
	Bottom	1.091			1.091	NO
GPRS 850	Rear	0.794	0.884	0.148	1.826	Yes(#36)
	Front	0.542	0.083	0.149	0.774	NO
	Left	0.162	0.200	0.221	0.583	NO
	Right	0.442			0.442	NO
	Top		0.190		0.190	NO
	Bottom	0.442			0.442	NO
GPRS 1900	Rear	0.379	0.884	0.148	1.411	NO
	Front	0.346	0.083	0.149	0.578	NO
	Left	0.081	0.200	0.221	0.502	NO
	Right	0.075			0.075	NO
	Top		0.190		0.190	NO
	Bottom	0.754			0.754	NO
UMTS 850	Rear	0.726	0.884	0.148	1.758	Yes(#37)
	Front	0.572	0.083	0.149	0.804	NO
	Left	0.211	0.200	0.221	0.632	NO
	Right	0.471			0.471	NO
	Top		0.190		0.190	NO
	Bottom	0.459			0.459	NO
UMTS 1700	Rear	0.526	0.884	0.148	1.558	NO
	Front	0.558	0.083	0.149	0.790	NO
	Left	0.086	0.200	0.221	0.507	NO
	Right	0.063			0.063	NO
	Top		0.190		0.190	NO
	Bottom	0.768			0.768	NO
UMTS 1900	Rear	0.429	0.884	0.148	1.461	NO
	Front	0.469	0.083	0.149	0.701	NO
	Left	0.081	0.200	0.221	0.502	NO
	Right	0.061			0.061	NO
	Top		0.190		0.190	NO
	Bottom	0.990			0.990	NO

Simultaneous Transmission Scenario with 5 GHz MIMOWLAN&BT(10mm)						
Band		WWAN SAR (W/kg)	5GHz WLAN MIMO SAR	BT SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
LTE Band 7	Rear	0.445	0.884	0.148	1.477	NO
	Front	0.365	0.083	0.149	0.597	NO
	Left	0.198	0.200	0.221	0.619	NO
	Right					NO
	Top		0.190		0.190	NO
	Bottom	0.679			0.679	NO
LTE Band 12	Rear	0.548	0.884	0.148	1.580	NO
	Front	0.323	0.083	0.149	0.555	NO
	Left	0.219	0.200	0.221	0.640	NO
	Right	0.344			0.344	NO
	Top		0.190		0.190	NO
	Bottom	0.304			0.304	NO
LTE Band 13	Rear	0.734	0.884	0.148	1.766	Yes(#38)
	Front	0.505	0.083	0.149	0.737	NO
	Left	0.283	0.200	0.221	0.704	NO
	Right	0.470			0.470	NO
	Top		0.190		0.190	NO
	Bottom	0.402			0.402	NO
LTE Band 14	Rear	0.867	0.884	0.148	1.899	Yes(#39)
	Front	0.481	0.083	0.149	0.713	NO
	Left	0.305	0.200	0.221	0.726	NO
	Right	0.460			0.460	NO
	Top		0.190		0.190	NO
	Bottom	0.459			0.459	NO
LTE Band 25	Rear	0.390	0.884	0.148	1.422	NO
	Front	0.358	0.083	0.149	0.590	NO
	Left	0.061	0.200	0.221	0.482	NO
	Right	0.079			0.079	NO
	Top		0.190		0.190	NO
	Bottom	0.863			0.863	NO
LTE Band 26(5)	Rear	0.881	0.884	0.148	1.913	Yes(#40)
	Front	0.714	0.083	0.149	0.946	NO
	Left	0.171	0.200	0.221	0.592	NO
	Right	0.504			0.504	NO
	Top		0.190		0.190	NO
	Bottom	0.501			0.501	NO

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & BT (10mm)						
Band		WWAN SAR (W/kg)	5GHz WLAN MIMO SAR	BT SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
LTE Band 30	Rear	0.372	0.884	0.148	1.404	NO
	Front	0.429	0.083	0.149	0.661	NO
	Left	0.166	0.200	0.221	0.587	NO
	Right					NO
	Top		0.190		0.190	NO
	Bottom	0.898			0.898	NO
LTE Band 40 Low	Rear	0.097	0.884	0.148	1.129	NO
	Front	0.117	0.083	0.149	0.349	NO
	Left	0.034	0.200	0.221	0.455	NO
	Right				0.000	NO
	Top		0.190		0.190	NO
	Bottom	0.190			0.190	NO
LTE Band 40 Upper	Rear	0.106	0.884	0.148	1.138	NO
	Front	0.112	0.083	0.149	0.344	NO
	Left	0.032	0.200	0.221	0.453	NO
	Right				0.000	NO
	Top		0.190		0.190	NO
	Bottom	0.214			0.214	NO
LTE Band 41	Rear	0.299	0.884	0.148	1.331	NO
	Front	0.296	0.083	0.149	0.528	NO
	Left	0.174	0.200	0.221	0.595	NO
	Right				0.000	NO
	Top		0.190		0.190	NO
	Bottom	0.910			0.910	NO
LTE Band 48	Rear	0.233	0.884	0.148	1.265	NO
	Front	0.290	0.083	0.149	0.522	NO
	Left		0.200	0.221	0.421	NO
	Right	0.561			0.561	NO
	Top		0.190		0.190	NO
	Bottom					NO
LTE Band 66	Rear	0.434	0.884	0.148	1.466	NO
	Front	0.329	0.083	0.149	0.561	NO
	Left	0.080	0.200	0.221	0.501	NO
	Right	0.093			0.093	NO
	Top		0.190		0.190	NO
	Bottom	0.817			0.817	NO
LTE Band 71	Rear	0.472	0.884	0.148	1.504	NO
	Front	0.268	0.083	0.149	0.500	NO
	Left	0.129	0.200	0.221	0.550	NO
	Right	0.236			0.236	NO
	Top		0.190		0.190	NO
	Bottom	0.277			0.277	NO

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & BT (10mm)						
Band		WWAN SAR (W/kg)	5GHz WLAN MIMO SAR	BT SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
NR Band n5	Rear	0.663	0.884	0.148	1.695	Yes (#41)
	Front	0.347	0.083	0.149	0.579	NO
	Left	0.154	0.200	0.221	0.575	NO
	Right	0.376			0.376	NO
	Top		0.190		0.190	NO
	Bottom	0.327			0.327	NO
NR Band n12	Rear	0.433	0.884	0.148	1.465	NO
	Front	0.284	0.083	0.149	0.516	NO
	Left	0.142	0.200	0.221	0.563	NO
	Right	0.243			0.243	NO
	Top		0.190		0.190	NO
	Bottom	0.203			0.203	NO
NR Band n25	Rear	0.442	0.884	0.148	1.474	NO
	Front	0.419	0.083	0.149	0.651	NO
	Left	0.071	0.200	0.221	0.492	NO
	Right	0.077			0.077	NO
	Top		0.190		0.190	NO
	Bottom	0.878			0.878	NO
NR Band n30	Rear	0.428	0.884	0.148	1.460	NO
	Front	0.451	0.083	0.149	0.683	NO
	Left	0.185	0.200	0.221	0.606	NO
	Right					NO
	Top		0.190		0.190	NO
	Bottom	0.823			0.823	NO
NR Band n41 (Low)	Rear	0.129	0.884	0.148	1.161	NO
	Front	0.107	0.083	0.149	0.339	NO
	Left	0.071	0.200	0.221	0.492	NO
	Right					NO
	Top		0.190		0.190	NO
	Bottom	0.266			0.266	NO
NR Band n41 (Upper)	Rear	0.123	0.884	0.148	1.155	NO
	Front	0.066	0.083	0.149	0.298	NO
	Left		0.200	0.221	0.421	NO
	Right	0.029			0.029	NO
	Top	0.071	0.190		0.261	NO
	Bottom					NO
NR Band n41 (PC2)	Rear	0.115	0.884	0.148	1.147	NO
	Front	0.087	0.083	0.149	0.319	NO
	Left		0.200	0.221	0.421	NO
	Right	0.049			0.049	NO
	Top	0.104	0.190		0.294	NO
	Bottom					NO

Simultaneous Transmission Scenario with 5 GHz MIMO WLAN & BT (10mm)						
Band		WWAN SAR (W/kg)	5GHz WLAN MIMO SAR	BT SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
NR Band n66	Rear	0.517	0.884	0.148	1.549	NO
	Front	0.463	0.083	0.149	0.695	NO
	Left	0.127	0.200	0.221	0.548	NO
	Right	0.102			0.102	NO
	Top		0.190		0.190	NO
	Bottom	1.059			1.059	NO
NR Band n71	Rear	0.424	0.884	0.148	1.456	NO
	Front	0.266	0.083	0.149	0.498	NO
	Left	0.125	0.200	0.221	0.546	NO
	Right	0.223			0.223	NO
	Top		0.190		0.190	NO
	Bottom	0.224			0.224	NO
NR Band n77 (PC3)	Rear	0.044	0.884	0.148	1.076	NO
	Front	0.079	0.083	0.149	0.311	NO
	Left		0.200	0.221	0.421	NO
	Right	0.266			0.266	NO
	Top	0.022	0.190		0.212	NO
	Bottom					NO
NR Band n77 (PC2)	Rear	0.134	0.884	0.148	1.166	NO
	Front	0.200	0.083	0.149	0.432	NO
	Left		0.200	0.221	0.421	NO
	Right	0.338			0.338	NO
	Top	0.046	0.190		0.236	NO
	Bottom					NO

Simultaneous Transmission Scenario with 2.4 GHz MIMOWLAN & 5 GHz MIMOWLAN (10mm)						
Band		WWAN SAR (W/kg)	2.4 GHz WLAN MIMO RSDB SAR	5GHz WLAN MIMO RSDB SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
EVDO BC10 (\$90S)	Rear	0.746	0.175	0.315	1.236	NO
	Front	0.432	0.130	0.026	0.588	NO
	Left	0.174	0.406	0.069	0.649	NO
	Right	0.376			0.376	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.378			0.378	NO
EVDO BC0 (\$22H)	Rear	0.919	0.175	0.315	1.409	NO
	Front	0.552	0.130	0.026	0.708	NO
	Left	0.167	0.406	0.069	0.642	NO
	Right	0.436			0.436	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.455			0.455	NO
PCS CDMA	Rear	0.636	0.175	0.315	1.126	NO
	Front	0.490	0.130	0.026	0.646	NO
	Left	0.346	0.406	0.069	0.821	NO
	Right	0.285			0.285	NO
	Top		0.050	0.015	0.065	NO
	Bottom	1.091			1.091	NO
GPRS 850	Rear	0.794	0.175	0.315	1.284	NO
	Front	0.542	0.130	0.026	0.698	NO
	Left	0.162	0.406	0.069	0.637	NO
	Right	0.442			0.442	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.442			0.442	NO
GPRS 1900	Rear	0.379	0.175	0.315	0.869	NO
	Front	0.346	0.130	0.026	0.502	NO
	Left	0.081	0.406	0.069	0.556	NO
	Right	0.075			0.075	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.754			0.754	NO
UMTS 850	Rear	0.726	0.175	0.315	1.216	NO
	Front	0.572	0.130	0.026	0.728	NO
	Left	0.211	0.406	0.069	0.686	NO
	Right	0.471			0.471	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.459			0.459	NO
UMTS 1700	Rear	0.526	0.175	0.315	1.016	NO
	Front	0.558	0.130	0.026	0.714	NO
	Left	0.086	0.406	0.069	0.561	NO
	Right	0.063			0.063	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.768			0.768	NO
UMTS 1900	Rear	0.429	0.175	0.315	0.919	NO
	Front	0.469	0.130	0.026	0.625	NO
	Left	0.081	0.406	0.069	0.556	NO
	Right	0.061			0.061	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.990			0.990	NO

Simultaneous Transmission Scenario with 2.4 GHz MIMOWLAN & 5 GHz MIMOWLAN (10mm)						
Band		WWAN SAR (W/kg)	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN MIMO RSDB SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
LTE Band 7	Rear	0.445	0.175	0.315	0.935	NO
	Front	0.365	0.130	0.026	0.521	NO
	Left	0.198	0.406	0.069	0.673	NO
	Right					NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.679			0.679	NO
LTE Band 12	Rear	0.548	0.175	0.315	1.038	NO
	Front	0.323	0.130	0.026	0.479	NO
	Left	0.219	0.406	0.069	0.694	NO
	Right	0.344			0.344	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.304			0.304	NO
LTE Band 13	Rear	0.734	0.175	0.315	1.224	NO
	Front	0.505	0.130	0.026	0.661	NO
	Left	0.283	0.406	0.069	0.758	NO
	Right	0.470			0.470	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.402			0.402	NO
LTE Band 14	Rear	0.867	0.175	0.315	1.357	NO
	Front	0.481	0.130	0.026	0.637	NO
	Left	0.305	0.406	0.069	0.780	NO
	Right	0.460			0.460	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.459			0.459	NO
LTE Band 25	Rear	0.390	0.175	0.315	0.880	NO
	Front	0.358	0.130	0.026	0.514	NO
	Left	0.061	0.406	0.069	0.536	NO
	Right	0.079			0.079	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.863			0.863	NO
LTE Band 26 (5)	Rear	0.881	0.175	0.315	1.371	NO
	Front	0.714	0.130	0.026	0.870	NO
	Left	0.171	0.406	0.069	0.646	NO
	Right	0.504			0.504	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.501			0.501	NO

Simultaneous Transmission Scenario with 2.4 GHz MIMOWLAN & 5 GHz MIMOWLAN (10mm)						
Band		WWAN SAR (W/kg)	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN MIMO RSDB SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
LTE Band 30	Rear	0.372	0.175	0.315	0.862	NO
	Front	0.429	0.130	0.026	0.585	NO
	Left	0.166	0.406	0.069	0.641	NO
	Right					NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.898			0.898	NO
LTE Band 40 Low	Rear	0.097	0.175	0.315	0.587	NO
	Front	0.117	0.130	0.026	0.273	NO
	Left	0.034	0.406	0.069	0.509	NO
	Right					NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.190			0.190	NO
LTE Band 40 Upper	Rear	0.106	0.175	0.315	0.596	NO
	Front	0.112	0.130	0.026	0.268	NO
	Left	0.032	0.406	0.069	0.507	NO
	Right				0.000	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.214			0.214	NO
LTE Band 41	Rear	0.299	0.175	0.315	0.789	NO
	Front	0.296	0.130	0.026	0.452	NO
	Left	0.174	0.406	0.069	0.649	NO
	Right					NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.910			0.910	NO
LTE Band 48	Rear	0.233	0.175	0.315	0.723	NO
	Front	0.290	0.130	0.026	0.446	NO
	Left		0.406	0.069	0.475	NO
	Right	0.561			0.561	NO
	Top		0.050	0.015	0.065	NO
	Bottom					NO
LTE Band 66	Rear	0.434	0.175	0.315	0.924	NO
	Front	0.329	0.130	0.026	0.485	NO
	Left	0.080	0.406	0.069	0.555	NO
	Right	0.093			0.093	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.817			0.817	NO
LTE Band 71	Rear	0.472	0.175	0.315	0.962	NO
	Front	0.268	0.130	0.026	0.424	NO
	Left	0.129	0.406	0.069	0.604	NO
	Right	0.236			0.236	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.277			0.277	NO

Simultaneous Transmission Scenario with 2.4 GHz MIMOWLAN & 5 GHz MIMOWLAN (10mm)						
Band		WWAN SAR (W/kg)	2.4 GHz WLAN MIMO RSDB SAR	5GHz WLAN MIMO RSDB SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
NR Band n5	Rear	0.663	0.175	0.315	1.153	NO
	Front	0.347	0.130	0.026	0.503	NO
	Left	0.154	0.406	0.069	0.629	NO
	Right	0.376			0.376	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.327			0.327	NO
NR Band n12	Rear	0.433	0.175	0.315	0.923	NO
	Front	0.284	0.130	0.026	0.440	NO
	Left	0.142	0.406	0.069	0.617	NO
	Right	0.243			0.243	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.203			0.203	NO
NR Band n25	Rear	0.442	0.175	0.315	0.932	NO
	Front	0.419	0.130	0.026	0.575	NO
	Left	0.071	0.406	0.069	0.546	NO
	Right	0.077			0.077	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.878			0.878	NO
NR Band n30	Rear	0.428	0.175	0.315	0.918	NO
	Front	0.451	0.130	0.026	0.607	NO
	Left	0.185	0.406	0.069	0.660	NO
	Right					NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.823			0.823	NO
NR Band n41 (Low)	Rear	0.129	0.175	0.315	0.619	NO
	Front	0.107	0.130	0.026	0.263	NO
	Left	0.071	0.406	0.069	0.546	NO
	Right					NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.266			0.266	NO
NR Band n41 (Upper)	Rear	0.123	0.175	0.315	0.613	NO
	Front	0.066	0.130	0.026	0.222	NO
	Left		0.406	0.069	0.475	NO
	Right	0.029			0.029	NO
	Top	0.071	0.050	0.015	0.136	NO
	Bottom					NO
NR Band n41 (PC2)	Rear	0.115	0.175	0.315	0.605	NO
	Front	0.087	0.130	0.026	0.243	NO
	Left		0.406	0.069	0.475	NO
	Right	0.049			0.049	NO
	Top	0.104	0.050	0.015	0.169	NO
	Bottom				0.626	NO

Simultaneous Transmission Scenario with 2.4 GHz MIMOWLAN & 5 GHz MIMOWLAN (10mm)						
Band		WWAN SAR (W/kg)	2.4 GHz WLAN MIMO RSDB SAR	5 GHz WLAN MIMO RSDB SAR	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	1+2+3	(Yes/No)
NR Band n66	Rear	0.517	0.175	0.315	1.007	NO
	Front	0.463	0.130	0.026	0.619	NO
	Left	0.127	0.406	0.069	0.602	NO
	Right	0.102			0.102	NO
	Top		0.050	0.015	0.065	NO
	Bottom	1.059			1.059	NO
NR Band n71	Rear	0.424	0.175	0.315	0.914	NO
	Front	0.266	0.130	0.026	0.422	NO
	Left	0.125	0.406	0.069	0.600	NO
	Right	0.223			0.223	NO
	Top		0.050	0.015	0.065	NO
	Bottom	0.224			0.224	NO
NR Band n77 (PC3)	Rear	0.044	0.175	0.315	0.534	NO
	Front	0.079	0.130	0.026	0.235	NO
	Left		0.406	0.069	0.475	NO
	Right	0.266			0.266	NO
	Top	0.022	0.050	0.015	0.087	NO
	Bottom					NO
NR Band n77 (PC2)	Rear	0.134	0.175	0.315	0.624	NO
	Front	0.200	0.130	0.026	0.356	NO
	Left		0.406	0.069	0.475	NO
	Right	0.338			0.338	NO
	Top	0.046	0.050	0.015	0.111	NO
	Bottom					NO

