

11.5 WIFI Conducted Power measurement method

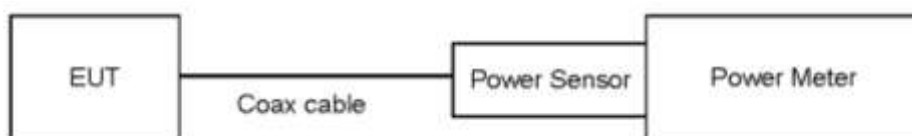
Un-Licensed Bands (DTS Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 558074 v05 - Section 8.3.2.3 - ANSI 63.10-2013 - Section 11.9.2.3

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



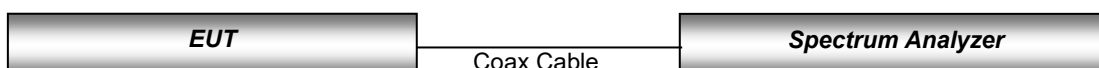
Un-Licensed Bands (NII Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 789033 D02 v02r01 - Section E.3.a

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



11.5.1 IEEE 802.11 (2.4 GHz) Maximum Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm]		
			WIFI 1	WIFI 2	MIMO
802.11b	2 412	1	17.86	17.27	20.59
	2 437	6	17.54	17.55	20.56
	2 462	11	17.85	17.27	20.58

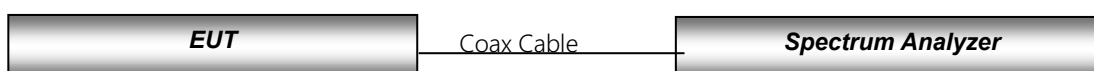
11.5.2 IEEE 802.11 (5 GHz) Maximum Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm]		
			WIFI 1	WIFI 2	MIMO
802.11a (20 MHz BW)	5 180	36	15.03	14.84	17.94
	5 200	40	14.78	14.66	17.73
	5 220	44	15.01	14.71	17.87
	5 240	48	14.88	14.75	17.82
	5 260	52	14.61	15.04	17.84
	5 280	56	14.60	15.05	17.84
	5 300	60	14.64	15.09	17.88
	5 320	64	14.31	14.79	17.57
	5 500	100	14.07	15.34	17.76
	5 600	120	14.97	15.95	18.50
	5 620	124	15.17	15.91	18.56
	5 720	144	15.15	15.94	18.57
	5 745	149	15.24	15.07	18.16
	5 785	157	15.31	15.11	18.22
	5 825	165	15.29	14.81	18.07
	5 846	169	15.48	14.69	18.11
	5 865	173	15.49	14.71	18.13
	5 885	177	15.07	14.27	17.70

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission mode with the same maximum output power specification, powers were measured for the largest channel Bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel Bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-Band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-Band channels, due to an even number of channels, both channels were measured.

Test Configuration



11.6 Bluetooth Maximum Conducted Power

The Burst Averaged-conducted power

Mode	Channel	Max. Average Conducted Power [dBm]	
		Ant.1	Ant.2
DH5	0	18.82	17.42
	39	18.51	17.72
	78	18.27	18.02
2-DH5	0	15.74	13.29
	39	15.59	13.80
	78	15.11	12.16
3-DH5	0	15.77	13.28
	39	15.60	13.81
	78	15.15	12.15

Per October 2016 TCB Workshop Notes:

When call box and Bluetooth protocol are used for Bluetooth SAR measurement, time-domain plot is required to identify duty factor for supporting the test setup and result.

Bluetooth duty cycle was measured using Bluetooth tester equipment (CBT / R&S) with Bluetooth.

Bluetooth DH 5 Mode



Duty Cycle

$$= (\text{BT-On time} / \text{BT-Full time}) = (2.879 / 3.751) = 0.768 \text{ (DH5)}$$

BT DH5 Maximum Duty Factor:

The theoretical maximum duty cycle defined by chipset manufacturer is 78.00 %. In the ideal theory Duty Cycle, the test error tolerance [1%] of the test equipment was considered and applied to the measurement results. The duty cycle of DH5 measured by DUT was 76.8%, and the duty cycle was compensated by applying test error tolerance 1%. For more information on BT , please refer to the technical description document.

12. System Verification

12.1 Tissue Verification

The head 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
04/24/2024	22.5	750H	705	0.866	43.290	0.889	42.174	-2.59	2.65
			710	0.872	43.220	0.890	42.148	-2.02	2.54
			750	0.902	42.630	0.893	41.940	1.01	1.65
04/23/2024	22.6	750H	705	0.864	43.600	0.889	42.174	-2.81	3.38
			710	0.872	43.530	0.890	42.148	-2.02	3.28
			750	0.911	42.934	0.893	41.940	2.02	2.37
04/26/2024	21.4	750H	750	0.902	42.635	0.893	41.940	1.01	1.66
			785	0.933	42.123	0.896	41.758	4.13	0.87
04/25/2024	21.1	750H	750	0.890	42.830	0.893	41.940	-0.34	2.12
			785	0.914	42.325	0.896	41.758	2.01	1.36
03/19/2024	21.4	835H	820	0.901	41.589	0.899	41.577	0.26	0.03
			835	0.919	41.338	0.900	41.500	2.11	-0.39
			850	0.930	41.021	0.916	41.500	1.49	-1.15
03/18/2024	20.0	835H	820	0.886	41.584	0.899	41.577	-1.47	0.02
			835	0.903	41.32	0.900	41.500	0.33	-0.43
			850	0.914	41.053	0.916	41.500	-0.21	-1.08
04/02/2024	23.3	835H	820	0.923	40.980	0.920	42.079	0.33	-2.61
			835	0.931	40.704	0.936	41.875	-0.53	-2.80
			850	0.946	40.490	0.951	41.674	-0.53	-2.84
04/01/2024	23.1	835H	820	0.921	40.890	0.920	42.079	0.11	-2.83
			835	0.935	40.691	0.936	41.875	-0.11	-2.83
			850	0.951	40.520	0.951	41.674	0.00	-2.77
03/15/2024	21.7	1800H	1 710	1.288	41.451	1.348	40.144	-4.45	3.26
			1 750	1.328	41.280	1.371	40.080	-3.14	2.99
			1 800	1.382	41.032	1.400	40.000	-1.29	2.58
04/12/2024	23.8	1800H	1710	1.299	41.510	1.348	40.144	-3.64	3.40
			1750	1.339	41.360	1.371	40.080	-2.33	3.19
			1800	1.390	41.100	1.400	40.000	-0.71	2.75
04/11/2024	24.0	1800H	1710	1.301	41.470	1.348	40.144	-3.49	3.30
			1750	1.342	41.300	1.371	40.080	-2.12	3.04
			1800	1.390	41.100	1.400	40.000	-0.71	2.75
04/23/2024	23.8	1800H	1710	1.303	41.520	1.348	40.144	-3.34	3.43
			1750	1.342	41.360	1.371	40.080	-2.12	3.19
			1800	1.390	41.100	1.400	40.000	-0.71	2.75
04/22/2024	24.0	1800H	1710	1.303	41.520	1.348	40.144	-3.34	3.43
			1750	1.342	41.360	1.371	40.080	-2.12	3.19
			1800	1.390	41.100	1.400	40.000	-0.71	2.75
04/16/2024	19.3	1900H	1850	1.400	40.143	1.400	40.000	-0.02	0.36
			1900	1.445	39.926	1.400	40.000	3.21	-0.18
			1910	1.452	39.880	1.400	40.000	3.75	-0.30
03/21/2024	22.0	1900H	1850	1.357	39.594	1.400	40.000	-3.05	-1.02
			1900	1.401	39.367	1.400	40.000	0.04	-1.58
			1910	1.409	39.329	1.400	40.000	0.62	-1.68
03/14/2024	21.7	1900H	1850	1.357	39.183	1.400	40.000	-3.10	-2.04
			1900	1.404	38.951	1.400	40.000	0.29	-2.62
			1910	1.409	38.863	1.400	40.000	0.61	-2.84