14.4 Phablet SAR Simultaneous Transmission Analysis

Simultaneous Transmission Scenario with 5G WLAN Phablet									
Band		WWAN SAR (W/kg)	5 GHz WLAN Ant 1. SAR (W/kg)	5 GHz WLAN Ant 2. SAR (W/kg)	5 GHz WLAN MIMOSAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
PCS CDMA	Rear	2.382	0.543	1.889	1.808	2.925	4.271	4.190	Yes(#42,45)
	Front	2.110	0.971	0.015	0.773	3.081	2.125	2.883	NO
	Left	0.674	1.357		1.189	2.031	0.674	1.863	NO
	Right	0.333				0.333	0.333	0.333	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	2.674				2.674	2.674	2.674	NO
GSM 1900	Rear	1.357	0.543	1.889	1.808	1.900	3.246	3.165	NO
	Front	1.440	0.971	0.015	0.773	2.411	1.455	2.213	NO
	Left	0.709	1.357		1.189	2.066	0.709	1.898	NO
	Right	0.538				0.538	0.538	0.538	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	2.349				2.349	2.349	2.349	NO
UMTS 1700	Rear	1.437	0.543	1.889	1.808	1.980	3.326	3.245	NO
	Front	1.763	0.971	0.015	0.773	2.734	1.778	2.536	NO
	Left	0.660	1.357		1.189	2.017	0.660	1.849	NO
	Right	0.491				0.491	0.491	0.491	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.977				1.977	1.977	1.977	NO
UMTS 1900	Rear	1.205	0.543	1.889	1.808	1.748	3.094	3.013	NO
	Front	1.319	0.971	0.015	0.773	2.290	1.334	2.092	NO
	Left	0.646	1.357		1.189	2.003	0.646	1.835	NO
	Right	0.464				0.464	0.464	0.464	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.681				1.681	1.681	1.681	NO
LTE Band 7	Rear	1.827	0.543	1.889	1.808	2.370	3.716	3.635	NO
	Front	1.301	0.971	0.015	0.773	2.272	1.316	2.074	NO
	Left	1.033	1.357		1.189	2.390	1.033	2.222	NO
	Right								NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.457				1.457	1.457	1.457	NO
LTE Band 25	Rear	1.332	0.543	1.889	1.808	1.875	3.221	3.140	NO
	Front	1.427	0.971	0.015	0.773	2.398	1.442	2.200	NO
	Left	0.598	1.357		1.189	1.955	0.598	1.787	NO
	Right	0.488				0.488	0.488	0.488	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.750				1.750	1.750	1.750	NO
LTE Band 30	Rear	2.485	0.543	1.889	1.808	3.028	4.374	4.293	Yes (#43,46)
	Front	1.424	0.971	0.015	0.773	2.395	1.439	2.197	NO
	Left	1.211	1.357		1.189	2.568	1.211	2.400	NO
	Right								NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.439				1.439	1.439	1.439	NO

Simultaneous Transmission Scenario with 5G WLAN Phablet									
Band		WWAN SAR (W/kg)	5 GHz WLAN Ant 1. SAR (W/kg)	5 GHz WLAN Ant 2. SAR (W/kg)	5 GHz WLAN MIMOSAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	Σ 1-g SAR (W/kg)	SPLSR
		1	2	3	4	1+2	1+3	1+4	(Yes/No)
LTE Band 41	Rear	2.212	0.543	1.889	1.808	2.755	4.101	4.020	Yes(#44,47)
	Front	1.269	0.971	0.015	0.773	2.240	1.284	2.042	NO
	Left	0.699	1.357		1.189	2.056	0.699	1.888	NO
	Right								NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.571				1.571	1.571	1.571	NO
LTE Band 66	Rear	1.424	0.543	1.889	1.808	1.967	3.313	3.232	NO
	Front	1.727	0.971	0.015	0.773	2.698	1.742	2.500	NO
	Left	0.677	1.357		1.189	2.034	0.677	1.866	NO
	Right	0.492				0.492	0.492	0.492	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.774				1.774	1.774	1.774	NO
NR Band n25	Rear	1.412	0.543	1.889	1.808	1.955	3.301	3.220	NO
	Front	1.774	0.971	0.015	0.773	2.745	1.789	2.547	NO
	Left	0.628	1.357		1.189	1.985	0.628	1.817	NO
	Right	0.433				0.433	0.433	0.433	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.633				1.633	1.633	1.633	NO
NR Band n30	Rear	1.913	0.543	1.889	1.808	2.456	3.802	3.721	NO
	Front	1.289	0.971	0.015	0.773	2.260	1.304	2.062	NO
	Left	0.853	1.357		1.189	2.210	0.853	2.042	NO
	Right								NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.300				1.300	1.300	1.300	NO
NR Band n41	Rear	0.841	0.543	1.889	1.808	1.384	2.730	2.649	NO
	Front	0.349	0.971	0.015	0.773	1.320	0.364	1.122	NO
	Left	0.337	1.357		1.189	1.694	0.337	1.526	NO
	Right								NO
	Top			0.204	0.219	0.000	0.204	0.219	NO
	Bottom	0.535				0.535	0.535	0.535	NO
NR Band n66	Rear	1.467	0.543	1.889	1.808	2.010	3.356	3.275	NO
	Front	1.667	0.971	0.015	0.773	2.638	1.682	2.440	NO
	Left	0.767	1.357		1.189	2.124	0.767	1.956	NO
	Right	0.586				0.586	0.586	0.586	NO
	Top			0.204	0.219		0.204	0.219	NO
	Bottom	1.719				1.719	1.719	1.719	NO

14.4 SAR to Peak Location Separation Ratio (SPLSR)

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

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

Where:

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

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

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

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

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

for 1g SAR and for 10g SAR

below simultaneous transmission summations need to be calculated SPLSR.

14.4.1 SPLSR Evaluation

Peak location for SAR Rear side(Active)

Mode/Band	X(mm)	Y(mm)	Z(mm)	Reported SAR [W/kg]
CDMA PCS	1.60	-78.90	0.64	1.072
WCDMA 4	4.50	-79.00	-1.26	1.031
WCDMA 2	3.00	-77.50	-1.30	1.082
LTE 66	4.40	-73.10	0.55	1.053
NR n66	0.00	-74.40	-1.87	0.966
WLAN 5GHz Ant2	12.00	66.00	0.00	0.688
WLAN 5GHz MIMO	12.00	65.00	-1.76	0.577
BT	35.40	18.40	0.41	0.060
CDMA BC10	20.90	-74.80	-0.87	0.746
CDMA BC0	16.20	-74.80	-0.85	0.919
CDMA PCS	-15.10	-80.50	0.66	0.636
GSM850	22.50	-70.10	-0.97	0.794
WCDMA 5	13.20	-59.80	-0.98	0.726
WCDMA 4	7.50	-80.30	-1.44	0.526
LTE 12	19.40	-73.30	2.74	0.548
LTE 13	19.40	-73.30	0.86	0.734
LTE 14	16.40	-71.66	-0.55	0.867
LTE 26(5)	18.10	-69.90	-0.87	0.881
NR n5	17.90	-68.50	-1.18	0.663
WLAN 5GHz Ant2	7.00	64.00	-0.03	1.112
WLAN 5GHz MIMO	6.00	62.80	-1.76	0.884
BT	34.80	20.40	0.42	0.148
CDMA PCS	20.1	-77.4	1.13	2.382
LTE 30	19.2	-80.60	0.52	2.485
LTE 41	28.0	-72.6	-1.23	2.212
WLAN 5GHz Ant2	11.2	60.4	3.01	1.889
WLAN 5GHz MIMO	9.4	61.6	-1.49	1.808

14.4.2 SAR to Peak Location Ratio (SPLSR) Figures

Body-worn

CDMA PCS SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.072	0.688	1.760	145.27	0.016	#1

WCDMA Band 4 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.031	0.688	1.719	145.2	0.016	#2

WCDMA Band 2 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.082	0.688	1.77	143.79	0.016	#3

LTE Band 66 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.053	0.688	1.741	139.31	0.016	#4

NR Band n66 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.966	0.688	1.654	140.92	0.015	#5

CDMA PCS SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.072	0.577	1.649	144.30	0.013	#6

WCDMA Band 4 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.031	0.577	1.608	144.2	0.014	#7

WCDMA Band 2 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.082	0.577	1.659	142.78	0.015	#8

LTE Band 66 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
1.053	0.577	1.630	138.33	0.015	#9

CDMA PCS SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR (W/kg)	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
1	2	3	1+2+3	1+2	1+3	2+3	1+2	1+3	2+3	
1.072	0.577	0.06	1.709	144.3	103.0	52.19	0.015	0.012	0.009	#10

WCDMA Band 4 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
1	2	3	1+2+3	1+2	1+3	2+3	1+2	1+3	2+3	
1.031	0.577	0.060	1.668	144.2	102.20	52.19	0.014	0.011	0.009	#11

WCDMA Band 2 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
1	2	3	1+2+3	1+2	1+3	2+3	1+2	1+3	2+3	
1.082	0.577	0.060	1.719	142.78	101.24	52.19	0.015	0.012	0.009	#12

LTE Band 66 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
1	2	3	1+2+3	1+2	1+3	2+3	1+2	1+3	2+3	
1.053	0.577	0.06	1.690	138.33	96.61	52.19	0.015	0.012	0.009	#13

NR Band n66 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
1	2	3	1+2+3	1+2	1+3	2+3	1+2	1+3	2+3	
0.966	0.577	0.060	1.603	139.92	99.35	52.19	0.014	0.009	0.009	#14

Hotspot

CDMA BC10 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.746	1.112	1.858	139.5	0.018	#15

CDMA BC0 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.919	1.112	2.031	139.11	0.021	#16

CDMA BC1 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.636	1.112	1.748	146.18	0.016	#17

GSM850 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.794	1.112	1.906	135.00	0.019	#18

WCDMA Band 5 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.726	1.112	1.838	123.96	0.02	#19

WCDMA Band 4 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.526	1.112	1.638	144.31	0.017	#20

LTE Band 12 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.548	1.112	1.66	137.89	0.016	#21

LTE Band 13 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.734	1.112	1.846	137.86	0.018	#22

LTE Band 14 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.867	1.112	1.979	135.93	0.02	#23

LTE Band 26(5) SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.881	1.112	1.993	134.36	0.02	#24

NR Band n5 SAR 1g (W/kg)	5GHz WLAN Ant2 SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.663	1.112	1.775	132.95	0.018	#25

CDMA BC 10 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.746	0.884	1.630	138.41	0.015	#26

CDMA BC 0 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.919	0.884	1.803	137.98	0.018	#27

GSM 850 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.794	0.884	1.678	133.92	0.016	#28

WCDMA Band 5 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.726	0.884	1.610	122.91	0.017	#29

LTE Band13 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.734	0.884	1.618	136.78	0.017	#30

LTE Band14 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.867	0.884	1.751	134.81	0.017	#31

LTE Band26(5) SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	Sum 1g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
0.881	0.884	1.765	133.25	0.017	#32

CDMA BC10 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.746	0.884	0.148	1.778	138.41	96.22	51.3	0.015	0.009	0.02	#33

CDMA BC0 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.919	0.884	0.148	1.951	137.98	97.01	51.3	0.018	0.011	0.02	#34

CDMA BC0 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Seperation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.636	0.884	0.148	1.668	144.87	112.56	51.3	0.013	0.006	0.02	#35

GSM850 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Separation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.794	0.884	0.148	1.826	133.92	91.34	51.3	0.016	0.01	0.02	#36

WCDMA Band 5 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Separation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.726	0.884	0.148	1.758	122.81	83.07	51.3	0.017	0.01	0.02	#37

LTE 13 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Separation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.734	0.884	0.148	1.766	136.78	94.96	51.3	0.015	0.009	0.02	#38

LTE 14 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Separation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.867	0.884	0.148	1.899	134.81	93.83	51.3	0.017	0.011	0.02	#39

LTE Band 26(5) SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Separation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.881	0.884	0.148	1.913	133.2	93.48	51.3	0.017	0.01	0.02	#40

NR Band n5 SAR 1g (W/kg)	5GHz WLAN MIMO SAR 1g (W/kg)	BT SAR 1g (W/kg)	Sum 1g SAR	Peak SAR Separation Distance (mm)			SPLSR			Plot No
				1+2+3	1+2	1+3	2+3	1+2	1+3	
0.663	0.884	0.148	1.695	131.84	90.51	51.3	0.015	0.008	0.02	#41

Phablet

CDMA BC1 SAR 10g (W/kg)	WLAN 5GHz Ant2 SAR 10g (W/kg)	Sum 10g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
2.382	1.889	4.271	138.1	0.064	42

LTE 30 SAR 10g (W/kg)	WLAN 5GHz Ant2 SAR 10g (W/kg)	Sum 10g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
2.485	1.889	4.374	141.25	0.065	43

LTE 41 SAR 10g (W/kg)	WLAN 5GHz Ant2 SAR 10g (W/kg)	Sum 10g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
2.212	1.889	4.101	134.12	0.062	44

CDMA BC1 SAR 10g (W/kg)	WLAN 5GHz MIMO SAR 10g (W/kg)	Sum 10g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
2.382	1.808	4.19	139.44	0.062	45

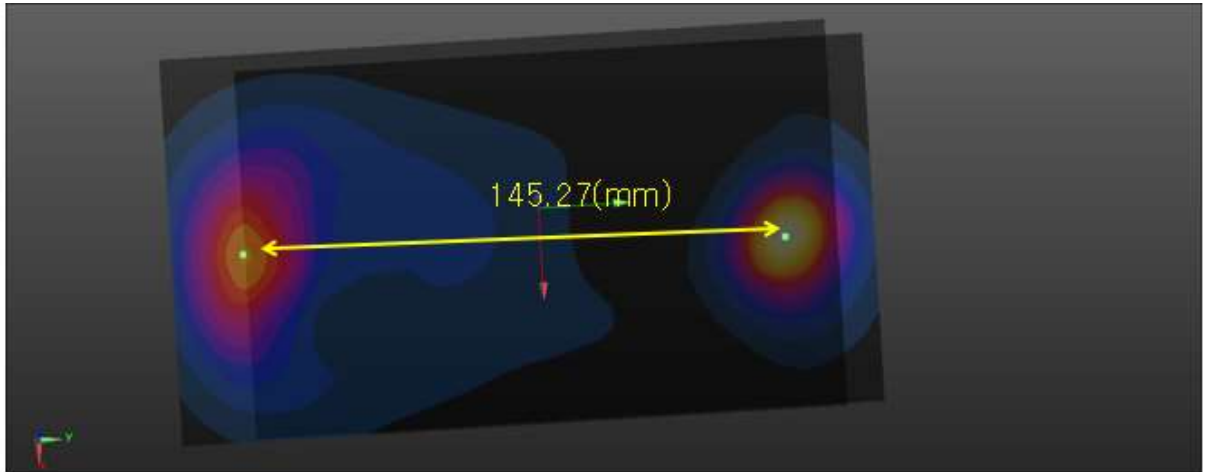
LTE 30 SAR 10g (W/kg)	WLAN 5GHz MIMO SAR 10g (W/kg)	Sum 10g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
2.485	1.808	4.293	142.55	0.062	46

LTE 41 SAR 10g (W/kg)	WLAN 5GHz MIMO SAR 10g (W/kg)	Sum 10g SAR 1+2	Peak SAR Seperation Distance (mm)	SPLSR	Plot No
1	2				
2.212	1.808	4.020	135.48	0.059	47

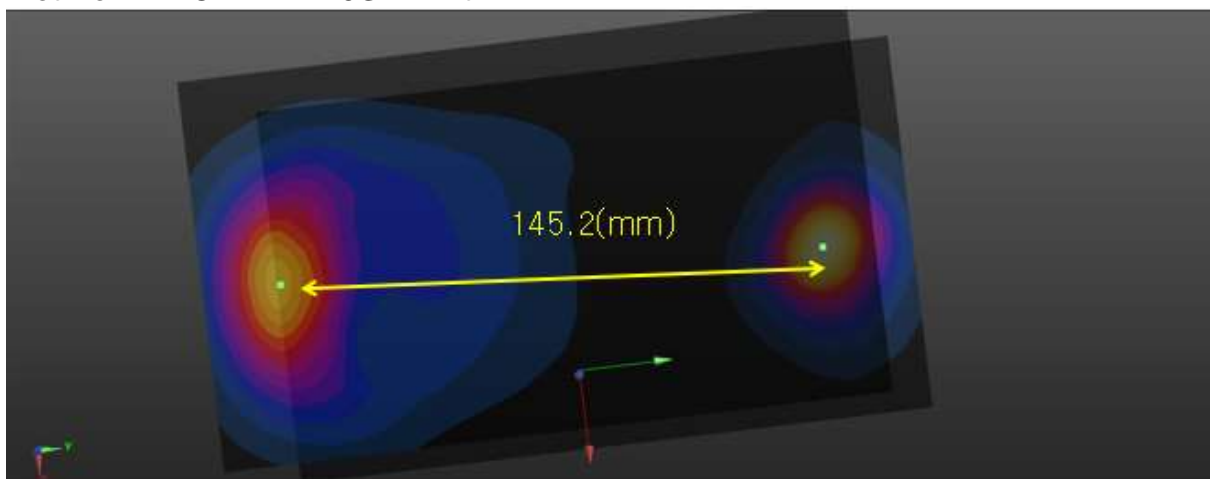
14.5 SPLSR Plot

Body-worn

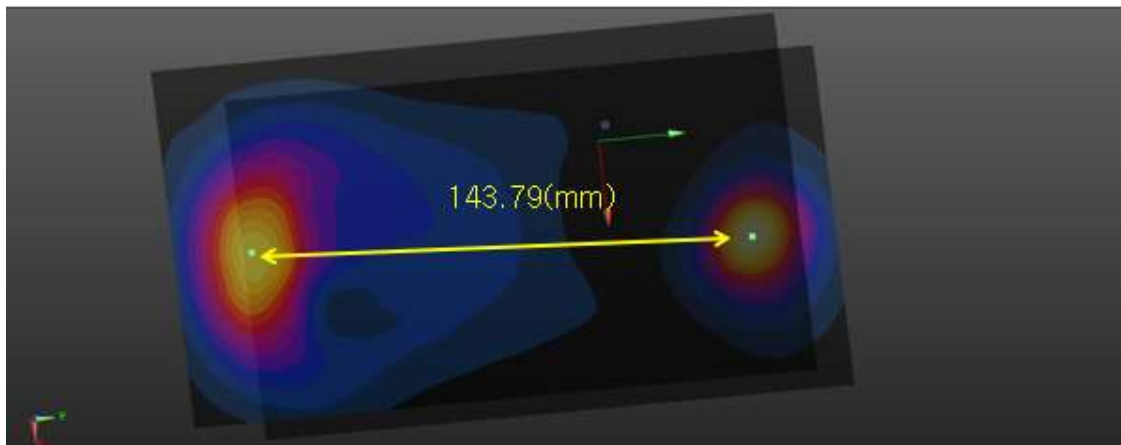
Plot No. 1 CDMA BC 1 +5GHz Ant2



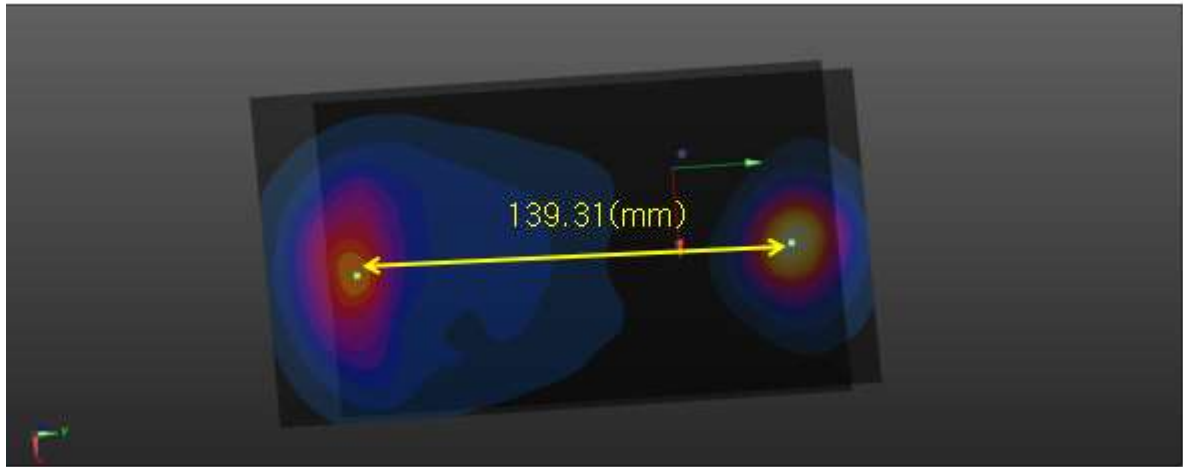
Plot No.2 WCDMA B4+5GHz Ant2



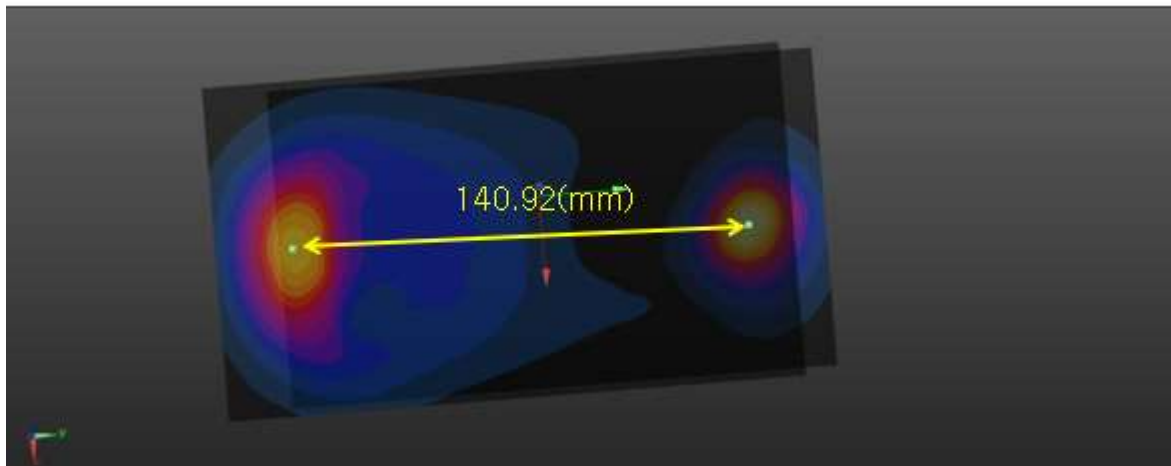
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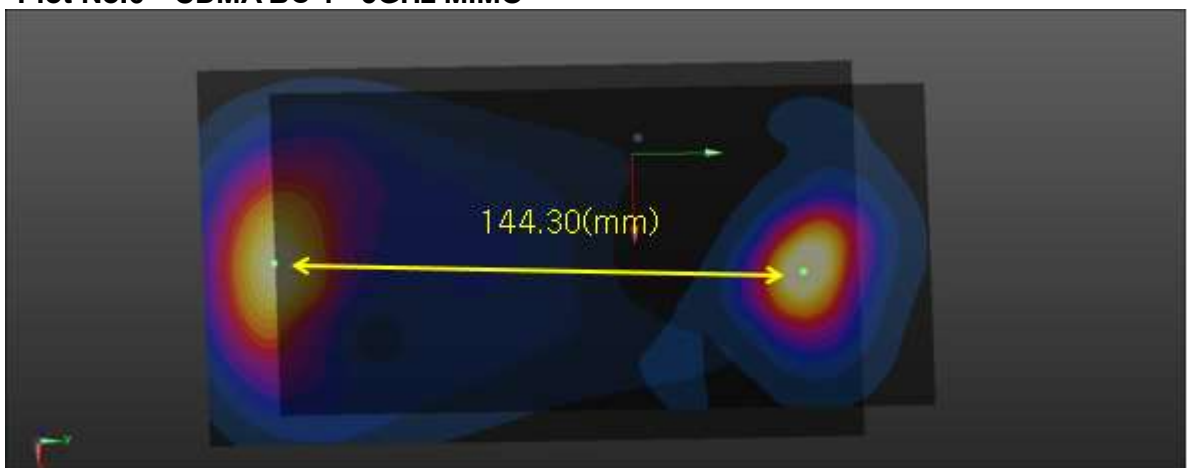
Plot No. 4 LTE66+5GHz Ant2



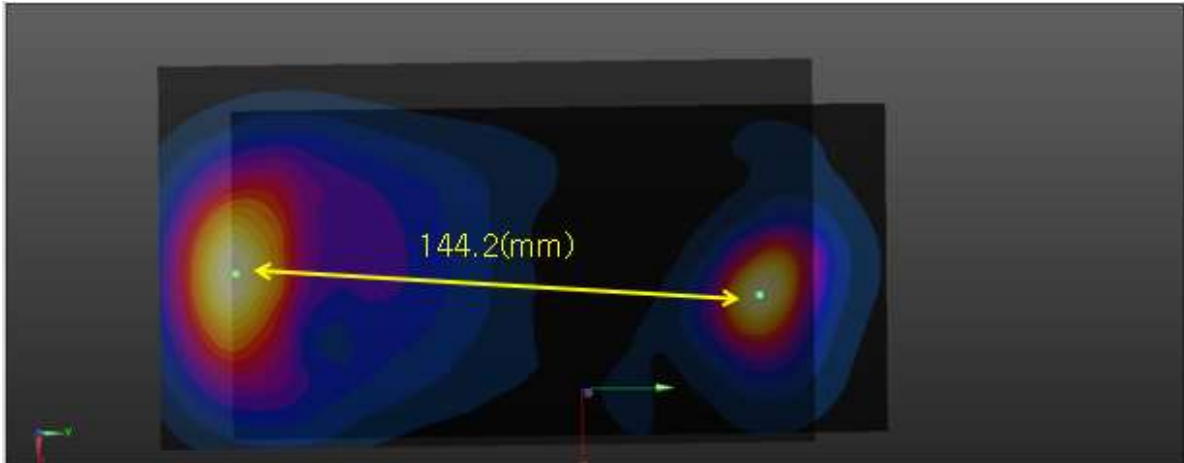
Plot No.5 n66+5GHz Ant2



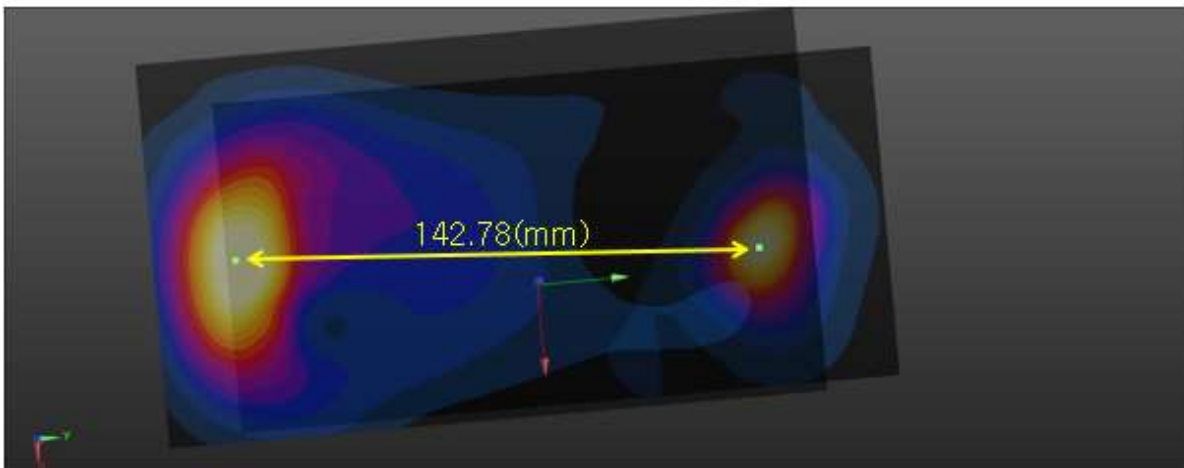
Plot No.6 CDMA BC 1 +5GHz MIMO



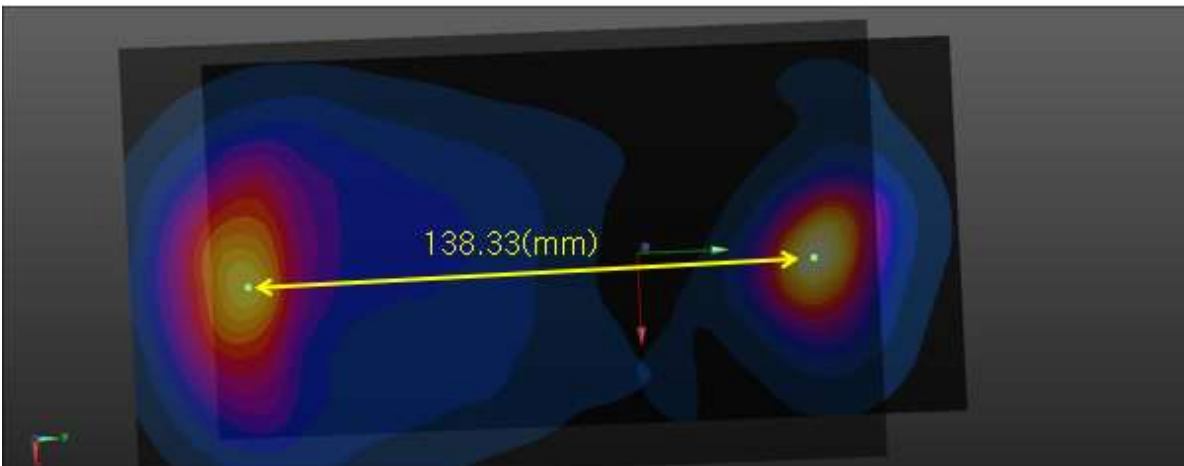
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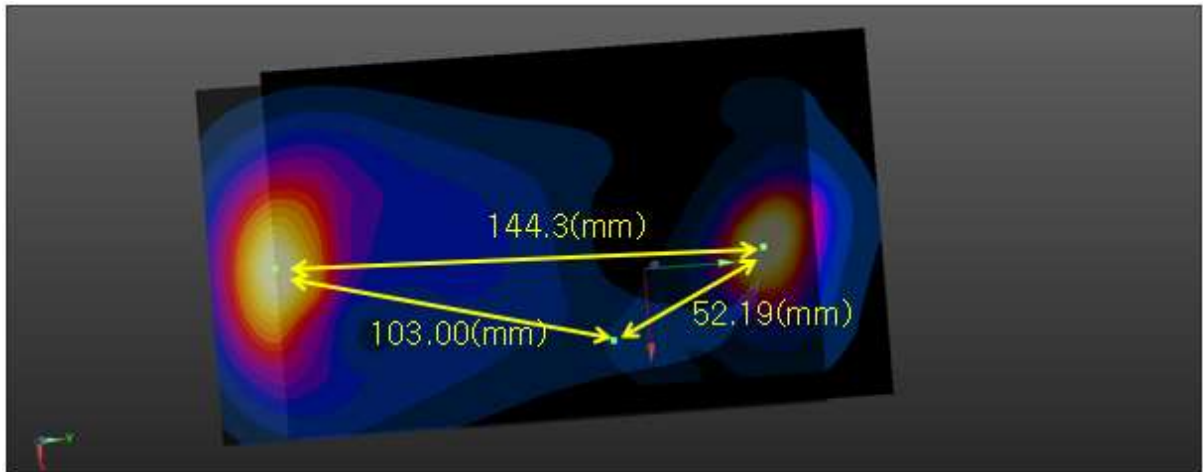
Plot No.8 WCDMA B2+5GHz MIMO



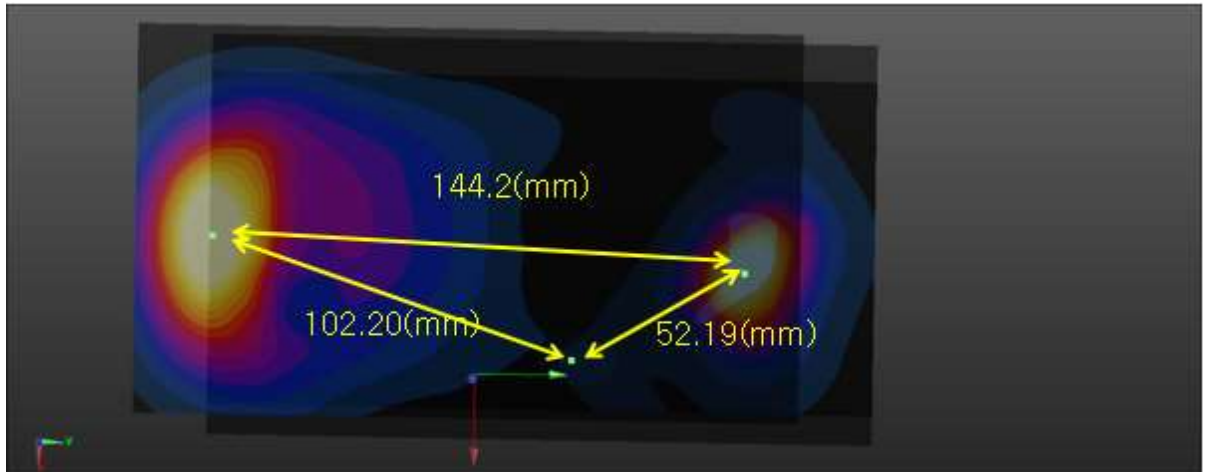
Plot No.9 LTE66+5GHz MIMO



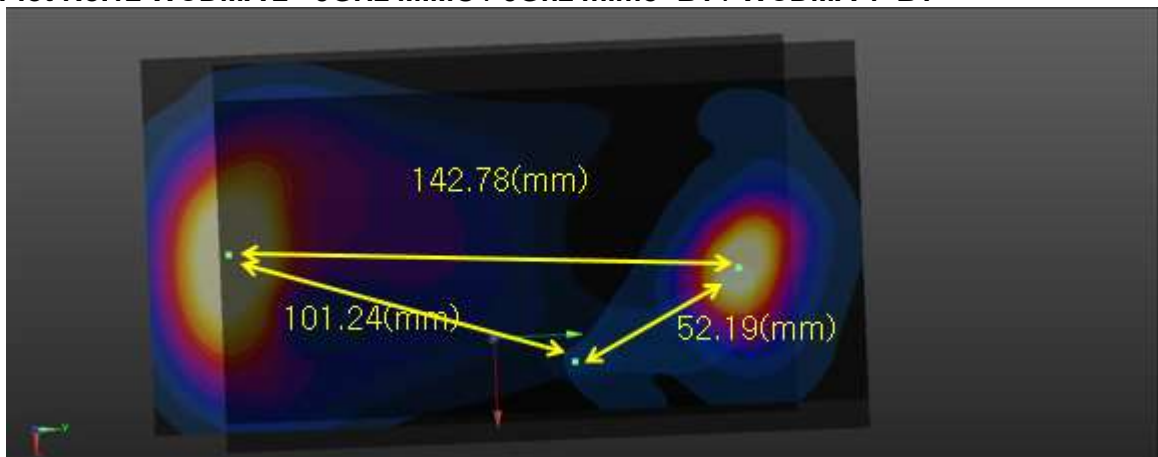
Plot No.10 CDMA BC 1 +5GHz MIMO / 5Ghz mimo+BT / CDMA BC1+BT



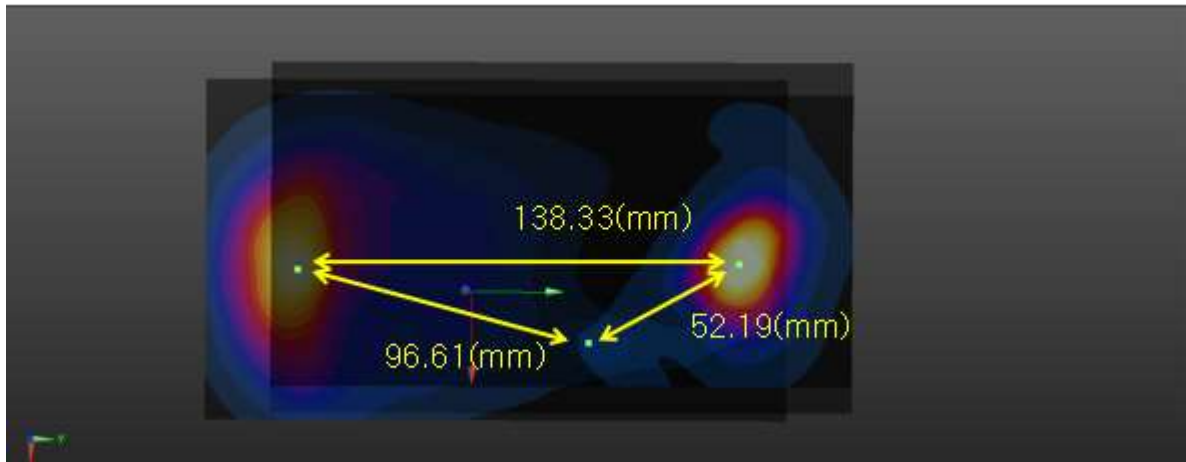
Plot No.11 WCDMA 4 +5GHz MIMO / 5Ghz mimo+BT / WCDMA 4+BT



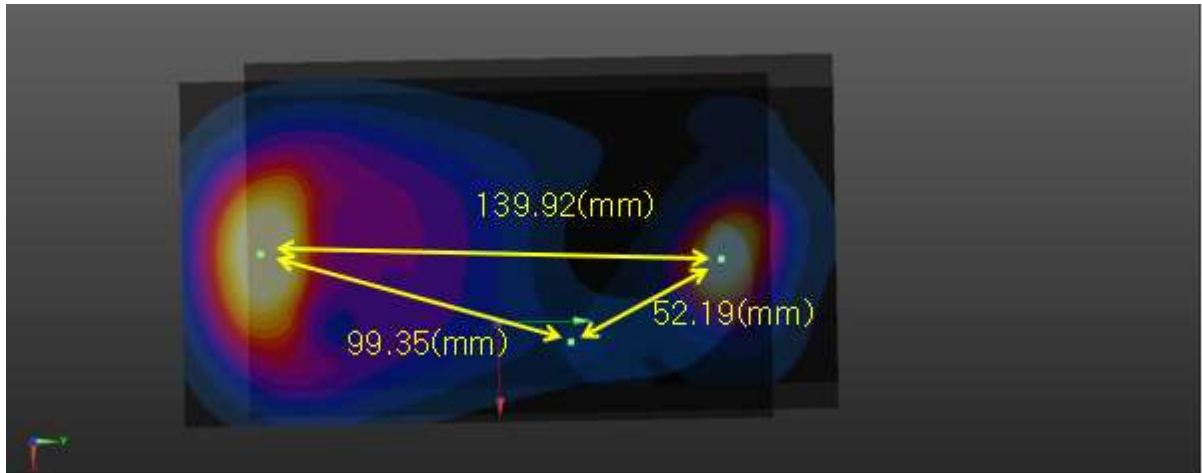
Plot No.12 WCDMA 2 +5GHz MIMO / 5Ghz mimo+BT / WCDMA 4+BT