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
04/09/2024	23.2	1900H	1850	1.368	39.170	1.400	40.000	-2.29	-2.08
			1900	1.420	39.000	1.400	40.000	1.43	-2.50
			1910	1.425	38.910	1.400	40.000	1.79	-2.73
04/08/2024	23.2	1900H	1850	1.373	39.170	1.400	40.000	-1.93	-2.08
			1900	1.420	39.000	1.400	40.000	1.43	-2.50
			1910	1.430	38.910	1.400	40.000	2.14	-2.73
04/17/2024	23.8	1900H	1850	1.358	39.170	1.400	40.000	-3.00	-2.08
			1900	1.410	39.000	1.400	40.000	0.71	-2.50
			1910	1.415	38.910	1.400	40.000	1.07	-2.73
04/16/2024	22.5	1900H	1850	1.370	39.170	1.400	40.000	-2.14	-2.08
			1900	1.420	39.000	1.400	40.000	1.43	-2.50
			1910	1.427	38.910	1.400	40.000	1.93	-2.73
03/12/2024	22.2	2450H	2400	1.7983	39.154	1.756	39.290	2.41	-0.35
			2450	1.838	39.205	1.800	39.200	2.11	0.01
			2500	1.882	39.292	1.855	39.140	1.48	0.39
03/13/2024	22.0	2450H	2400	1.706	37.957	1.756	39.290	-2.85	-3.39
			2450	1.763	37.748	1.800	39.200	-2.06	-3.70
			2500	1.820	37.569	1.855	39.140	-1.89	-4.01
04/30/2024	22.6	2450H	2400	1.706	37.953	1.756	39.290	-2.83	-3.40
			2450	1.763	37.748	1.800	39.200	-2.06	-3.70
			2500	1.820	37.567	1.855	39.140	-1.88	-4.02
03/11/2024	21.2	2450H	2400	1.706	37.957	1.756	39.290	-2.83	-3.39
			2450	1.763	37.749	1.800	39.200	-2.06	-3.70
			2500	1.820	37.565	1.855	39.140	-1.88	-4.03
03/19/2024	19.1	2600H	2 500	1.862	38.691	1.855	39.14	0.38	-1.15
			2 600	1.958	38.265	1.964	39.01	-0.31	-1.91
			2 690	2.039	37.837	2.062	38.894	-1.12	-2.72
03/22/2024	19.5	2600H	2 500	1.876	39.051	1.855	39.14	1.13	-0.23
			2 600	1.971	38.622	1.964	39.01	0.36	-0.99
			2 690	2.051	38.165	2.062	38.894	-0.53	-1.87
03/23/2024	19.6	2600H	2 500	1.848	38.929	1.855	39.14	-0.38	-0.54
			2 600	1.942	38.511	1.964	39.01	-1.12	-1.28
			2 690	2.023	38.072	2.062	38.894	-1.89	-2.11
03/24/2024	19.0	2600H	2 500	1.882	39.294	1.855	39.14	1.46	0.39
			2 600	2.008	39.161	1.964	39.01	2.24	0.39
			2 690	2.115	38.356	2.062	38.894	2.57	-1.38