Plot No.13 LTE66 +5GHz MIMO/ 5Ghz mimo+BT / LTE66+BT

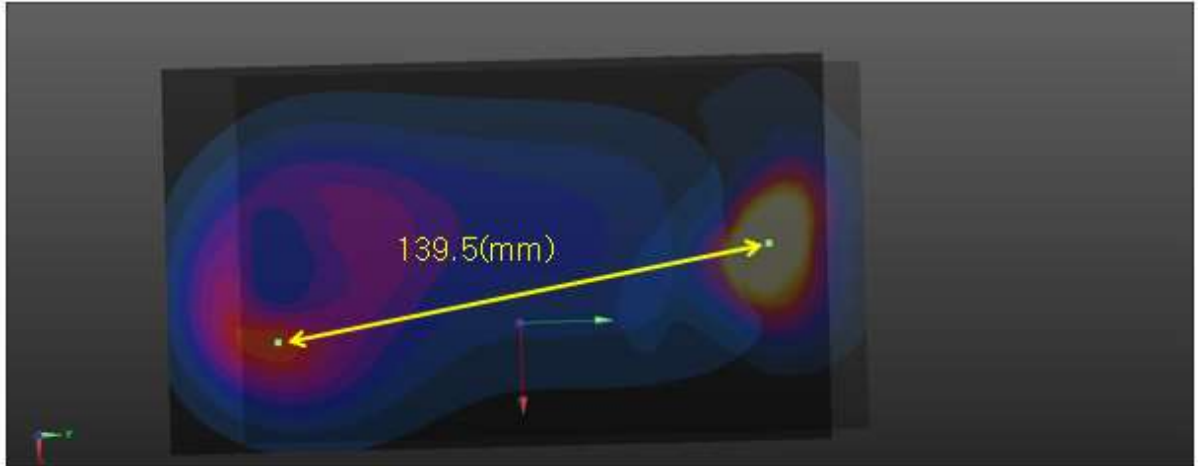


Plot No.14 n66 +5GHz MIMO / 5Ghz mimo+BT / n66+BT

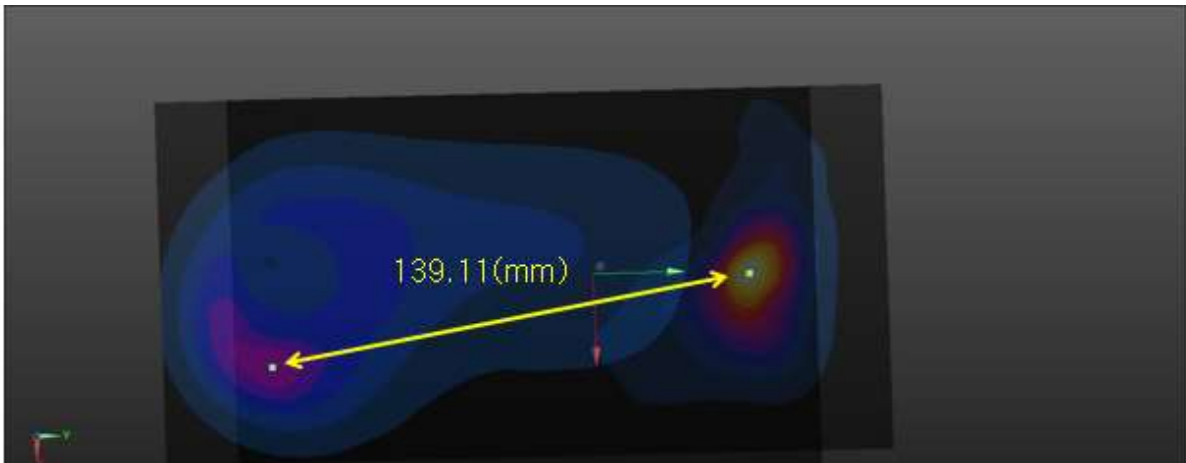


● **Hotspot**

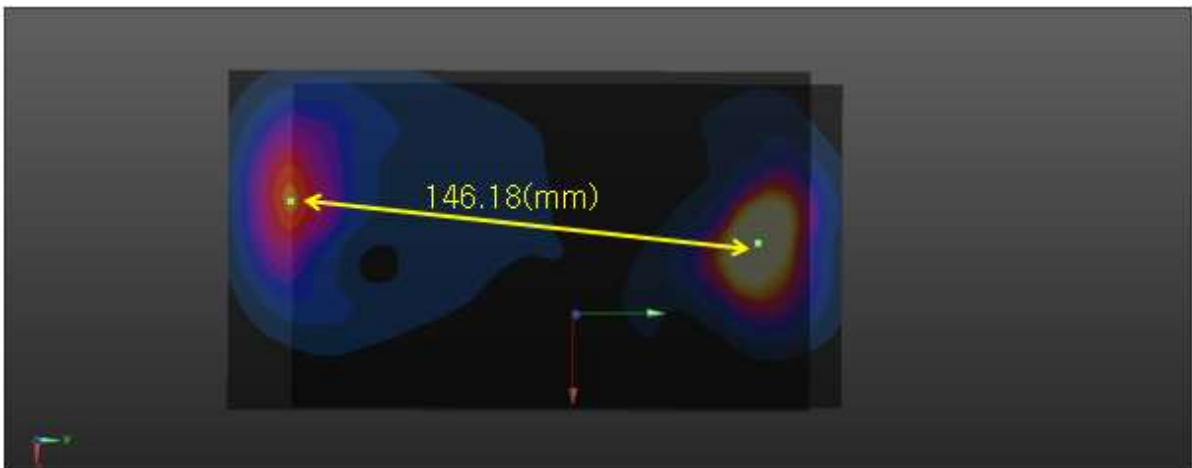
Plot No.15 CDMA BC 10 +5GHz Ant2



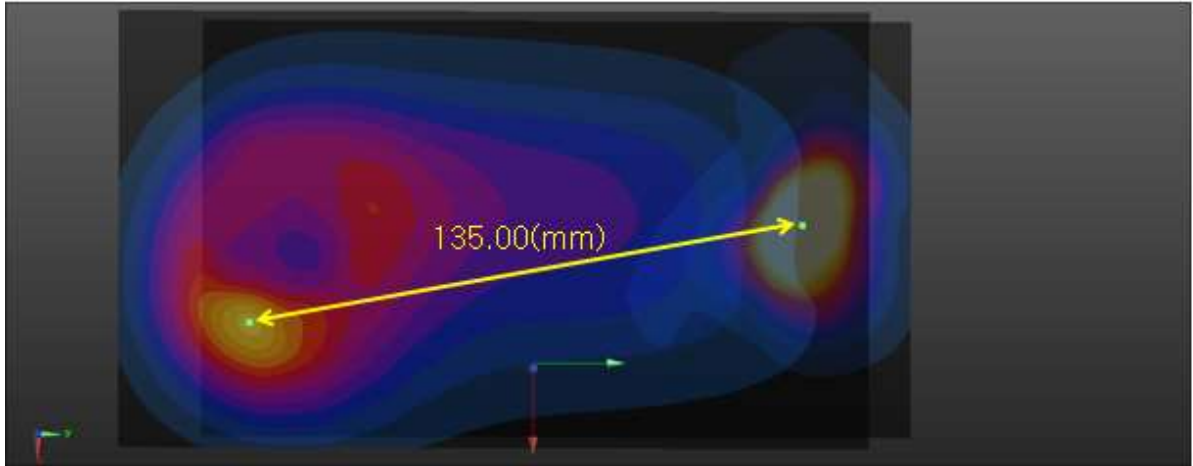
Plot No.16 CDMA BC 0 +5GHz Ant2



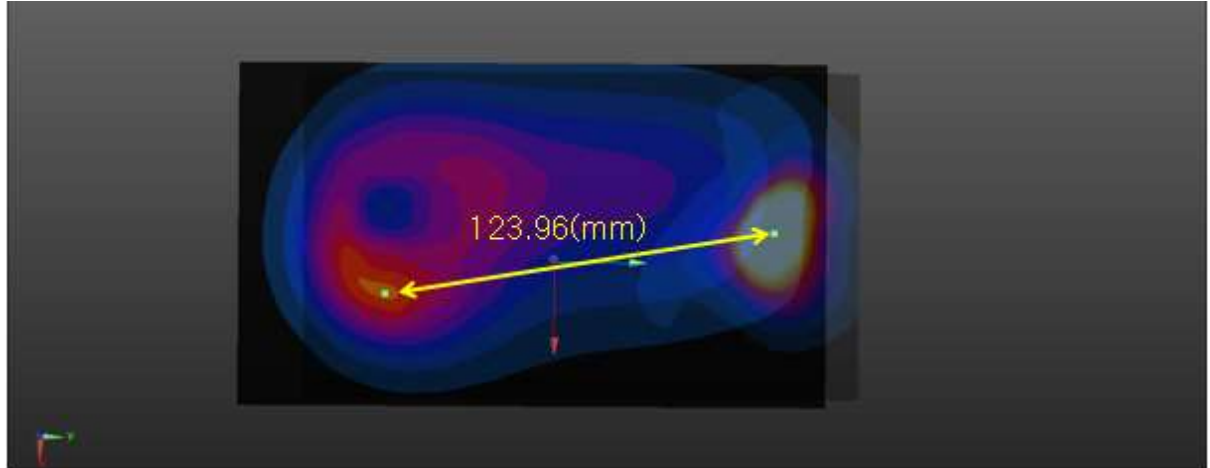
Plot No.17 CDMA BC 1 +5GHz Ant2



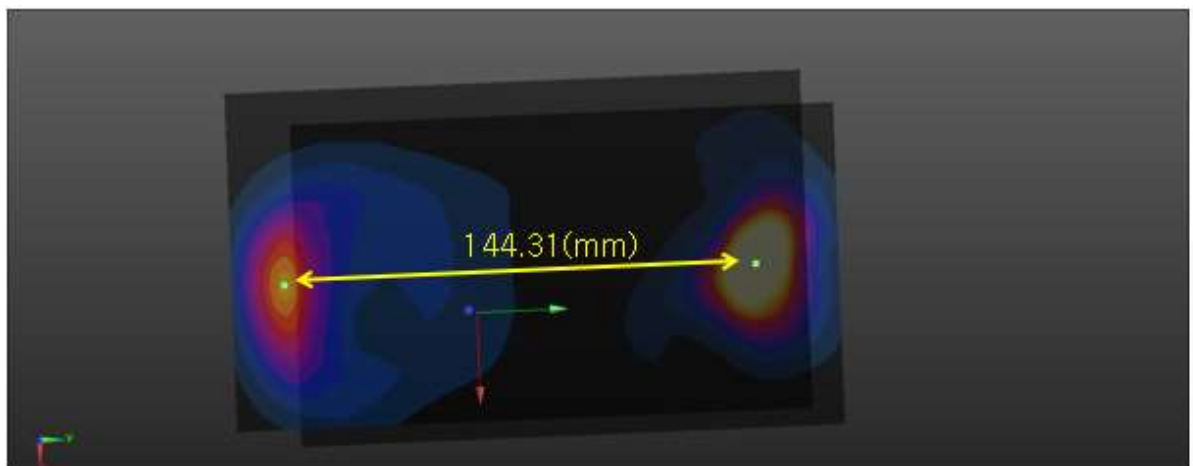
Plot No.18 GSM850 +5GHz Ant2



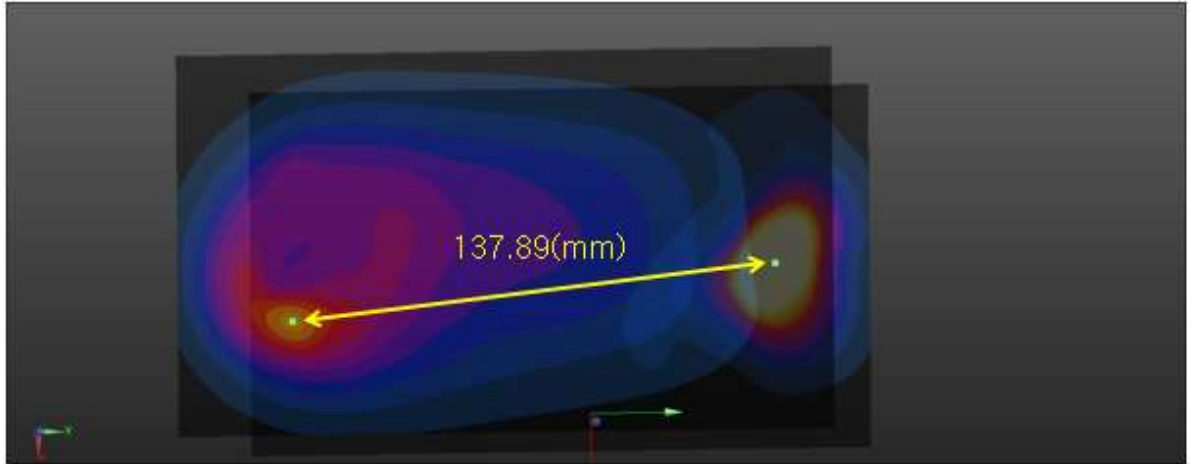
Plot No.19 WCDMA B5 +5GHz Ant2



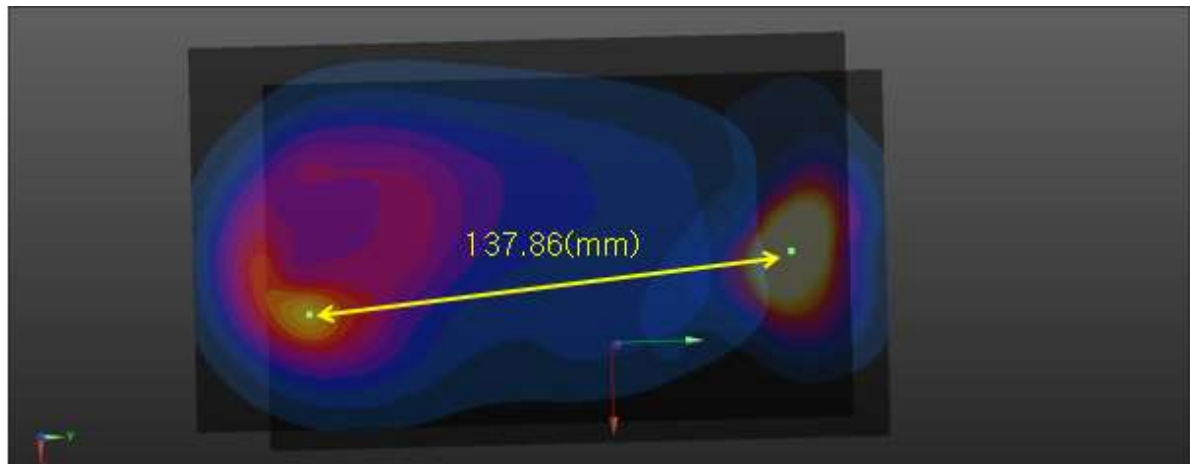
Plot No.20 WCDMA B4 +5GHz Ant2



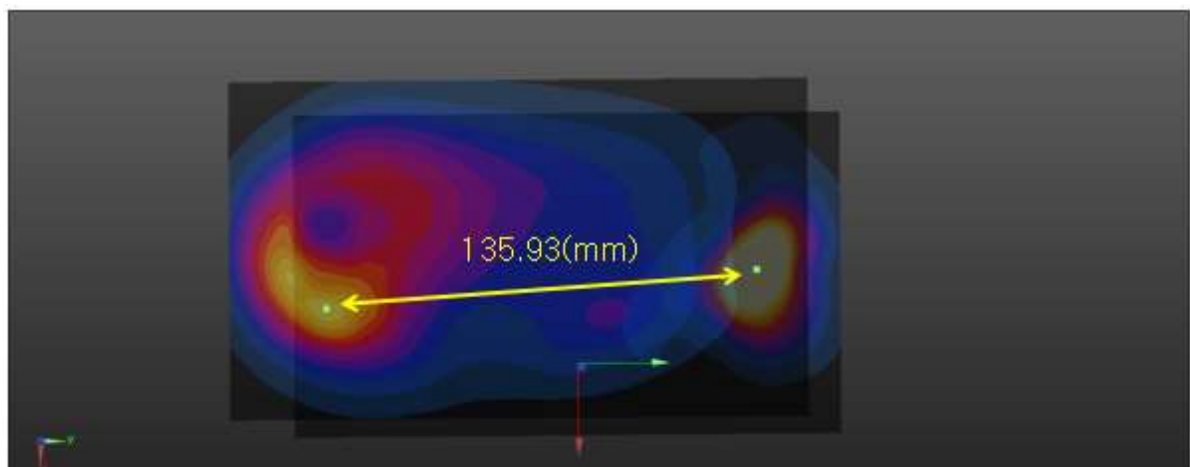
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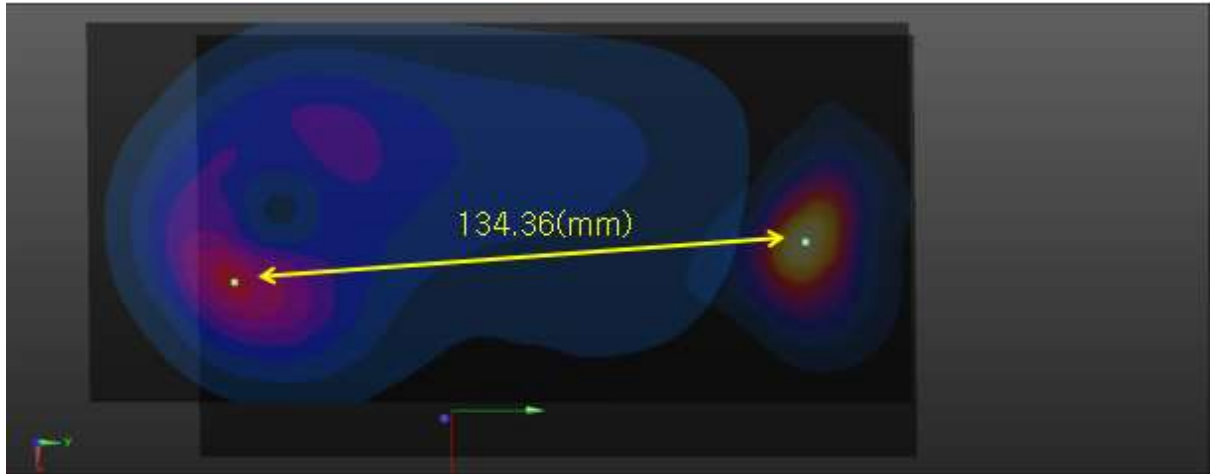
Plot No.22 LTE13 +5GHz Ant2