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
03/18/2024	21.3	5180H-5320H	5 180	4.557	37.178	4.635	36.010	-1.68	3.24
			5 250	4.690	37.001	4.706	35.930	-0.34	2.98
			5 280	4.738	36.992	4.737	35.894	0.02	3.06
			5 320	4.777	37.015	4.778	35.846	-0.02	3.26
03/18/2024	21.3	5500H-5600H	5 500	4.895	36.753	4.963	35.640	-1.37	3.12
			5 600	5.012	36.434	5.065	35.530	-1.05	2.54
			5 750	5.220	36.424	5.219	35.360	0.02	3.01
03/18/2024	21.3	5750H-5825H	5 750	5.220	36.424	5.219	35.360	0.02	3.01
			5 800	5.154	36.452	5.270	35.300	-2.20	3.26
			5 825	5.130	36.395	5.296	35.270	-3.13	3.19
03/18/2024	21.3	5800H-5885H	5 800	5.154	36.452	5.270	35.300	-2.20	3.26
			5 835	5.126	36.362	5.306	35.258	-3.39	3.13
			5 845	5.125	36.324	5.316	35.246	-3.59	3.06
			5 855	5.128	36.282	5.326	35.235	-3.72	2.97
			5 865	5.133	36.236	5.337	35.225	-3.82	2.87
			5 875	5.139	36.191	5.347	35.215	-3.89	2.77
			5 885	5.148	36.148	5.357	35.205	-3.90	2.68
03/19/2024	21.3	5180H-5320H	5 180	4.557	37.157	4.635	36.010	-1.68	3.19
			5 250	4.699	37.017	4.706	35.930	-0.15	3.03
			5 280	4.746	37.005	4.737	35.894	0.19	3.10
			5 320	4.790	37.014	4.778	35.846	0.25	3.26
03/19/2024	21.3	5500H-5600H	5 500	4.896	36.707	4.963	35.640	-1.35	2.99
			5 600	5.010	36.450	5.065	35.530	-1.09	2.59
			5 750	5.126	36.417	5.219	35.360	-1.78	2.99
03/19/2024	21.3	5750H-5825H	5 750	5.216	36.417	5.219	35.360	-0.06	2.99
			5 800	5.156	36.459	5.270	35.300	-2.16	3.28
			5 825	5.136	36.408	5.296	35.270	-3.02	3.23
03/19/2024	21.3	5800H-5885H	5 800	5.156	36.459	5.270	35.300	-2.16	3.28
			5 835	5.133	36.373	5.306	35.258	-3.26	3.16
			5 845	5.134	36.336	5.316	35.246	-3.42	3.09
			5 855	5.136	36.294	5.326	35.235	-3.57	3.01
			5 865	5.140	36.248	5.337	35.225	-3.69	2.90
			5 875	5.146	36.197	5.347	35.215	-3.76	2.79
			5 885	5.153	36.144	5.357	35.205	-3.81	2.67
03/12/2024	19.5	5180H-5320H	5 180	4.475	36.980	4.635	36.010	-3.45	2.69
			5 250	4.609	36.774	4.706	35.930	-2.06	2.35
			5 280	4.656	36.763	4.737	35.894	-1.71	2.42
			5 320	4.712	36.795	4.778	35.846	-1.38	2.65
03/13/2024	19.8	5500H-5600H	5 500	4.853	36.704	4.963	35.640	-2.22	2.99
			5 600	4.916	36.482	5.065	35.530	-2.94	2.68
			5 750	5.124	36.319	5.219	35.360	-1.82	2.71
03/14/2024	19.9	5750H-5825H	5 750	5.121	36.315	5.219	35.360	-1.88	2.70
			5 800	5.079	36.296	5.270	35.300	-3.62	2.82
			5 825	5.071	36.245	5.296	35.270	-4.25	2.76
03/15/2024	20.4	5750H-5825H	5 750	5.124	36.307	5.219	35.360	-1.82	2.68
			5 800	5.083	36.312	5.270	35.300	-3.55	2.87
			5 825	5.069	36.254	5.296	35.270	-4.29	2.79
03/18/2024	19.5	5800H-5885H	5 800	5.072	36.271	5.270	35.300	-3.76	2.75
			5 835	5.069	36.191	5.306	35.258	-4.46	2.65
			5 845	5.076	36.160	5.316	35.246	-4.52	2.59
			5 855	5.085	36.128	5.326	35.235	-4.53	2.53
			5 865	5.094	36.093	5.337	35.225	-4.55	2.46
			5 875	5.104	36.056	5.347	35.215	-4.54	2.39
			5 885	5.113	36.019	5.357	35.205	-4.55	2.31

◆ 5G NR SUB 6

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
03/29/2024	19.3	835H	820	0.908	41.000	0.899	41.577	1.00	-1.39
			835	0.920	40.763	0.900	41.500	2.22	-1.78
			850	0.933	40.480	0.916	41.500	1.86	-2.46
03/28/2024	19.2	835H	820	0.913	40.970	0.899	41.577	1.56	-1.46
			835	0.927	40.710	0.900	41.500	3.00	-1.90
			850	0.940	40.480	0.916	41.500	2.62	-2.46
04/14/2024	23.5	1800H	1710	1.301	41.460	1.348	40.144	-3.49	3.28
			1750	1.342	41.430	1.371	40.080	-2.12	3.37
			1800	1.390	41.200	1.400	40.000	-0.71	3.00
04/13/2024	23.3	1800H	1710	1.291	41.590	1.348	40.144	-4.23	3.60
			1750	1.333	41.440	1.371	40.080	-2.77	3.39
			1800	1.390	41.200	1.400	40.000	-0.71	3.00
04/26/2024	22.6	1800H	1710	1.299	41.640	1.348	40.144	-3.64	3.73
			1750	1.341	41.480	1.371	40.080	-2.19	3.49
			1800	1.390	41.300	1.400	40.000	-0.71	3.25
04/25/2024	22.8	1800H	1710	1.300	41.650	1.348	40.144	-3.56	3.75
			1750	1.340	41.520	1.371	40.080	-2.26	3.59
			1800	1.390	41.200	1.400	40.000	-0.71	3.00
04/20/2024	23.8	1900H	1850	1.343	39.230	1.400	40.000	-4.07	-1.93
			1900	1.390	39.000	1.400	40.000	-0.71	-2.50
			1910	1.398	38.970	1.400	40.000	-0.14	-2.58
04/19/2024	24.5	1900H	1850	1.342	39.230	1.400	40.000	-4.14	-1.93
			1900	1.390	39.000	1.400	40.000	-0.71	-2.50
			1910	1.398	38.970	1.400	40.000	-0.14	-2.58
04/29/2024	21.7	1900H	1850	1.336	39.240	1.400	40.000	-4.57	-1.90
			1900	1.370	39.000	1.400	40.000	-2.14	-2.50
			1910	1.376	38.970	1.400	40.000	-1.71	-2.58
04/28/2024	22.3	1900H	1850	1.336	39.240	1.400	40.000	-4.57	-1.90
			1900	1.370	39.000	1.400	40.000	-2.14	-2.50
			1910	1.377	38.980	1.400	40.000	-1.64	-2.55
03/28/2024	22.6	2600H	2500	1.883	39.277	1.855	39.14	1.51	0.35
			2600	2.008	39.135	1.964	39.01	2.24	0.32
			2690	2.114	38.335	2.062	38.894	2.52	-1.44
03/27/2024	21.9	2600H	2500	1.881	39.308	1.855	39.14	1.40	0.43
			2600	2.007	39.165	1.964	39.01	2.19	0.40
			2690	2.115	38.352	2.062	38.894	2.57	-1.39
04/02/2024	24.2	2600H	2500	1.883	39.283	1.855	39.14	1.51	0.37
			2600	2.007	39.142	1.964	39.01	2.19	0.34
			2690	2.114	38.338	2.062	38.894	2.52	-1.43
04/03/2024	24.0	2600H	2500	1.883	39.285	1.855	39.14	1.51	0.37
			2600	2.008	39.145	1.964	39.01	2.24	0.35
			2690	2.114	38.339	2.062	38.894	2.52	-1.43
04/04/2024	24.5	2600H	2500	1.883	39.28	1.855	39.14	1.51	0.36
			2600	2.008	39.145	1.964	39.01	2.24	0.35
			2690	2.114	38.347	2.062	38.894	2.52	-1.41