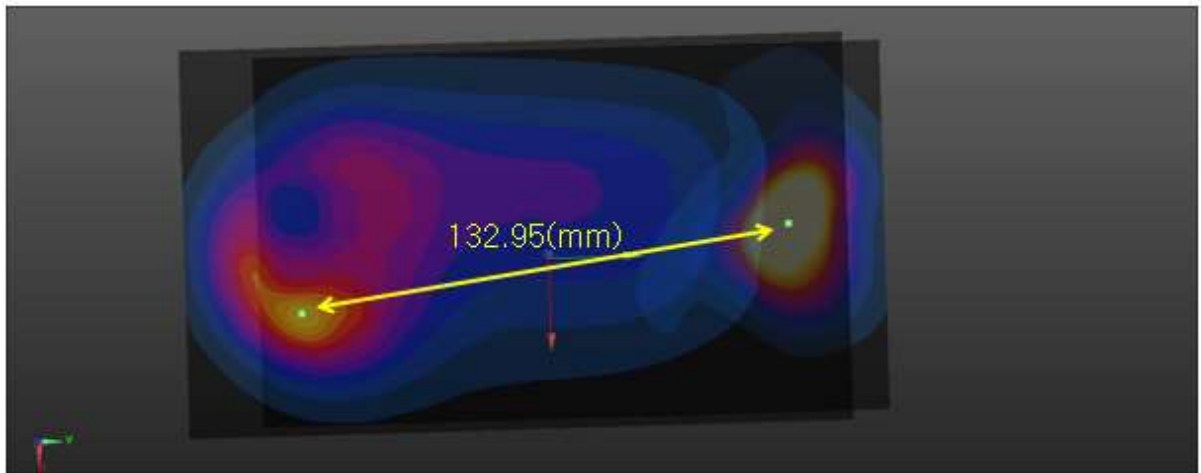
Plot No.23 LTE14 +5GHz Ant2



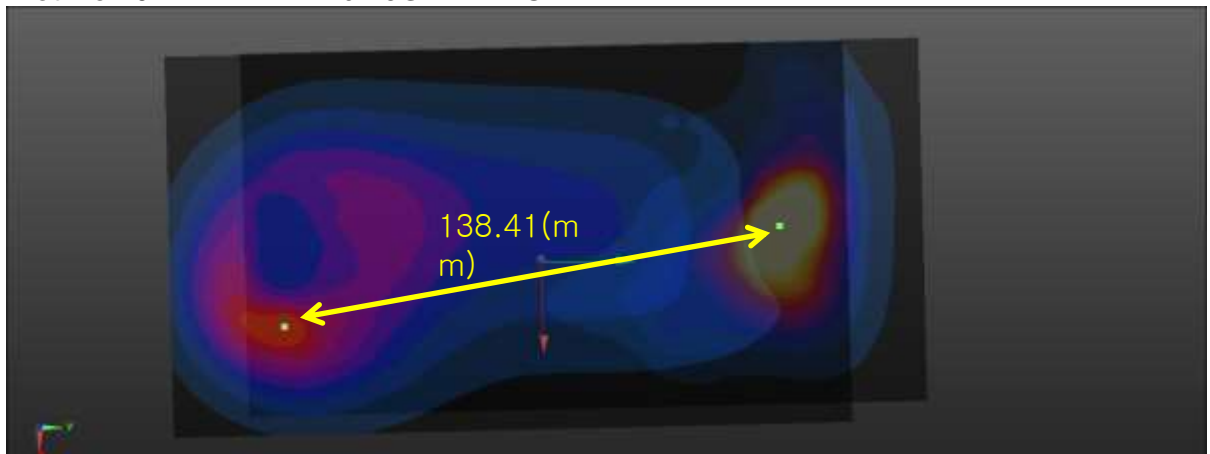
Plot No.24 LTE26 +5GHz Ant2



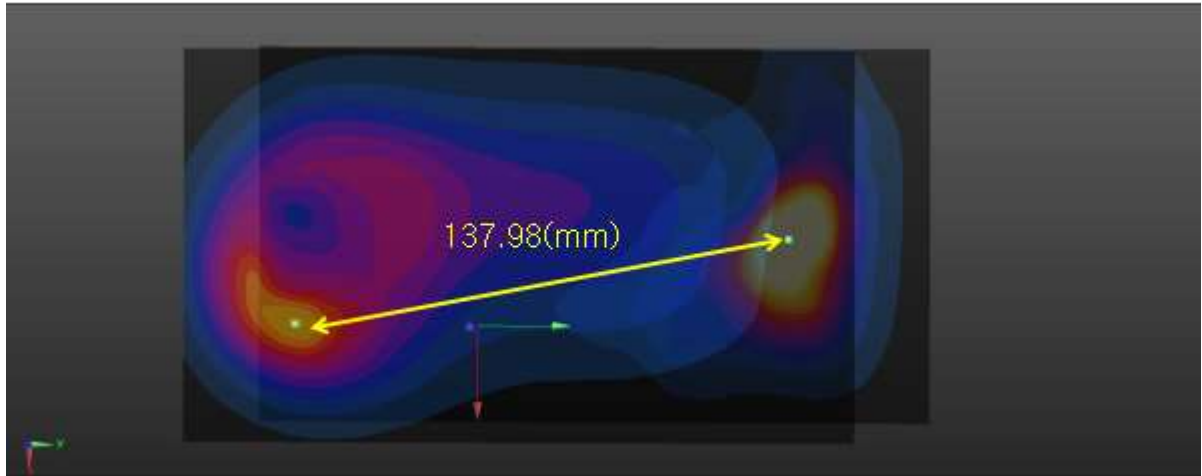
Plot No.25 n5 +5GHz Ant2



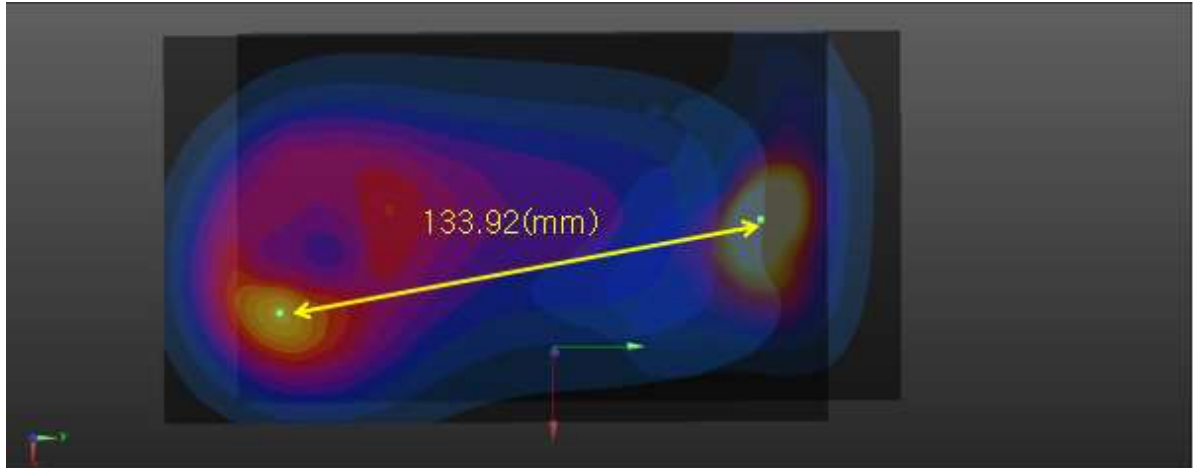
Plot No.26 CDMA BC 10 +5GHz MIMO



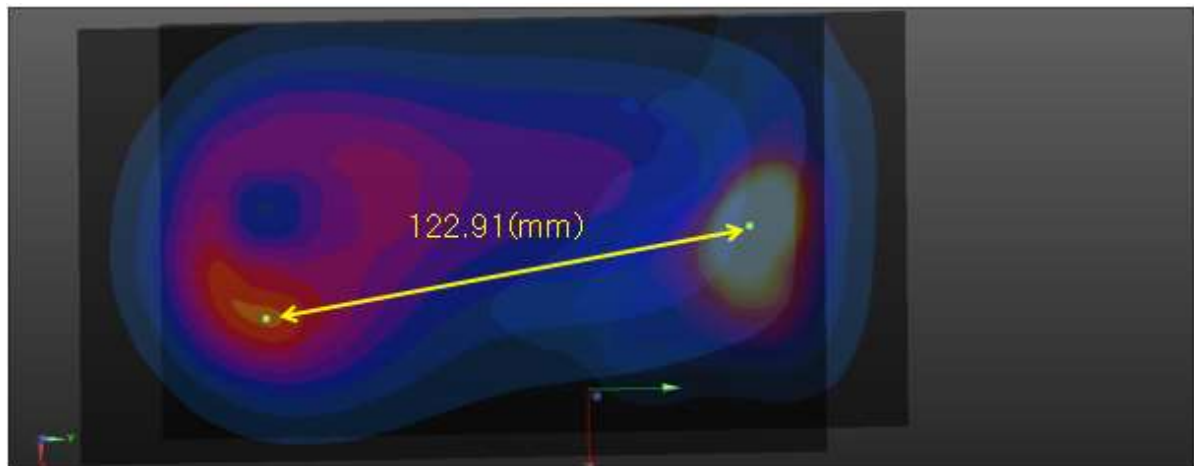
Plot No.27 CDMA BC 0 +5GHz MIMO



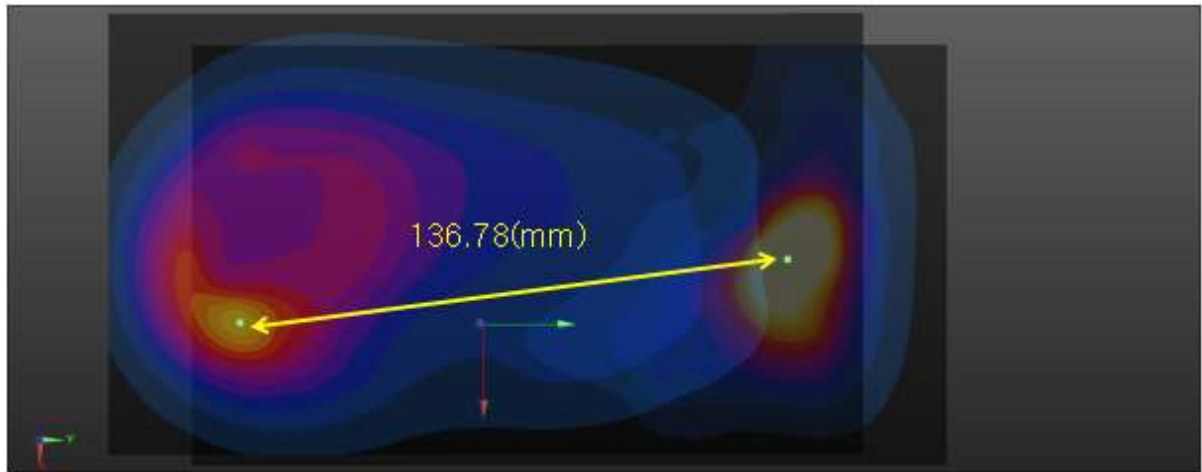
Plot No.28 GSM850 +5GHz MIMO



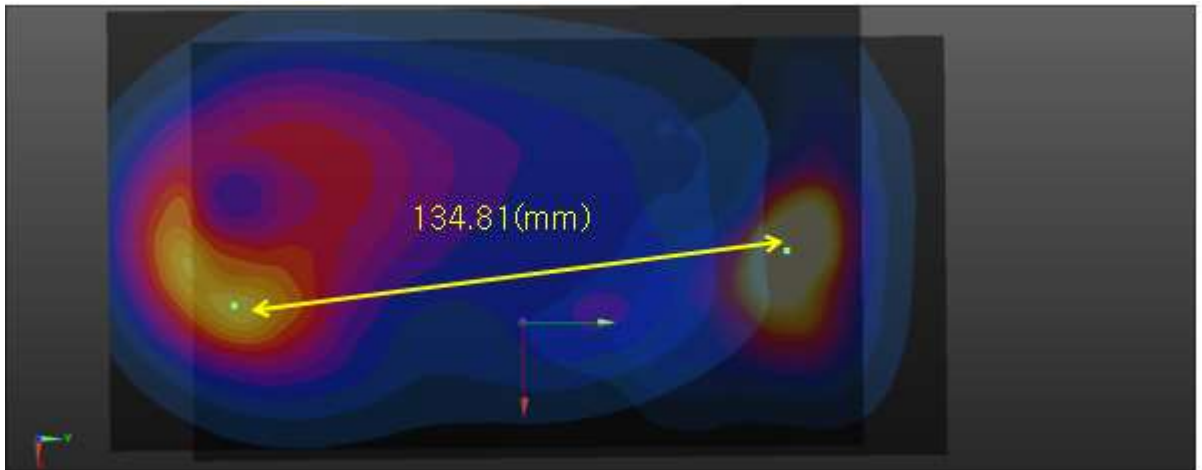
Plot No.29 WCDMA B5 +5GHz MIMO



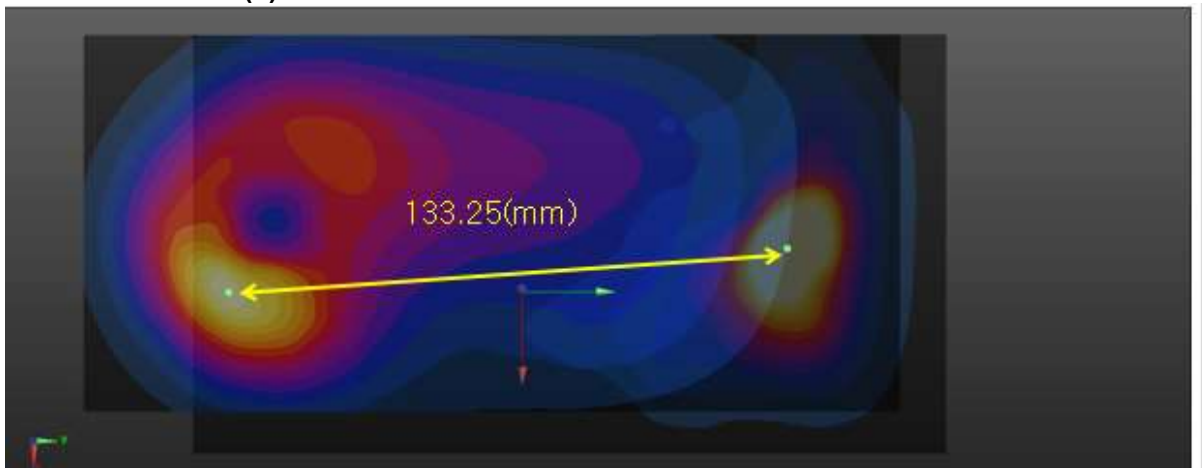
Plot No.30 LTE13 +5GHz MIMO



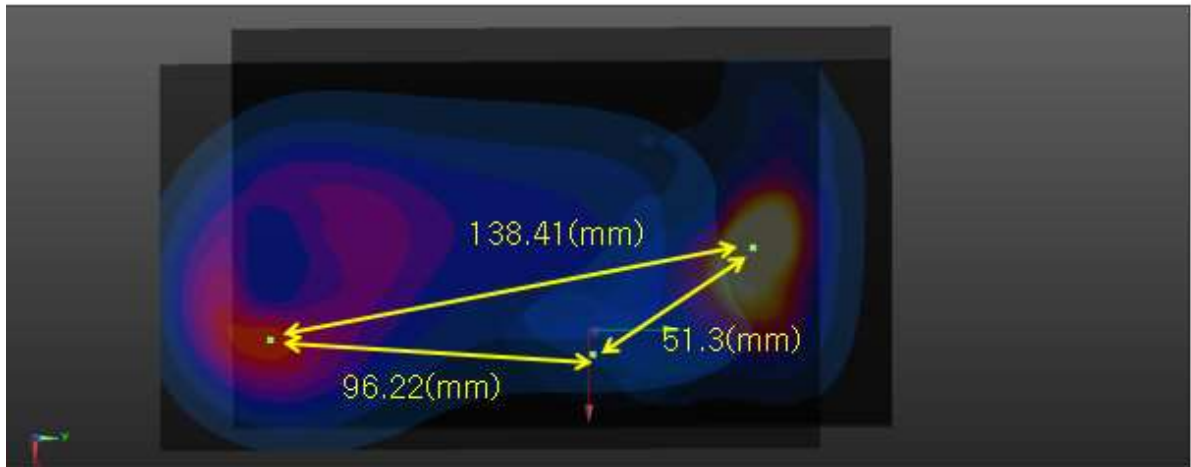
Plot No.31 LTE14 +5GHz MIMO



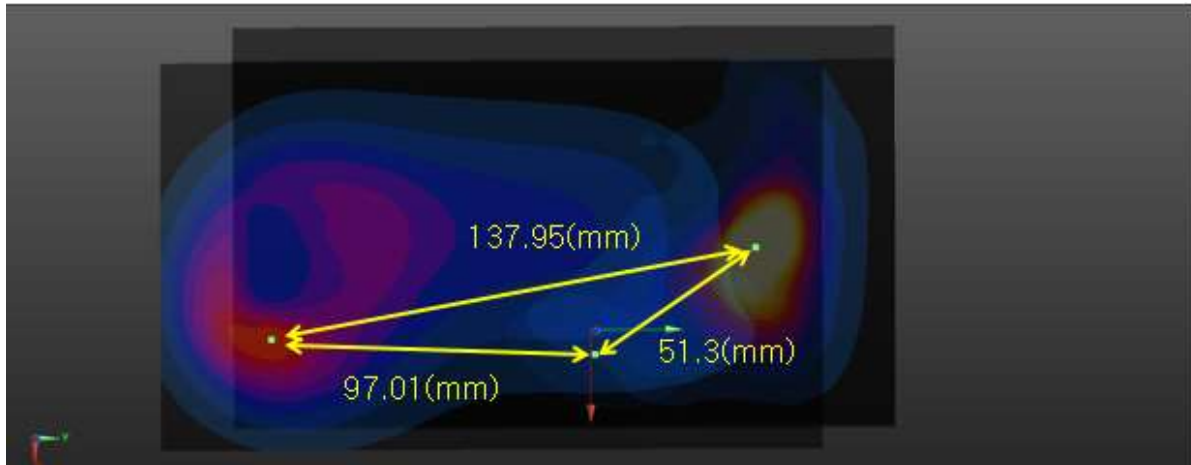
Plot No.32 LTE26(5) +5GHz MIMO



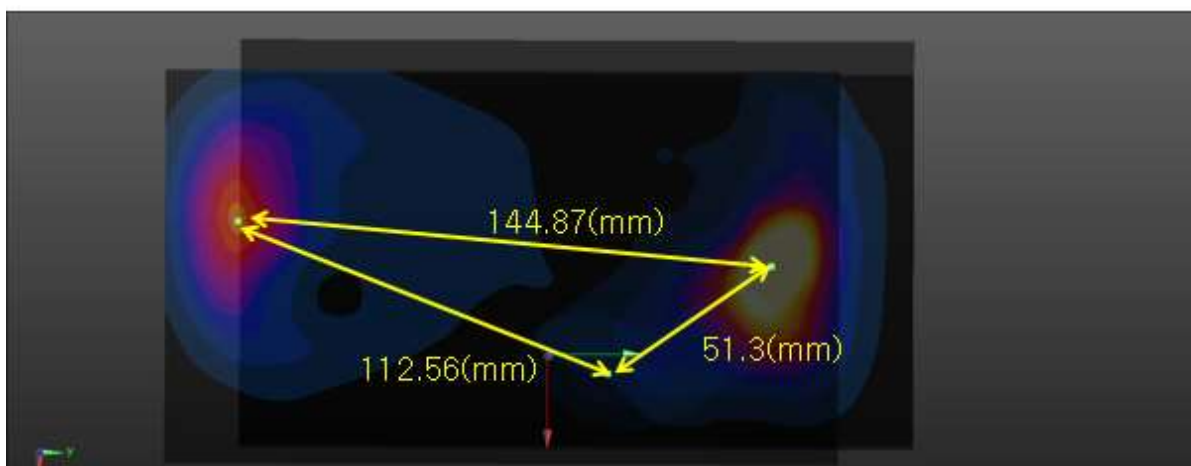
Plot No.33 CDMA BC 10 +5GHz MIMO / 5GHz MIMO+BT / CDMA BC10 +BT



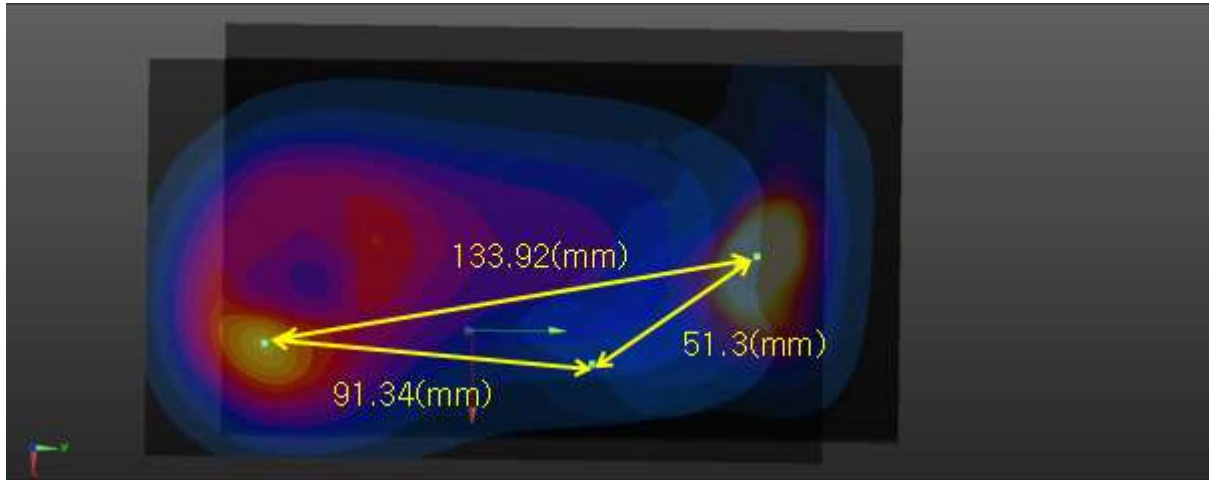
Plot No.34 CDMA BC 0 +5GHz MIMO / 5GHz MIMO+BT / CDMA BC0 +BT



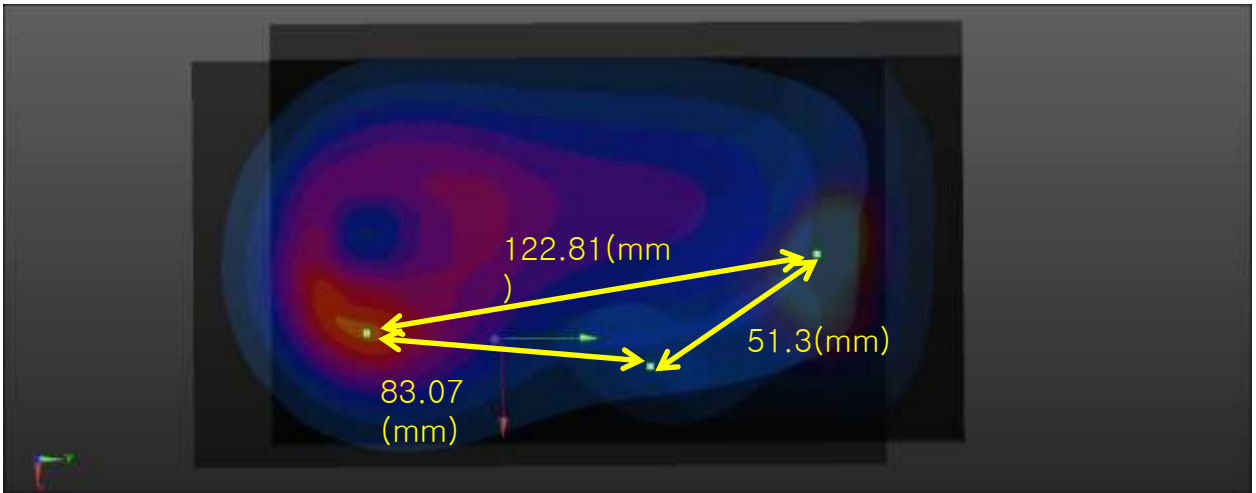
Plot No.35 CDMA BC 1 +5GHz MIMO / 5GHz MIMO+BT / CDMA BC1 +BT



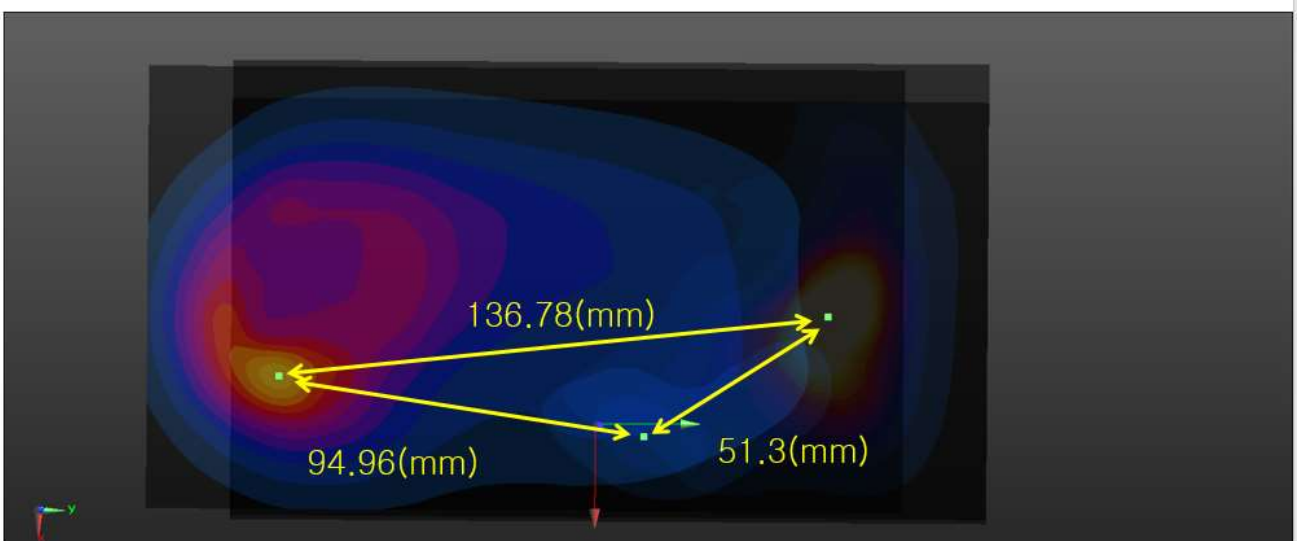
Plot No.36 GSM850 +5GHz MIMO / 5GHz MIMO+BT / GSM850 +BT



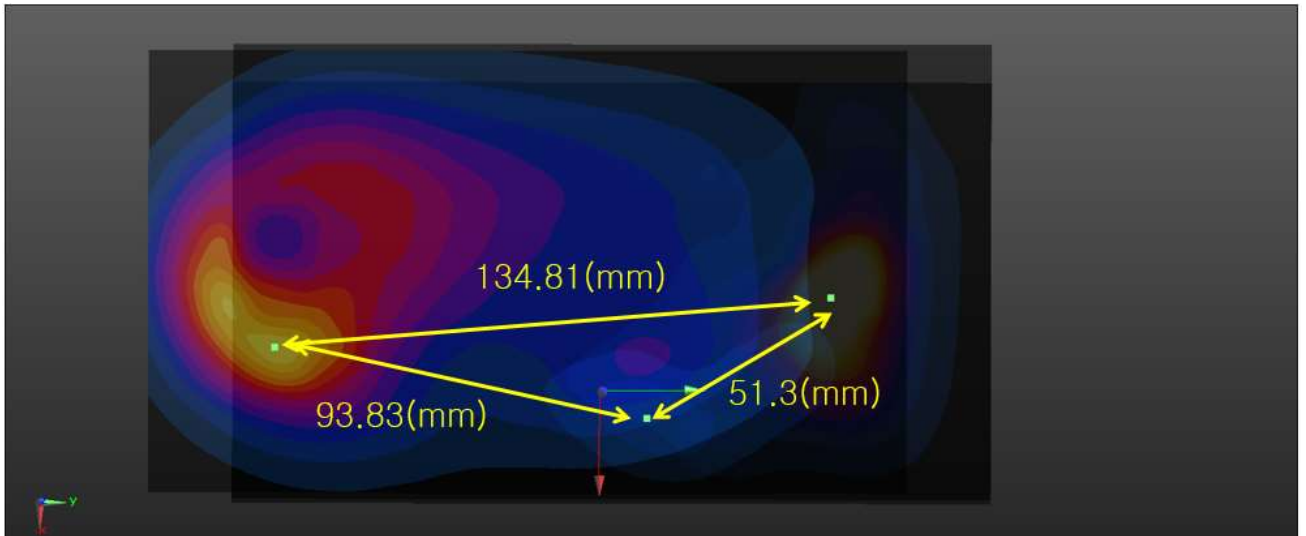
Plot No.37 WCDMA B5 +5GHz MIMO/ 5GHz MIMO+BT / WCDMA B5 +BT



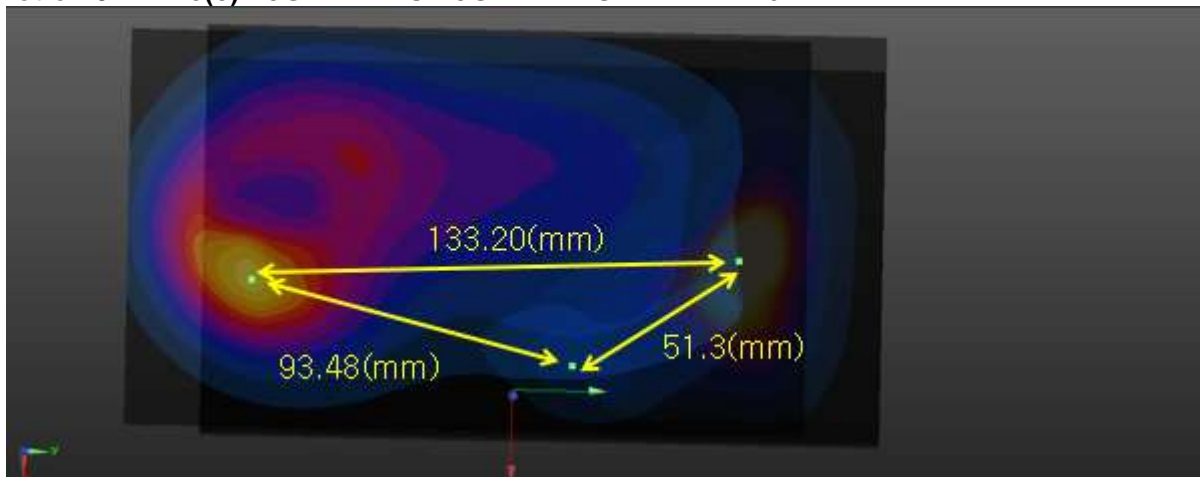
Plot No.38 LTE13 +5GHz MIMO/ 5GHz MIMO+BT / LTE13+BT



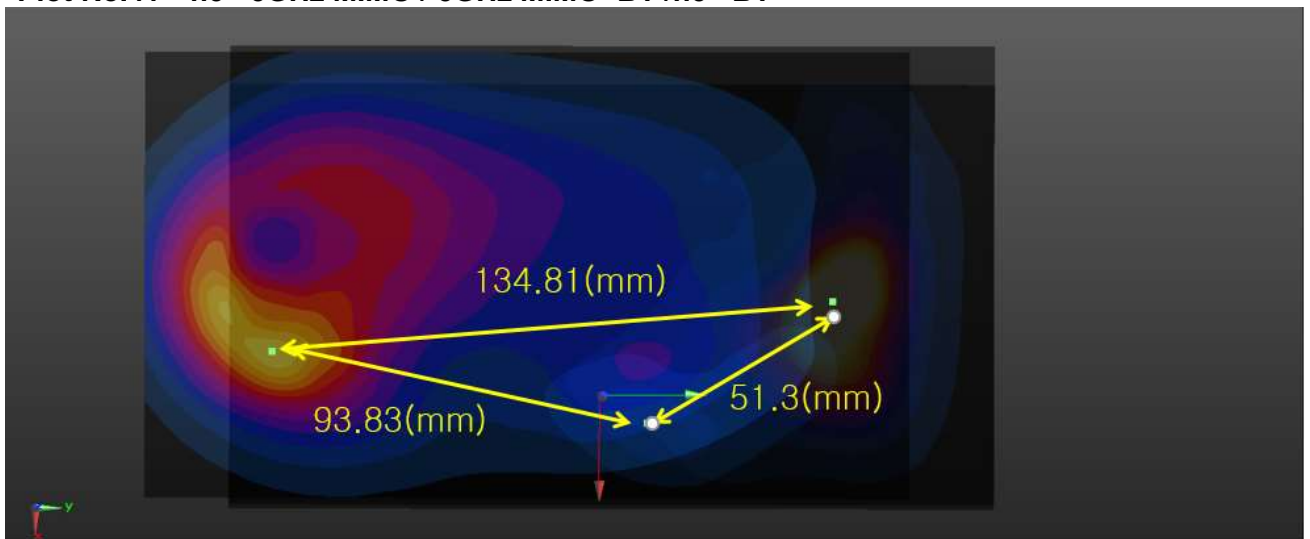
Plot No.39 LTE14 +5GHz MIMO/ 5GHz MIMO+BT / LTE14+BT