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
03/29/2024	21.9	3400H-3970H	3400	2.904	38.427	2.81	38.04	3.35	1.02
			3500	2.967	38.236	2.913	37.93	1.85	0.81
			3550	3.008	38.113	2.964	37.87	1.48	0.64
			3700	3.152	37.871	3.118	37.7	1.09	0.45
			3750	3.195	37.879	3.169	37.64	0.82	0.63
			3800	3.229	37.893	3.22	37.59	0.28	0.81
			3900	3.28	37.806	3.233	37.47	1.45	0.90
			3970	3.336	37.649	3.394	37.39	-1.71	0.69
04/01/2024	24.5	3400H-3970H	3400	2.852	37.421	2.81	38.04	1.49	-1.63
			3500	2.921	37.251	2.913	37.93	0.27	-1.79
			3550	2.956	37.179	2.964	37.87	-0.27	-1.82
			3700	3.072	36.956	3.118	37.7	-1.48	-1.97
			3750	3.12	36.784	3.169	37.64	-1.55	-2.27
			3800	3.231	36.896	3.22	37.59	0.34	-1.85
			3900	3.336	36.853	3.233	37.47	3.19	-1.65
			3970	3.294	36.554	3.394	37.39	-2.95	-2.24
04/05/2024	24.1	3400H-3970H	3400	2.868	36.865	2.81	38.04	2.06	-3.09
			3500	2.937	36.693	2.913	37.93	0.82	-3.26
			3550	2.976	36.617	2.964	37.87	0.40	-3.31
			3700	3.095	36.406	3.118	37.7	-0.74	-3.43
			3750	3.144	36.247	3.169	37.64	-0.79	-3.70
			3800	3.255	36.374	3.22	37.59	1.09	-3.23
			3900	3.359	36.332	3.233	37.47	3.90	-3.04
			3970	3.315	36.008	3.394	37.39	-2.33	-3.70
04/08/2024	23.9	3400H-3970H	3400	2.846	37.331	2.81	38.04	1.28	-1.86
			3500	2.912	37.155	2.913	37.93	-0.03	-2.04
			3550	2.951	37.069	2.964	37.87	-0.44	-2.12
			3700	3.071	36.863	3.118	37.7	-1.51	-2.22
			3750	3.118	36.689	3.169	37.64	-1.61	-2.53
			3800	3.228	36.812	3.22	37.59	0.25	-2.07
			3900	3.33	36.793	3.233	37.47	3.00	-1.81
			3970	3.287	36.475	3.394	37.39	-3.15	-2.45
04/09/2024	24.5	3400H-3970H	3400	2.845	37.347	2.81	38.04	1.25	-1.82
			3500	2.912	37.172	2.913	37.93	-0.03	-2.00
			3550	2.95	37.091	2.964	37.87	-0.47	-2.06
			3700	3.069	36.864	3.118	37.7	-1.57	-2.22
			3750	3.117	36.697	3.169	37.64	-1.64	-2.51
			3800	3.227	36.827	3.22	37.59	0.22	-2.03
			3900	3.329	36.808	3.233	37.47	2.97	-1.77
			3970	3.287	36.493	3.394	37.39	-3.15	-2.40
05/03/2024	19.6	3400H-3970H	3400	2.833	37.956	2.81	38.04	0.82	-0.22
			3500	2.904	37.766	2.913	37.93	-0.31	-0.43
			3550	2.945	37.692	2.964	37.87	-0.64	-0.47
			3700	3.075	37.545	3.118	37.7	-1.38	-0.41
			3750	3.114	37.521	3.169	37.64	-1.74	-0.32
			3800	3.151	37.490	3.22	37.59	-2.14	-0.27
			3900	3.218	37.329	3.233	37.47	-0.46	-0.38
			3970	3.277	37.195	3.394	37.39	-3.45	-0.52

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
05/03/2024	23.5	3400H-3970H	3400	2.817	38.644	2.810	38.04	0.25	1.59
			3500	2.886	38.454	2.913	37.93	-0.93	1.38
			3550	2.927	38.380	2.964	37.87	-1.25	1.35
			3700	3.057	38.232	3.118	37.70	-1.96	1.41
			3750	3.095	38.209	3.169	37.64	-2.34	1.51
			3800	3.133	38.177	3.220	37.59	-2.70	1.56
			3900	3.199	38.016	3.233	37.47	-1.05	1.46
			3970	3.258	37.882	3.394	37.39	-4.01	1.32

◆ Extremity

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
04/04/2024	18.4	13H	12	0.730	54.368	0.750	55.000	-2.67	-1.15
			13	0.735	54.495	0.750	55.000	-2.00	-0.92
			14	0.740	54.502	0.750	55.000	-1.33	-0.91
04/15/2024	22.5	1800H	1710	1.290	41.570	1.348	40.144	-4.30	3.55
			1750	1.331	41.410	1.371	40.080	-2.92	3.32
			1800	1.380	41.200	1.400	40.000	-1.43	3.00
04/23/2024	23.8	1800H	1710	1.303	41.520	1.348	40.144	-3.34	3.43
			1750	1.342	41.360	1.371	40.080	-2.12	3.19
			1800	1.390	41.100	1.400	40.000	-0.71	2.75
04/24/2024	23.7	1800H	1710	1.291	41.600	1.348	40.144	-4.23	3.63
			1750	1.331	41.460	1.371	40.080	-2.92	3.44
			1800	1.380	41.200	1.400	40.000	-1.43	3.00
04/27/2024	22.7	1800H	1710	1.290	41.630	1.348	40.144	-4.30	3.70
			1750	1.331	41.490	1.371	40.080	-2.92	3.52
			1800	1.380	41.300	1.400	40.000	-1.43	3.25
04/10/2024	22.5	1900H	1850	1.345	39.230	1.400	40.000	-3.93	-1.93
			1900	1.370	39.000	1.400	40.000	-2.14	-2.50
			1910	1.376	38.970	1.400	40.000	-1.71	-2.58
04/17/2024	23.8	1900H	1850	1.358	39.170	1.400	40.000	-3.00	-2.08
			1900	1.410	39.000	1.400	40.000	0.71	-2.50
			1910	1.415	38.910	1.400	40.000	1.07	-2.73
04/21/2024	23.7	1900H	1850	1.332	39.240	1.400	40.000	-4.86	-1.90
			1900	1.380	39.000	1.400	40.000	-1.43	-2.50
			1910	1.387	38.970	1.400	40.000	-0.93	-2.58
04/30/2024	21.8	1900H	1850	1.342	39.230	1.400	40.000	-4.14	-1.93
			1900	1.380	39.000	1.400	40.000	-1.43	-2.50
			1910	1.398	38.970	1.400	40.000	-0.14	-2.58

12.2 System Verification

Input Power: 50 mW

Freq.	Date	Probe	Dipole	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR _{1g} (SPEAG)	50mW Measured SAR _{1g}	1 W Normalized SAR _{1g}	Deviation	Limit
[MHz]		(S/N)	(S/N)		[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
750	04/24/2024	7702	1014	Head	22.8	22.5	8.59	0.445	8.90	3.61	± 10
750	04/23/2024	7702		Head	22.8	22.6	8.59	0.45	9.00	4.77	± 10
750	04/26/2024	7702		Head	21.5	21.4	8.59	0.444	8.88	3.38	± 10
750	04/25/2024	7702		Head	21.0	21.1	8.59	0.439	8.78	2.21	± 10
835	03/19/2024	7681	4d165	Head	21.5	21.4	9.74	0.503	10.06	+ 3.29	± 10
835	03/18/2024	7681		Head	20.1	20.0	9.74	0.497	9.94	+ 2.05	± 10
835	04/02/2024	7702		Head	23.7	23.3	9.74	0.505	10.1	+ 3.70	± 10
835	04/01/2024	7702		Head	23.2	23.1	9.74	0.507	10.14	+ 4.11	± 10
1 800	03/15/2024	7681	2d015	Head	21.8	21.7	37.8	1.77	35.4	- 6.35	± 10
1 800	04/12/2024	3968		Head	24.0	23.8	37.8	1.74	34.8	- 7.94	± 10
1 800	04/11/2024	3968		Head	24.1	24.0	37.8	1.74	34.8	- 7.94	± 10
1 800	04/23/2024	3968		Head	24.0	23.8	37.8	1.74	34.8	- 7.94	± 10
1 800	04/22/2024	3968		Head	24.1	24.0	37.8	1.74	34.8	- 7.94	± 10
1 900	04/16/2024	7681	5d032	Head	19.4	19.3	40.2	2.03	40.6	+ 1.00	± 10
1 900	03/21/2024	7681		Head	22.1	22.0	40.2	1.97	39.4	- 1.99	± 10
1 900	03/14/2024	7681		Head	21.8	21.7	40.2	1.97	39.4	- 1.99	± 10
1 900	04/09/2024	3968		Head	23.3	23.2	40.2	1.98	39.6	- 1.49	± 10
1 900	04/08/2024	3968		Head	23.4	23.2	40.2	1.99	39.8	- 1.00	± 10
1 900	04/17/2024	3968		Head	24.0	23.8	40.2	1.97	39.4	- 1.99	± 10
1 900	04/16/2024	3968		Head	22.6	22.5	40.2	1.98	39.6	- 1.49	± 10
2 450	03/12/2024	7654	1049	Head	22.3	22.2	52.7	2.5	50.00	-5.12	± 10
2 450	03/13/2024	7654		Head	22.1	22.0	52.7	2.53	50.60	-3.98	± 10
2 450	04/30/2024	7654		Head	22.6	22.6	52.7	2.5	50.00	-5.12	± 10
2 450	03/11/2024	7654		Head	21.3	21.2	52.7	2.51	50.20	-4.74	± 10
2 600	03/19/2024	3797	1106	Head	19.3	19.1	55.6	2.57	51.40	-7.55	± 10
2 600	03/22/2024	3797		Head	19.7	19.5	55.6	2.58	51.60	-7.19	± 10
2 600	03/23/2024	3797		Head	19.9	19.6	55.6	2.54	50.80	-8.63	± 10
2 600	03/24/2024	3797		Head	19.2	19.0	55.6	2.63	52.60	-5.40	± 10
5 250	03/18/2024	7751	1317	Head	21.4	21.3	78.8	3.9	78.00	-1.02	± 10
5 600	03/18/2024	7751		Head	21.4	21.3	81.2	3.85	77.00	-5.17	± 10
5 750	03/18/2024	7751		Head	21.4	21.3	77.4	3.7	74.00	-4.39	± 10
5 800	03/18/2024	7751		Head	21.4	21.3	76.9	3.92	78.40	1.95	± 10
5 250	03/19/2024	7751		Head	21.4	21.3	78.8	3.87	77.40	-1.78	± 10
5 600	03/19/2024	7751		Head	21.4	21.3	81.2	3.82	76.40	-5.91	± 10
5 750	03/19/2024	7751		Head	21.4	21.3	77.4	3.71	74.20	-4.13	± 10
5 800	03/19/2024	7751		Head	21.4	21.3	76.9	3.93	78.60	2.21	± 10
5 250	03/12/2024	7751		Head	19.6	19.5	78.8	3.93	78.60	-0.25	± 10
5 600	03/13/2024	7751		Head	19.9	19.8	81.2	4.26	85.20	4.93	± 10
5 750	03/14/2024	7751		Head	20.0	19.9	77.4	3.98	79.60	2.84	± 10
5 750	03/15/2024	7751		Head	20.5	20.4	77.4	3.98	79.60	2.84	± 10
5 800	03/18/2024	7751		Head	19.6	19.5	76.9	4.06	81.20	5.59	± 10