Plot No.40 LTE26(5) +5GHz MIMO / 5GHz MIMO+BT / LTE26 +BT

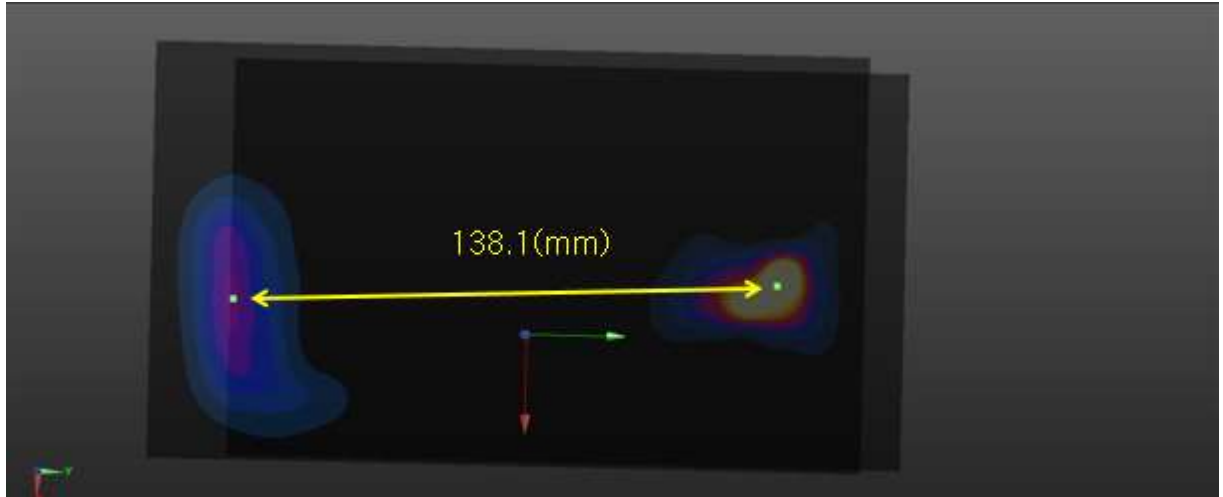


Plot No.41 n5 +5GHz MIMO / 5GHz MIMO+BT /n5 +BT



● **Phablet**

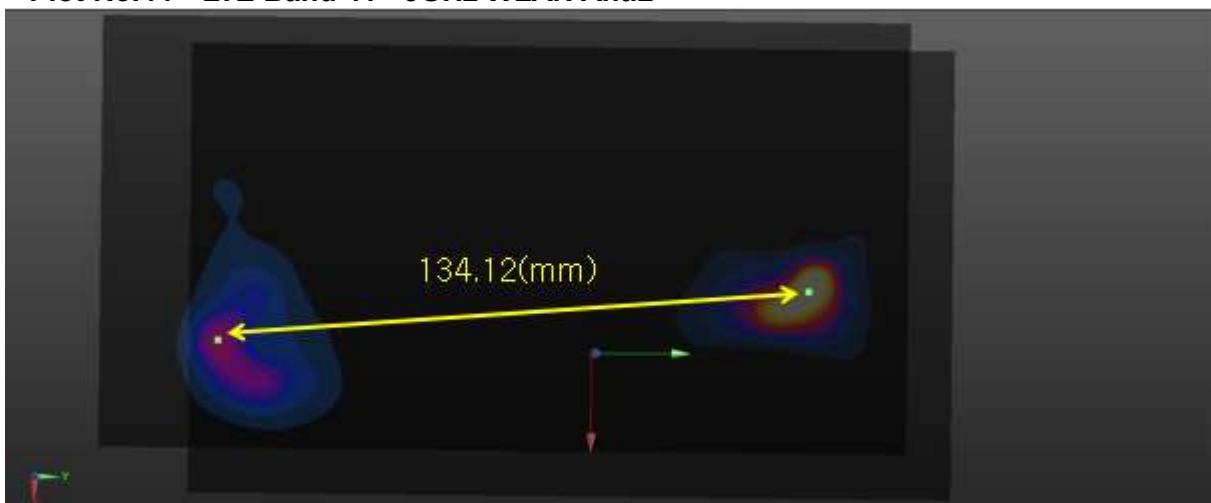
Plot No.42 CDMA BC1 +5GHz WLAN Ant.2



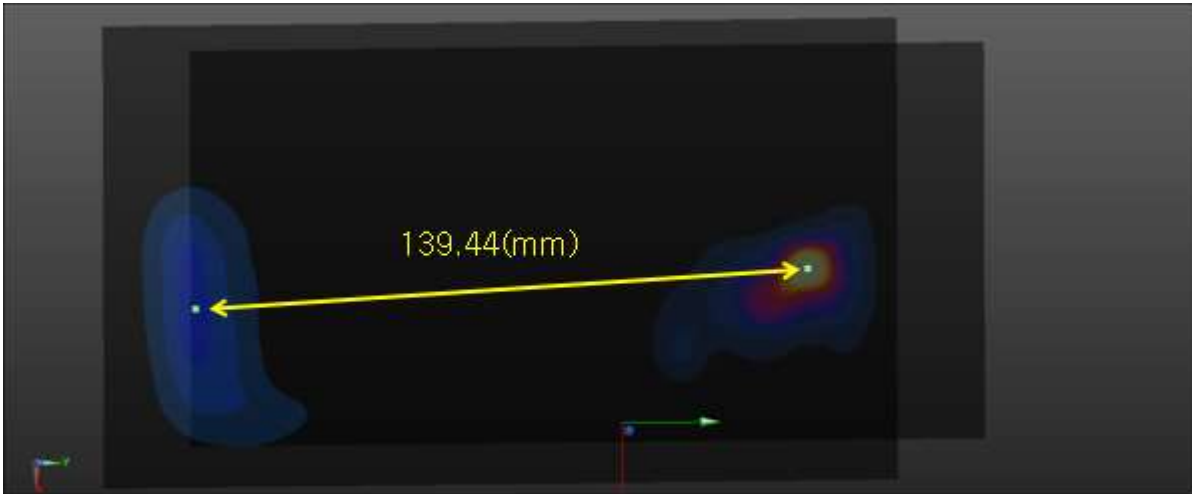
Plot No.43 LTE Band 30 +5GHz WLAN Ant.2



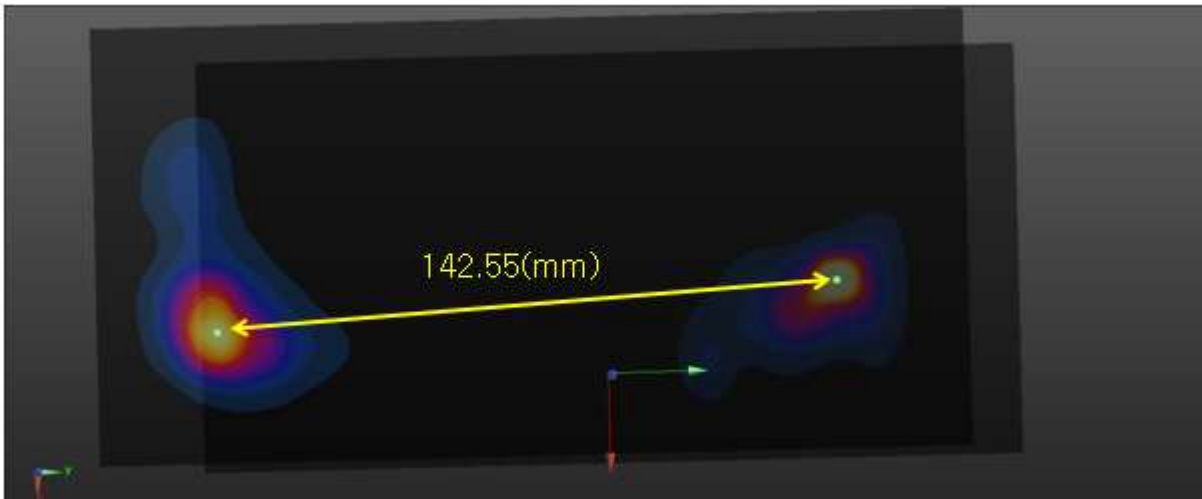
Plot No.44 LTE Band 41 +5GHz WLAN Ant.2



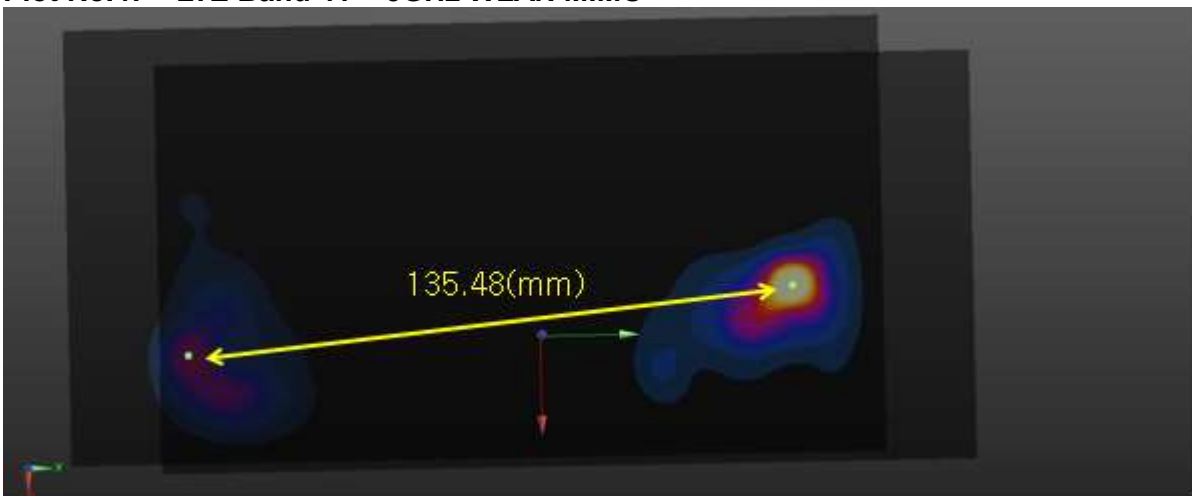
Plot No.45 CDMA BC1 + 5GHz WLAN MIMO



Plot No.46 LTE Band 30 + 5GHz WLAN MIMO



Plot No.47 LTE Band 41 + 5GHz WLAN MIMO



14.6 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.

Body-Worn SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
Mhz	Channel					
1852.4	9262	UMTS 1700	Rear	0.962	0.959	1.00
1 720	132072	LTE 66	Rear	0.842	0.833	1.01
1 745	349000	NR n66	Rear	0.900	0.890	1.01

Hotspot SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
Mhz	Channel					
1851.25	25	PCS CDMA	Bottom	0.946	0.904	1.05
1 880	9400	UMTS 1900	Bottom	0.907	0.902	1.01
1 882.5	376500	NR Band n25	Bottom	0.805	0.805	1.00
1 745	349000	NR Band n66	Bottom	1.02	0.997	1.02
5 785	157	802.11a	Rear	0.824	0.815	1.01

Phablet SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
Mhz	Channel					
1851.25	25	PCS CDMA	Bottom	2.26	2.21	1.02
2 310	27710	LTE Band 30	Rear	2.09	2.07	1.01

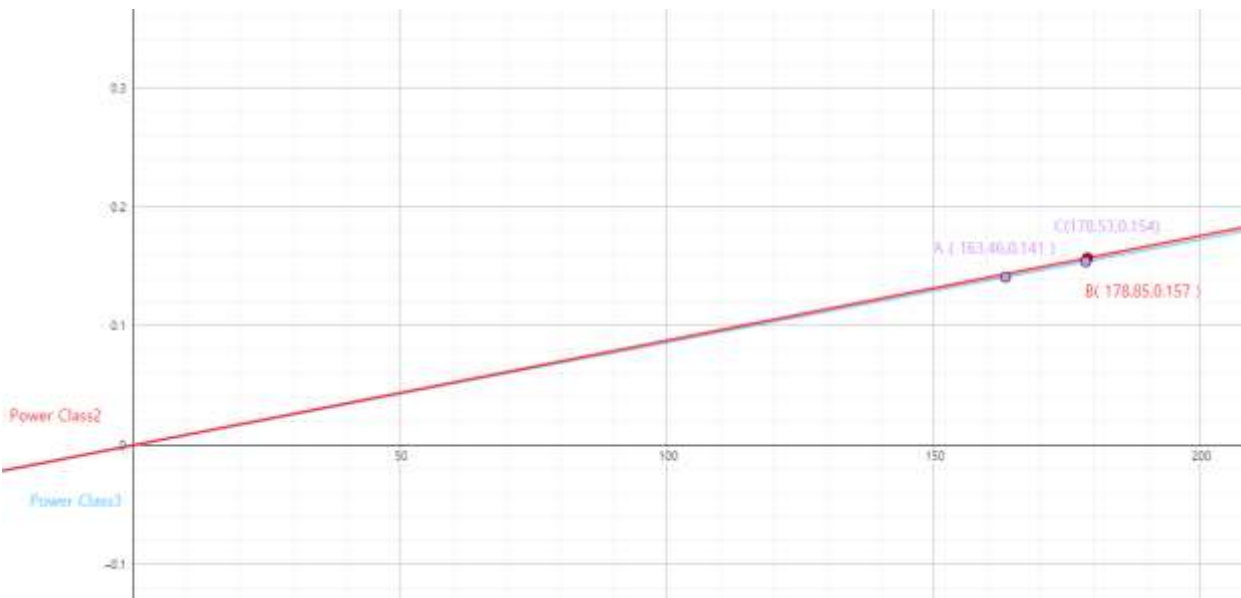
16. LTE Band 41 Power Class 2 and Power class 3 Linearity

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

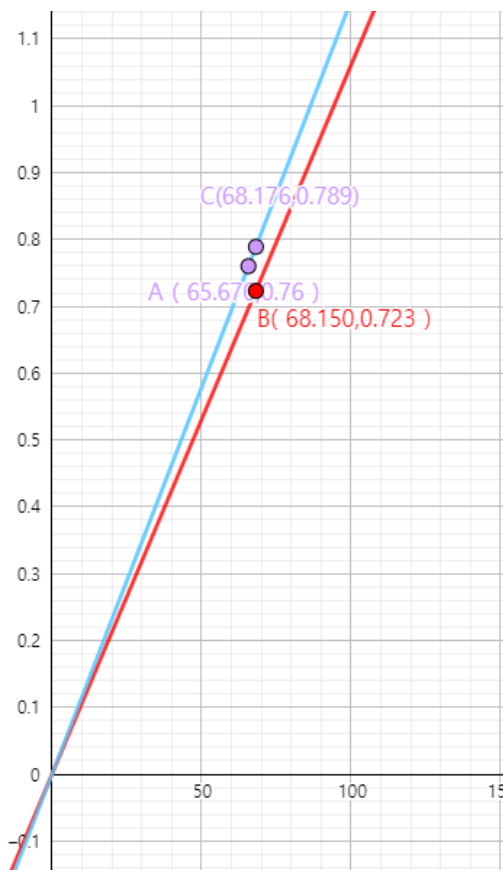
The linearity between the power class 3 and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

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

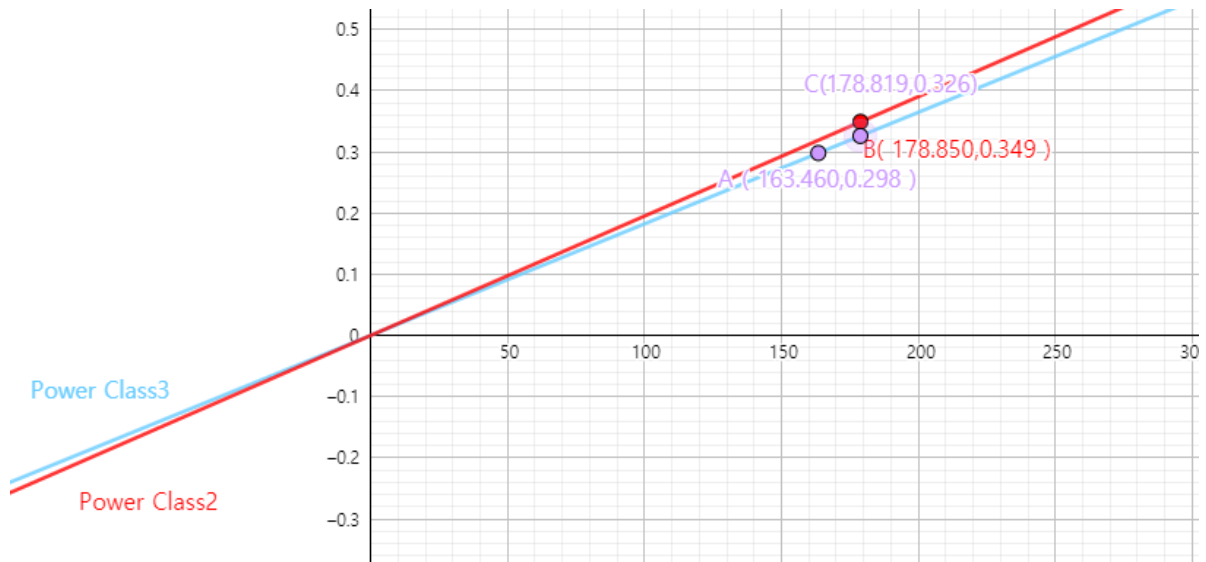
LTE Band 41 Head Right Tilt Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	27.3
Measured Output Power[dBm]	24.12	26.16
Measured SAR[W/kg]	0.141	0.157
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	163.46	178.85
	0.000862596	0.000877831
% deviation from expected linearity		-1.735440837



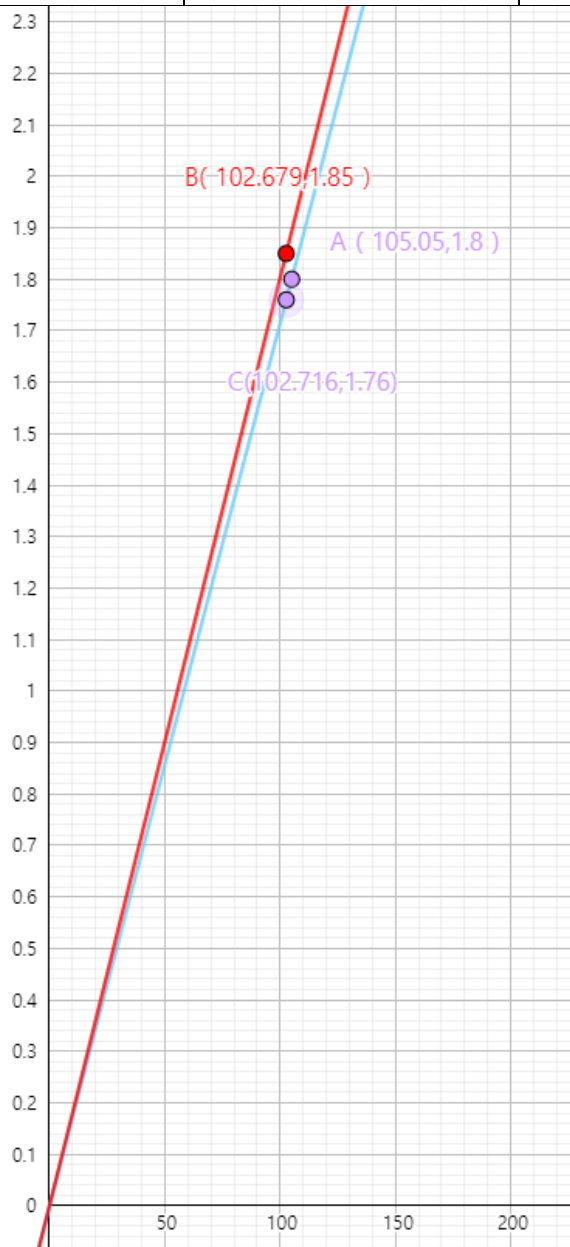
LTE Band 41 Body Bottom Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	21	23
Measured Output Power[dBm]	20.16	21.97
Measured SAR[W/kg]	0.76	0.723
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	65.67	68.15
	0.011573017	0.010608951
% deviation from expected linearity		9.087286468



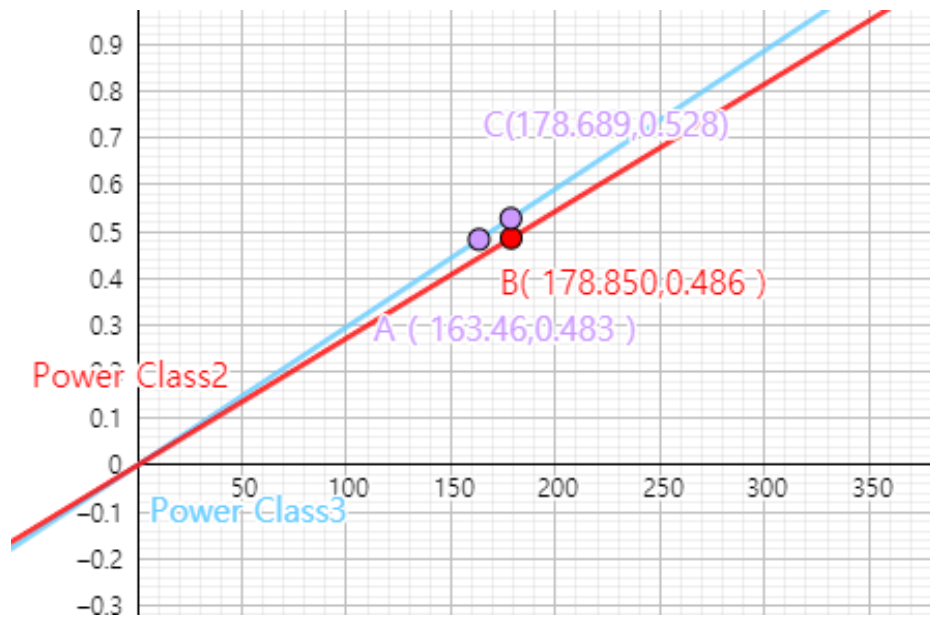
LTE Band 41 Body-Worn Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	27.3
Measured Output Power[dBm]	24.12	26.16
Measured SAR[W/kg]	0.298	0.349
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	163.46	178.85
	0.001823076	0.001951356
% deviation from expected linearity		-6.57388557



LTE Band 41 Phablet Reduced Rear Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24
Measured Output Power[dBm]	22.2	23.75
Measured SAR[W/kg]	1.8	1.85
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	105.05	102.68
	0.017134698	0.018017141
% deviation from expected linearity		-4.897796416



LTE Band 41 Phablet Max Bottom Rear Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	27.3
Measured Output Power[dBm]	24.12	26.16
Measured SAR[W/kg]	0.483	0.486
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	163.46	178.85
	0.002954851	0.002717361
% deviation from expected linearity		8.739745292



17. Antenna Impedance tuner testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Per Oct.2020 TCBC Workshop Notes, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 60 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 60 states. The operational description contains more information about the design and implementation of the dynamic antenna tuning.

17.1 Head SAR Configuration

UMTS B5		CDMA BC0		LTE B12		LTE B13	
RMC		RC3 / SO55		QPSK, 1RB		QPSK, 1RB	
Test Position	Right Touch	Test Position	Right Touch	Test Position	Right Touch	Test Position	Right Touch
Frequency (MHz)	836.6	Frequency (MHz)	836.5	Frequency (MHz)	707.5	Frequency (MHz)	782
Channel	4183	Channel	384	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.205	Measured 1g SAR (W/kg)	0.244	Measured 1g SAR (W/kg)	0.164	Measured 1g SAR (W/kg)	0.193
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (02)	0.295	Auto-tune (01)	0.387	Auto-tune (54)	0.254	Auto-tune (55)	0.303
Default (State 0)	0.288	Default (0)	0.377	Default (State 0)	0.248	Default (State 0)	0.294
State 1	0.274	State 2	0.369	State 3	0.251	State 4	0.275
State 26	0.286	State 27	0.342	State 28	0.225	State 29	0.241
State 34	0.198	State 35	0.11	State 36	0.077	State 37	0.054
State 48	0.101	State 49	0.084	State 50	0.164	State 51	0.055

LTE B14		LTE B5/26		NR Band n5		NR Band n12	
QPSK, 1RB		QPSK, 1RB		DFT-s OFDM QPSK 1RB,1 offset		DFT-s OFDM QPSK 1RB,1 offset	
Test Position	Right Touch	Test Position	Right Touch	Test Position	Right Touch	Test Position	Right Touch
Frequency (MHz)	793	Frequency (MHz)	831.5 MHz	Frequency (MHz)	836.5	Frequency (MHz)	707.5 MHz
Channel	23330	Channel	26865	Channel	167300	Channel	141500
Measured 1g SAR (W/kg)	0.209	Measured 1g SAR (W/kg)	0.213	Measured 1g SAR (W/kg)	0.191	Measured 1g SAR (W/kg)	0.128
Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)	
Auto-tune (54)	0.351	Auto-tune (04)	0.388	Auto-tune (4)	0.241	Auto-tune (54)	0.208
Default (State 0)	0.334	Default (State 0)	0.375	Default (State 0)	0.229	Default (State 0)	0.197
State 5	0.298	State 6	0.234	State 7	0.178	State 8	0.151
State 30	0.284	State 31	0.235	State 32	0.144	State 33	0.169
State 38	0.104	State 39	0.244	State 40	0.23	State 41	0.149
State 52	0.327	State 53	0.356	State 54	0.236	State 56	0.119

UMTS B2		CDMA BC1		LTE B66/4	
RMC		RC3 / SO55		QPSK, 1RB	
Test Position	Left Touch	Test Position	Left Touch	Test Position	Left Touch
Frequency (MHz)	1880	Frequency (MHz)	1880	Frequency (MHz)	1745
Channel	9400	Channel	600	Channel	132322
Measured 1g SAR (W/kg)	0.218	Measured 1g SAR (W/kg)	0.238	Measured 1g SAR (W/kg)	0.205
Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)	
Auto-tune (01)	0.416	Auto-tune (14)	0.396	Auto-tune (01)	0.417
Default (State 0)	0.405	Default (State 0)	0.311	Default (State 0)	0.395
State 9	0.198	State 10	0.101	State 11	0.104
State 14	0.392	State 15	0.364	State 16	0.387
State 20	0.401	State 21	0.338	State 22	0.353
State 42	0.384	State 43	0.317	State 44	0.338
State 57	0.407	State 51	0.354	State 58	0.364