◆ System Verification Results - 5G NR SUB 6

Input Power: 50 mW

Freq.	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR _{1a} (SPEAG)	50mW Measured SAR _{1g}	1 W Normalized SAR _{1g}	Deviation	Limit
[MHz]					[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
835	03/29/2024	7702	4d165	Head	19.4	19.3	9.74	0.496	9.92	+ 1.85	± 10
835	03/28/2024	7702		Head	19.3	19.2	9.74	0.501	10.02	+ 2.87	± 10
1 800	04/14/2024	3968	2d015	Head	23.6	23.5	37.8	1.74	34.8	- 7.94	± 10
1 800	04/13/2024	3968		Head	23.5	23.3	37.8	1.73	34.6	- 8.47	± 10
1 800	04/26/2024	3968		Head	22.7	22.6	37.8	2.07	41.4	+ 9.52	± 10
1 800	04/25/2024	3968		Head	23.0	22.8	37.8	2.07	41.4	+ 9.52	± 10
1 900	04/20/2024	3968	5d032	Head	24.0	23.8	40.2	1.94	38.8	- 3.48	± 10
1 900	04/19/2024	3968		Head	24.7	24.5	40.2	1.94	38.8	- 3.48	± 10
1 900	04/29/2024	3968		Head	21.8	21.7	40.2	1.93	38.6	- 3.98	± 10
1 900	04/28/2024	3968		Head	22.4	22.3	40.2	1.93	38.6	- 3.98	± 10
2 600	03/27/2024	3903	1106	Head	22.1	21.9	55.6	2.73	54.6	- 1.80	± 10
2 600	03/28/2024	3903		Head	22.7	22.6	55.6	2.79	55.8	+ 0.36	± 10
2 600	04/02/2024	7655		Head	24.5	24.2	55.6	2.60	52.0	- 6.47	± 10
2 600	04/03/2024	7655		Head	24.4	24.0	55.6	2.62	52.4	- 5.76	± 10
2 600	04/04/2024	7655		Head	24.7	24.5	55.6	2.62	52.4	- 5.76	± 10
3 500	04/01/2024	7655	1132	Head	24.8	24.5	65.1	3.12	62.4	- 4.15	± 10
3 500	03/29/2024	7655		Head	22.1	21.9	65.1	3.17	63.4	- 2.61	± 10
3 500	04/05/2024	7655		Head	24.5	24.1	65.1	3.14	62.8	- 3.53	± 10
3 500	04/08/2024	7655		Head	24.2	23.9	65.1	3.10	62.0	- 4.76	± 10
3 500	04/09/2024	7655		Head	24.8	24.5	65.1	3.11	62.2	- 4.45	± 10
3 500	05/03/2024	7655		Head	23.6	23.5	65.1	3.29	65.8	+ 1.08	± 10
3 500	05/03/2024	7654		Head	19.7	19.6	65.1	3.28	65.6	+ 0.77	± 10
3 700	04/01/2024	7655		Head	24.8	24.5	67.1	3.48	69.6	+ 3.73	± 10
3 700	03/29/2024	7655	1105	Head	22.1	21.9	67.1	3.54	70.8	+ 5.51	± 10
3 700	04/05/2024	7655		Head	24.5	24.1	67.1	3.48	69.6	+ 3.73	± 10
3 700	04/08/2024	7655		Head	24.2	23.9	67.1	3.44	68.8	+ 2.53	± 10
3 700	04/09/2024	7655		Head	24.8	24.5	67.1	3.45	69.0	+ 2.83	± 10
3 700	05/03/2024	7655		Head	23.6	23.5	67.1	3.36	67.2	+ 0.15	± 10
3 700	05/03/2024	7654		Head	19.7	19.6	67.1	3.23	64.6	- 3.72	± 10
3 900	04/01/2024	7655	1019	Head	24.8	24.5	69.7	3.43	68.6	- 1.58	± 10
3 900	03/29/2024	7655		Head	22.1	21.9	69.7	3.36	67.2	- 3.59	± 10
3 900	04/05/2024	7655		Head	24.5	24.1	69.7	3.47	69.4	- 0.43	± 10
3 900	04/08/2024	7655		Head	24.2	23.9	69.7	3.43	68.6	- 1.58	± 10
3 900	04/09/2024	7655		Head	24.8	24.5	69.7	3.41	68.2	- 2.15	± 10
3 900	05/03/2024	7655		Head	23.6	23.5	69.7	3.52	70.4	+ 1.00	± 10
3 900	05/03/2024	7654		Head	19.7	19.6	69.7	3.32	66.4	- 4.73	± 10

◆ System Verification Results – Extremity SAR

Input Power: 50 mW

Freq.	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR _{10g} (SPEAG)	50Mw Measured SAR _{10g}	1 W Normalized SAR _{10g}	Deviation	Limit
[MHz]					[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
13	04/04/2024	3076	1016	Head	18.4	18.4	0.343	0.0168	0.336	- 2.04	± 10
1 800	03/15/2024	7681	2d015	Head	21.8	21.7	19.7	0.938	18.76	- 4.77	± 10
1 800	04/15/2024	3968		Head	22.6	22.5	19.7	0.914	18.28	- 7.21	± 10
1 800	04/23/2024	3968		Head	24.0	23.8	19.7	0.921	18.42	- 6.50	± 10
1 800	04/24/2024	3968		Head	24.0	23.7	19.7	1.07	21.4	+ 8.63	± 10
1 800	04/27/2024	3968		Head	22.8	22.7	19.7	1.07	21.4	+ 8.63	± 10
1 900	03/14/2024	7681	5d032	Head	21.8	21.7	21.0	1.03	20.6	- 1.90	± 10
1 900	04/10/2024	3968		Head	22.7	22.5	21.0	0.983	19.66	- 6.38	± 10
1 900	04/17/2024	3968		Head	24.0	23.8	21.0	1.01	20.2	- 3.81	± 10
1 900	04/21/2024	3968		Head	23.8	23.7	21.0	1.00	20.0	- 4.76	± 10
1 900	04/30/2024	3968		Head	21.9	21.8	21.0	1.01	20.2	- 3.81	± 10
2 450	03/11/2024	7654	1049	Head	21.3	21.2	24.6	1.14	22.8	-7.32	± 10
5 250	03/12/2024	7751	1317	Head	19.6	19.5	22.6	1.12	22.4	- 0.88	± 10
5 600	03/13/2024	7751		Head	19.9	19.8	23.0	1.20	24.0	+ 4.35	± 10
5 800	03/18/2024	7751		Head	19.6	19.5	21.8	1.14	22.8	+ 4.59	± 10

12.3 System Verification Procedure

SAR measurement was prior to assessment the system is verified to the ± 10 % of the specifications at each frequency Band by using the system verification kit. (Graphic Plots Attached)

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

Note;

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

13. SAR Test Data Summary

13.1 SAR Measurement Results

GSM 850 Head SAR													
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
836.6	190	GSM Voice	A	32.0	30.26	-0.07	Left Touch	1:8.3		0.111	1.493	0.166	-
836.6	190	GSM Voice	A	32.0	30.26	0.15	Left Tilt	1:8.3		0.065	1.493	0.097	-
836.6	190	GSM Voice	A	32.0	30.26	0.01	Right Touch	1:8.3		0.145	1.493	0.216	A1
836.6	190	GSM Voice	A	32.0	30.26	0.11	Right Tilt	1:8.3		0.067	1.493	0.100	-
836.6	190	GPRS 4Tx	A	27.0	26.26	-0.05	Left Touch	1:2.07		0.120	1.186	0.142	-
836.6	190	GPRS 4Tx	A	27.0	26.26	-0.07	Left Tilt	1:2.07		0.078	1.186	0.093	-
836.6	190	GPRS 4Tx	A	27.0	26.26	-0.08	Right Touch	1:2.07		0.145	1.186	0.172	-
836.6	190	GPRS 4Tx	A	27.0	26.26	0.06	Right Tilt	1:2.07		0.079	1.186	0.094	-
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													
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
1909.8	810	GSM	A	29.0	27.86	0.00	Left Touch	1:8.3		0.020	1.300	0.026	-
1909.8	810	GSM	A	29.0	27.86	-0.09	Left Tilt	1:8.3		0.014	1.300	0.018	-
1909.8	810	GSM	A	29.0	27.86	0.11	Right Touch	1:8.3		0.015	1.300	0.020	-
1909.8	810	GSM	A	29.0	27.86	-0.09	Right Tilt	1:8.3		0.015	1.300	0.020	-
1880	661	GPRS 4Tx	A	24.5	23.54	0.00	Left Touch	1:2.07		0.036	1.247	0.045	A2
1880	661	GPRS 4Tx	A	24.5	23.54	0.17	Left Tilt	1:2.07		0.01	1.247	0.012	-
1880	661	GPRS 4Tx	A	24.5	23.54	0.19	Right Touch	1:2.07		0.016	1.247	0.020	-
1880	661	GPRS 4Tx	A	24.5	23.54	0.17	Right Tilt	1:2.07		0.00881	1.247	0.011	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

UMTS Band 5 Head SAR													
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
836.6	4183	RMC	A	23.4	22.59	-0.14	Left Touch	1:1		0.164	1.205	0.198	-
836.6	4183	RMC	A	23.4	22.59	0.10	Left Tilt	1:1		0.087	1.205	0.105	-
836.6	4183	RMC	A	23.4	22.59	-0.14	Right Touch	1:1		0.185	1.205	0.223	A3
836.6	4183	RMC	A	23.4	22.59	-0.16	Right Tilt	1:1		0.071	1.205	0.086	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

UMTS Band 4 Head SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
1752.6	1513	RMC	A	22.4	21.22	0.00	Left Touch	1:1		0.036	1.312	0.047	-
1752.6	1513	RMC	A	22.4	21.22	0.16	Left Tilt	1:1		0.024	1.312	0.031	-
1752.6	1513	RMC	A	22.4	21.22	-0.13	Right Touch	1:1		0.039	1.312	0.051	A4
1752.6	1513	RMC	A	22.4	21.22	-0.10	Right Tilt	1:1		0.027	1.312	0.035	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

UMTS Band 2 Head SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
1880	9400	RMC	A	21.9	21.04	0.10	Left Touch	1:1		0.052	1.219	0.063	A5
1880	9400	RMC	A	21.9	21.04	-0.19	Left Tilt	1:1		0.023	1.219	0.028	-
1880	9400	RMC	A	21.9	21.04	-0.04	Right Touch	1:1		0.021	1.219	0.026	-
1880	9400	RMC	A	21.9	21.04	0.17	Right Tilt	1:1		0.025	1.219	0.030	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

LTE FDD Band 12 Head SAR

Frequency		Mode	Ant.	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
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(W/kg)	(W/kg)	No					
707.5	23095	QPSK	A	10	24.5	24.14	-0.10	Left Touch	0	1	0	1:1		0.150	1.086	0.163	-
707.5	23095	QPSK	A	10	23.5	23.15	0.10	Left Touch	1	25	0	1:1		0.114	1.084	0.124	-
707.5	23095	QPSK	A	10	24.5	24.14	-0.13	Left Tilt	0	1	0	1:1		0.096	1.086	0.104	-
707.5	23095	QPSK	A	10	23.5	23.15	-0.15	Left Tilt	1	25	0	1:1		0.075	1.084	0.081	-
707.5	23095	QPSK	A	10	24.5	24.14	0.17	Right Touch	0	1	0	1:1		0.156	1.086	0.169	A6
707.5	23095	QPSK	A	10	23.5	23.15	0.04	Right Touch	1	25	0	1:1		0.125	1.084	0.136	-
707.5	23095	QPSK	A	10	24.5	24.14	0.03	Right Tilt	0	1	0	1:1		0.086	1.086	0.093	-
707.5	23095	QPSK	A	10	23.5	23.15	-0.16	Right Tilt	1	25	0	1:1		0.077	1.084	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 FDD Band 13 Head SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(W/kg)	(W/kg)	(W/kg)					
782	23230	QPSK	A	10	24.5	23.82	0.13	Left Touch	0	1	24	1:1		0.064	1.169	0.075	-
782	23230	QPSK	A	10	23.5	22.80	0.10	Left Touch	1	25	12	1:1		0.049	1.175	0.058	-
782	23230	QPSK	A	10	24.5	23.82	0.14	Left Tilt	0	1	24	1:1		0.040	1.169	0.047	-
782	23230	QPSK	A	10	23.5	22.80	0.18	Left Tilt	1	25	12	1:1		0.029	1.175	0.034	-
782	23230	QPSK	A	10	24.5	23.82	-0.14	Right Touch	0	1	24	1:1		0.073	1.169	0.085	A7
782	23230	QPSK	A	10	23.5	22.80	0.17	Right Touch	1	25	12	1:1		0.055	1.175	0.065	-
782	23230	QPSK	A	10	24.5	23.82	-0.18	Right Tilt	0	1	24	1:1		0.040	1.169	0.047	-
782	23230	QPSK	A	10	23.5	22.80	-0.12	Right Tilt	1	25	12	1:1		0.029	1.175	0.034	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 25 (PCS) Head SAR