LTE B2/25		NR Band n66		NR Band n25	
QPSK, 1RB		DFT-s OFDM QPSK 1RB,1 offset		DFT-s OFDM QPSK 1RB,1 offset	
Test Position	Right Touch	Test Position	Left Touch	Test Position	Left Touch
Frequency (MHz)	1882.5	Frequency (MHz)	1745	Frequency (MHz)	1882.5
Channel	26365	Channel	349000	Channel	376500
Measured 1g SAR	0.117	Measured 1g SAR	0.274	Measured 1g SAR	0.241
(W/kg)		(W/kg)		(W/kg)	
Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)	
Auto-tune (15)	0.199	Auto-tune (01)	0.462	Auto-tune (14)	0.454
Default (State 0)	0.187	Default (State 0)	0.459	Default (State 0)	0.441
State 12	0.098	State 13	0.441	State 15	0.437
State 17	0.155	State 18	0.439	State 19	0.411
State 23	0.174	State 24	0.455	State 25	0.398
State 45	0.169	State 46	0.449	State 47	0.421
State 53	0.195	State 59	0.457	State 57	0.451

17.2 Body SAR Configuration

UMTS B5		CDMA BC0		LTE B12		LTE B13	
RMC		CDMA/EVDO Rev.0		QPSK, 1RB		QPSK, 1RB	
Test Position	Hotspot Rear 10mm	Test Position	Hotspot Rear, 10mm	Test Position	Hotspot ,Rear, 10mm	Test Position	Hotspot,Rear,10mm
Frequency (MHz)	836.6Mhz	Frequency (MHz)	848.32 MHz	Frequency (MHz)	707.5MHz	Frequency (MHz)	782Mhz
Channel	4183	Channel	777	Channel	23095	Channel	23230
Measured 1g SAR	0.612	Measured 1g SAR	0.714	Measured 1g SAR	0.447	Measured 1g SAR	0.5
(W/kg)		(W/kg)		(W/kg)		(W/kg)	
Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)	
Auto-tune (02)	0.781	Auto-tune (27)	0.912	Auto-tune (54)	0.702	Auto-tune (55)	0.782
Default (State 0)	0.711	Default (0)	0.896	Default (State 0)	0.653	Default (State 0)	0.742
State 1	0.734	State 2	0.911	State 3	0.688	State 4	0.716
State 26	0.698	State 30	0.751	State 28	0.531	State 29	0.695
State 34	0.341	State 35	0.221	State 36	0.234	State 37	0.31
State 48	0.143	State 49	0.144	State 50	0.129	State 51	0.121

LTE B14		LTE B5/26		NR Band n5		NR Band n12	
QPSK,1RB,0offset,		QPSK, 1RB		DFT-s OFDM QPSK 1RB,1 offset		DFT-s OFDM QPSK 1RB,1 offset	
Test Position	Hotspot,Rear,10mm	Test Position	Hotspot,Rear,10mm	Test Position	Hotspot,Rear,10mm	Test Position	Hotspot,Rear,10mm
Frequency (MHz)	793	Frequency (MHz)	836.5MHz	Frequency (MHz)	836.5	Frequency (MHz)	707.5 Mhz
Channel	23330	Channel	26865	Channel	167300	Channel	141500
Measured 1g SAR	0.631	Measured 1g SAR	0.573	Measured 1g SAR	0.529	Measured 1g SAR	0.36
(W/kg)		(W/kg)		(W/kg)		(W/kg)	
Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)	
Auto-tune (54)	0.855	Auto-tune (04)	0.831	Auto-tune (4)	0.789	Auto-tune (54)	0.571
Default (State 0)	0.785	Default (State 0)	0.815	Default (State 0)	0.714	Default (State 0)	0.541
State 5	0.732	State 6	0.651	State 7	0.521	State 8	0.481
State 30	0.598	State 31	0.513	State 32	0.617	State 33	0.411
State 38	0.103	State 39	0.71	State 40	0.774	State 41	0.322
State 52	0.762	State 53	0.809	State 54	0.732	State 56	0.51

UMTS B2		CDMA BC1		LTE B4/66	
RMC		RC3 / SO55		QPSK, 1RB,0 offset	
Test Position	Body worn, Rear,15mm	Test Position	Body worn, Rear,15mm	Test Position	Body worn, Rear,15mm
Frequency (MHz)	1852.4	Frequency (MHz)	1851.25	Frequency (MHz)	1720
Channel	9262	Channel	25	Channel	132072
Measured 1g SAR (W/kg)	0.962	Measured 1g SAR (W/kg)	0.93	Measured 1g SAR (W/kg)	0.842
Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)	
Auto-tune (14)	1.28	Auto-tune (14)	1.23	Auto-tune (01)	1.110
Default (State 0)	1.187	Default (State 0)	1.156	Default (State 0)	0.998
State 0	1.187	State 0	1.116	State 0	0.998
State 1	1.162	State 1	1.091	State 1	1.110
State 2	1.155	State 2	1.084	State 2	1.040
State 3	1.148	State 3	1.077	State 3	1.025
State 4	1.133	State 4	1.062	State 4	1.000
State 5	1.130	State 5	1.059	State 5	0.991
State 6	1.088	State 6	1.017	State 6	0.945
State 7	1.064	State 7	0.993	State 7	0.890
State 8	1.028	State 8	0.957	State 8	0.830
State 9	0.959	State 9	0.888	State 9	0.752
State 10	0.917	State 10	0.846	State 10	0.640
State 11	0.860	State 11	0.789	State 11	0.882
State 12	0.795	State 12	0.724	State 12	0.903
State 13	1.208	State 13	1.137	State 13	0.908
State 14	1.280	State 14	1.23	State 14	0.916
State 15	1.217	State 15	1.146	State 15	0.930
State 16	1.216	State 16	1.145	State 16	0.931
State 17	1.214	State 17	1.143	State 17	0.956
State 18	1.214	State 18	1.143	State 18	0.972
State 19	1.208	State 19	1.137	State 19	0.986
State 20	1.200	State 20	1.129	State 20	0.991
State 21	1.183	State 21	1.112	State 21	0.976
State 22	1.141	State 22	1.07	State 22	0.924
State 23	1.095	State 23	1.024	State 23	0.791
State 24	1.037	State 24	0.966	State 24	0.755
State 25	0.931	State 25	0.86	State 25	0.767
State 26	0.962	State 26	0.891	State 26	0.757
State 27	0.941	State 27	0.87	State 27	0.752
State 28	0.936	State 28	0.865	State 28	0.747
State 29	0.928	State 29	0.857	State 29	0.745
State 30	0.910	State 30	0.839	State 30	0.715
State 31	0.878	State 31	0.807	State 31	0.694
State 32	0.909	State 32	0.838	State 32	0.654
State 33	0.851	State 33	0.78	State 33	0.595
State 34	0.818	State 34	0.747	State 34	0.549
State 35	0.778	State 35	0.707	State 35	0.491
State 36	0.751	State 36	0.68	State 36	0.422
State 37	0.719	State 37	0.648	State 37	0.783
State 38	0.687	State 38	0.616	State 38	0.981
State 39	1.130	State 39	1.059	State 39	0.980

State 40	1.109	State 40	1.038	State 40	0.985
State 41	1.100	State 41	1.029	State 41	0.976
State 42	1.021	State 42	0.95	State 42	0.985
State 43	1.084	State 43	1.013	State 43	0.956
State 44	1.048	State 44	0.977	State 44	0.951
State 45	1.023	State 45	0.952	State 45	0.922
State 46	0.981	State 46	0.91	State 46	0.876
State 47	0.930	State 47	0.859	State 47	0.828
State 48	0.887	State 48	0.816	State 48	0.752
State 49	0.840	State 49	0.769	State 49	0.645
State 50	0.779	State 50	0.708	State 50	1.055
State 51	1.183	State 51	1.112	State 51	0.764
State 52	0.958	State 52	0.887	State 52	1.061
State 53	1.186	State 53	1.115	State 53	0.881
State 54	1.185	State 54	1.114	State 54	0.987
State 55	1.209	State 55	1.138	State 55	1.061
State 56	1.132	State 56	1.061	State 56	0.881
State 57	1.125	State 57	1.054	State 57	0.987
State 58	1.209	State 58	1.138	State 58	0.883
State 59	1.126	State 59	1.055	State 59	0.980

LTE B2/25		NR Band n66		NR Band n25	
QPSK, 50RB ,25 offset		DFT-s OFDM QPSK 1RB,1 offset		DFT-s OFDM QPSK 1RB,1 offset	
Test Position	Hotspot Bottom,10mm	Test Position	Hotspot Bottom,10mm	Test Position	Hotspot Bottom,10mm
Frequency (MHz)	1882.5	Frequency (MHz)	1745	Frequency (MHz)	1882.5
Channel	26365	Channel	349000	Channel	37650
Measured 1g SAR (W/kg)	0.699	Measured 1g SAR (W/kg)	1.02	Measured 1g SAR (W/kg)	0.805
Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)		Average Value ofTime Sweep (W/kg)	
Auto-tune (14)	0.894	Auto-tune (01)	1.32	Auto-tune (14)	1.25
Default (State 0)	0.847	Default (State 0)	1.267	Default (State 0)	1.137
State 0	0.847	State 0	1.263	State 0	1.137
State 1	0.822	State 1	1.32	State 1	1.129
State 2	0.815	State 2	1.255	State 2	1.119
State 3	0.808	State 3	1.24	State 3	1.11
State 4	0.793	State 4	1.225	State 4	1.098
State 5	0.790	State 5	1.206	State 5	1.101
State 6	0.748	State 6	1.16	State 6	1.063
State 7	0.724	State 7	1.105	State 7	1.031
State 8	0.688	State 8	1.045	State 8	0.987
State 9	0.619	State 9	0.967	State 9	0.922
State 10	0.577	State 10	0.855	State 10	0.873
State 11	0.520	State 11	1.097	State 11	0.803
State 12	0.455	State 12	1.118	State 12	0.719
State 13	0.868	State 13	1.123	State 13	1.136
State 14	0.894	State 14	1.131	State 14	1.25
State 15	0.877	State 15	1.145	State 15	1.157
State 16	0.876	State 16	1.146	State 16	1.155
State 17	0.874	State 17	1.171	State 17	1.153
State 18	0.874	State 18	1.187	State 18	1.154
State 19	0.868	State 19	1.201	State 19	1.155
State 20	0.860	State 20	1.206	State 20	1.151
State 21	0.843	State 21	1.191	State 21	1.141
State 22	0.801	State 22	1.139	State 22	1.105
State 23	0.755	State 23	1.006	State 23	1.062
State 24	0.697	State 24	0.97	State 24	0.992
State 25	0.591	State 25	0.982	State 25	0.876
State 26	0.622	State 26	0.972	State 26	0.893
State 27	0.601	State 27	0.967	State 27	0.881
State 28	0.596	State 28	0.962	State 28	0.871
State 29	0.588	State 29	0.96	State 29	0.875
State 30	0.570	State 30	0.93	State 30	0.86
State 31	0.538	State 31	0.909	State 31	0.861
State 32	0.569	State 32	0.869	State 32	0.83
State 33	0.511	State 33	0.81	State 33	0.804
State 34	0.478	State 34	0.764	State 34	0.767
State 35	0.438	State 35	0.706	State 35	0.716
State 36	0.411	State 36	0.637	State 36	0.682
State 37	0.379	State 37	0.998	State 37	0.638
State 38	0.347	State 38	1.196	State 38	0.593
State 39	0.790	State 39	1.195	State 39	1.088

State 40	0.769	State 40	1.2	State 40	1.078
State 41	0.760	State 41	1.191	State 41	1.071
State 42	0.681	State 42	1.2	State 42	1.104
State 43	0.744	State 43	1.171	State 43	1.048
State 44	0.708	State 44	1.166	State 44	1.041
State 45	0.683	State 45	1.137	State 45	1.014
State 46	0.641	State 46	1.091	State 46	0.994
State 47	0.590	State 47	1.043	State 47	0.948
State 48	0.547	State 48	0.967	State 48	0.886
State 49	0.500	State 49	0.86	State 49	0.839
State 50	0.439	State 50	1.27	State 50	0.779
State 51	0.843	State 51	0.979	State 51	0.699
State 52	0.618	State 52	1.276	State 52	1.141
State 53	0.846	State 53	1.096	State 53	0.89
State 54	0.845	State 54	1.202	State 54	1.145
State 55	0.869	State 55	1.276	State 55	0.89
State 56	0.792	State 56	1.096	State 56	1.152
State 57	0.785	State 57	1.202	State 57	1.1
State 58	0.869	State 58	1.098	State 58	1.153
State 59	0.786	State 59	1.195	State 59	1.08

18. 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.

19. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	Triple Modular Phantom	-	N/A	N/A	N/A
SPEAG	SAM Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60	F10/ 5D1CA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 0	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/5K3RA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F/20/0018446/C/001	N/A	N/A	N/A
Staubli	TX60 Lspeag	F10/ 5D1CA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	011578	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	11/5K3RA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F/20/0018446/A/001	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0123	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	011578	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1338 1332	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1203 0309	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	D21142608A	N/A	N/A	N/A
SPEAG	DAE4	868	09/29/2020	Annual	09/29/2021
SPEAG	DAE4	652	02/03/2020	Annual	02/03/2021
SPEAG	DAE3	504	02/26/2020	Annual	02/26/2021
SPEAG	DAE4	1225	08/07/2020	Annual	08/07/2021
SPEAG	DAE4	869	09/19/2019	Annual	09/19/2020
SPEAG	DAE4	1567	03/20/2020	Annual	03/20/2021
SPEAG	DAE4	446	07/29/2020	Annual	07/29/2021
SPEAG	DAE4	1417	02/26/2020	Annual	02/26/2021
SPEAG	DAE4	614	01/27/2020	Annual	01/27/2021
SPEAG	DAE4	648	05/25/2020	Annual	05/25/2021
SPEAG	DAE4	1629	08/11/2020	Annual	08/11/2021
SPEAG	E-Field Probe EX3DV4	3797	11/28/2019	Annual	11/28/2020
SPEAG	E-Field Probe EX3DV4	3903	03/25/2020	Annual	03/25/2021
SPEAG	E-Field Probe EX3DV4	7314	05/29/2020	Annual	05/29/2021
SPEAG	E-Field Probe EX3DV4	7370	08/31/2020	Annual	08/31/2021
SPEAG	E-Field Probe ET3DV6	1630	02/26/2020	Annual	02/26/2021
SPEAG	E-Field Probe EX3DV4	3697	03/26/2020	Annual	03/26/2021
SPEAG	E-Field Probe ES3DV3	3076	07/31/2020	Annual	07/31/2021
SPEAG	E-Field Probe ES3DV3	3967	08/20/2020	Annual	08/20/2021
SPEAG	E-Field Probe EX3DV4	3968	09/28/2020	Annual	09/28/2021
SPEAG	Dipole D750V3	1014	05/19/2020	Annual	05/19/2021
SPEAG	Dipole D835V2	4d266	08/27/2020	Annual	08/27/2021
SPEAG	Dipole D1800V2	2d007	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D1900V2	5d061	01/21/2020	Annual	01/21/2021
SPEAG	Dipole D2300V2	1010	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D2450V2	1049	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D2600V2	1015	08/26/2020	Annual	08/26/2021
SPEAG	Dipole D3500V2	1040	01/28/2020	Annual	01/28/2021
SPEAG	Dipole D3700V2	1066	12/31/2019	Annual	12/31/2020
SPEAG	Dipole D3900V2	1019	05/22/2020	Annual	05/22/2021
SPEAG	Dipole D5GHzV2	1253	08/31/2020	Annual	08/31/2021

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	Power Meter E4419B	MY41291386	10/23/2020	Annual	10/23/2021
Agilent	Power Meter N1911A	MY45101406	08/31/2020	Annual	08/31/2021
Agilent	Power Sensor 8481A	SG1091286	10/05/2020	Annual	10/05/2021
Agilent	Power Sensor 8481A	MY41090873	10/05/2020	Annual	10/05/2021
Agilent	Power Sensor N1921A	MY55220026	08/31/2020	Annual	08/31/2021
SPEAG	DAKS 3.5	1038	03/24/2020	Annual	03/24/2021
H.P	Network Analyzer /8753ES	JP39240221	01/28/2020	Annual	01/28/2021
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	10/06/2020	Annual	10/06/2021
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	08/06/2020	Annual	08/06/2021
Agilent	WIRELESS COMMUNICATION E5515C	GB44051865	06/01/2020	Annual	06/01/2021
Agilent	Signal Generator N5182A	MY47070230	05/06/2020	Annual	05/06/2021
Agilent	11636B/Power Divider	58698	02/28/2020	Annual	02/28/2021
TESTO	175-H1/Thermometer	40331936309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331953309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331939309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331915309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331922309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40332651310	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331949309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	44606559906	01/29/2020	Annual	01/29/2021
EMPOWER	RF Power Amplifier	1084	07/01/2020	Annual	07/01/2021
EMPOWER	RF Power Amplifier	1011	07/30/2020	Annual	07/30/2021
MICRO LAB	LP Filter / LA-15N	10453	10/07/2019	Annual	10/07/2020
MICRO LAB	LP Filter / LA-30N	-	10/07/2019	Annual	10/07/2020
MICRO LAB	LP Filter / LA-60N	32011	10/07/2019	Annual	10/07/2020
MICRO LAB	LP Filter / LA-15N	10453	10/05/2020	Annual	10/05/2021
MICRO LAB	LP Filter / LA-30N	-	10/05/2020	Annual	10/05/2021
MICRO LAB	LP Filter / LA-60N	32011	10/05/2020	Annual	10/05/2021
Agilent	Attenuator (3dB) 8693B	MY39260298	09/18/2020	Annual	09/18/2021
HP	Attenuator (20dB) 8493C	09271	09/18/2020	Annual	09/18/2021
Agilent	Directional Bridge	3140A03878	06/08/2020	Annual	06/08/2021
Agilent	Power Divider	10	07/15/2020	Annual	07/15/2021
Agilent	Power Divider	4	07/13/2020	Annual	07/13/2021
Agilent	Power Divider	2	07/13/2020	Annual	07/13/2021
Agilent	Power Divider	11	07/15/2020	Annual	07/15/2021
Agilent	MXA Signal Analyzer N9020A	MY50510407	10/23/2020	Annual	10/23/2021
HP	Dual Directional Coupler	16072	10/05/2020	Annual	10/05/2021
Anritsu	Radio Communication Tester MT8820C	6201074225	03/02/2020	Annual	03/02/2021
Anritsu	Radio Communication Tester MT8820C	6200695605	05/06/2020	Annual	05/06/2021
Anritsu	Radio Communication Tester MT8820C	6200628628	09/18/2020	Annual	09/18/2021
Anritsu	Radio Communication Tester MT8821C	6201502997	08/06/2020	Annual	08/06/2021
Anritsu	Radio Communication Tester MT8821C	6262044720	01/06/2020	Annual	01/06/2021
Anritsu	Radio Communication Test Station MT8000A	6262036812	01/06/2020	Annual	01/06/2021
R&S	Bluetooth CBT	100272	03/02/2020	Annual	03/02/2021

* 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.

20. 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

Please refer to test setup photo file no. as follows.

Appendix A. DUT Ant. Information & Test SETUP PHOTO

Appendix B. SAR Test Plots

Appendix C. Dipole Verification Plots

Appendix D. SAR Tissue Characterization

Appendix E. SAR System Validation

Appendix F. Probe Calibration Data

Appendix G. Dipole Calibration Data

Appendix H. Power reduction verification

Appendix I. DLCA Power Measurement

End of Report