Frequency		Mode	Ant.	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.																
1905	26590	QPSK	A	20	23.3	22.31	-0.01	Left Touch	0	1	99	1:1		0.137	1.172	0.172	-
1905	26590	QPSK	A	20	22.3	21.22	-0.01	Left Touch	1	50	49	1:1		0.111	1.197	0.142	-
1905	26590	QPSK	A	20	23.3	22.31	-0.06	Left Tilt	0	1	99	1:1		0.036	1.172	0.045	-
1905	26590	QPSK	A	20	22.3	21.22	-0.09	Left Tilt	1	50	49	1:1		0.023	1.197	0.029	-
1905	26590	QPSK	A	20	23.3	22.31	0.15	Right Touch	0	1	99	1:1		0.054	1.172	0.068	-
1905	26590	QPSK	A	20	22.3	21.22	0.06	Right Touch	1	50	49	1:1		0.041	1.197	0.053	-
1905	26590	QPSK	A	20	23.3	22.31	-0.17	Right Tilt	0	1	99	1:1		0.023	1.172	0.029	-
1905	26590	QPSK	A	20	22.3	21.22	-0.15	Right Tilt	1	50	49	1:1		0.025	1.197	0.032	-
1860	26140	QPSK	I	20	16.0	15.31	0.16	Left Touch	0	1	49	1:1		0.366	1.172	0.429	-
1905	26590	QPSK	I	20	16.0	15.07	0.04	Left Touch	0	50	25	1:1		0.407	1.239	0.504	A8
1860	26140	QPSK	I	20	16.0	15.31	0.19	Left Tilt	0	1	49	1:1		0.097	1.172	0.114	-
1905	26590	QPSK	I	20	16.0	15.07	0.16	Left Tilt	0	50	25	1:1		0.104	1.239	0.129	-
1860	26140	QPSK	I	20	16.0	15.31	-0.01	Right Touch	0	1	49	1:1		0.094	1.172	0.110	-
1905	26590	QPSK	I	20	16.0	15.07	0.08	Right Touch	0	50	25	1:1		0.099	1.239	0.123	-
1860	26140	QPSK	I	20	16.0	15.31	-0.07	Right Tilt	0	1	49	1:1		0.046	1.172	0.054	-
1905	26590	QPSK	I	20	16.0	15.07	0.19	Right Tilt	0	50	25	1:1		0.039	1.239	0.048	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 26 (Cell) Head SAR

Frequency		Mode	Ant.	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.																
831.5	26865	QPSK	A	15	24.5	23.85	-0.10	Left Touch	0	1	36	1:1		0.011	1.161	0.013	-
831.5	26865	QPSK	A	15	23.5	22.64	0.00	Left Touch	1	36	0	1:1		0.00989	1.219	0.012	-
831.5	26865	QPSK	A	15	24.5	23.85	-0.07	Left Tilt	0	1	36	1:1		0.096	1.161	0.111	-
831.5	26865	QPSK	A	15	23.5	22.64	0.13	Left Tilt	1	36	0	1:1		0.069	1.219	0.084	-
831.5	26865	QPSK	A	15	24.5	23.85	-0.19	Right Touch	0	1	36	1:1		0.181	1.161	0.210	A9
831.5	26865	QPSK	A	15	23.5	22.64	0.19	Right Touch	1	36	0	1:1		0.130	1.219	0.158	-
831.5	26865	QPSK	A	15	24.5	23.85	0.13	Right Tilt	0	1	36	1:1		0.081	1.161	0.094	-
831.5	26865	QPSK	A	15	23.5	22.64	-0.13	Right Tilt	1	36	0	1:1		0.059	1.219	0.072	-
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

Frequency		Mode	Ant.	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.																
2 506	39750	QPSK	B	20	22.0	21.39	0.00	Left Touch	0	1	0	1:1.58		0.017	1.151	0.020	-
2 506	39750	QPSK	B	20	21.0	20.36	0.00	Left Touch	0	50	0	1:1.58		0.013	1.159	0.015	-
2 506	39750	QPSK	B	20	22.0	21.39	-0.18	Left Tilt	0	1	0	1:1.58		0.00641	1.151	0.007	-
2 506	39750	QPSK	B	20	21.0	20.36	0.09	Left Tilt	0	50	0	1:1.58		0.00397	1.159	0.005	-
2 506	39750	QPSK	B	20	22.0	21.39	-0.10	Right Touch	0	1	0	1:1.58		0.013	1.151	0.015	-
2 506	39750	QPSK	B	20	21.0	20.36	0.00	Right Touch	0	50	0	1:1.58		0.010	1.159	0.012	-
2 506	39750	QPSK	B	20	22.0	21.39	-0.13	Right Tilt	0	1	0	1:1.58		0.011	1.151	0.013	-
2 506	39750	QPSK	B	20	21.0	20.36	0.18	Right Tilt	0	50	0	1:1.58		0.00709	1.159	0.008	-
2 506	39750	QPSK	B	20	25.0	24.25	-0.01	Left Touch	0	1	0	1:2.31		0.013	1.189	0.015	-
2549.5	40185	QPSK	I	20	16.8	16.02	0.13	Left Touch	0	1	0	1:1.58		0.630	1.197	0.754	-
2506.0	39750	QPSK	I	20	16.8	15.99	-0.13	Left Touch	0	1	0	1:1.58		0.533	1.205	0.642	-
2593.0	40620	QPSK	I	20	16.8	16.00	0.15	Left Touch	0	1	0	1:1.58		0.719	1.202	0.864	-
2636.5	41055	QPSK	I	20	16.8	15.94	0.13	Left Touch	0	1	0	1:1.58		0.711	1.219	0.867	-
2680.0	41490	QPSK	I	20	16.8	15.88	-0.13	Left Touch	0	1	0	1:1.58		0.640	1.236	0.791	-
2549.5	40185	QPSK	I	20	16.8	15.99	0.06	Left Touch	0	50	0	1:1.58		0.604	1.205	0.728	-
2506.0	39750	QPSK	I	20	16.8	15.95	0.09	Left Touch	0	50	25	1:1.58		0.509	1.216	0.619	-
2593.0	40620	QPSK	I	20	16.8	15.97	-0.10	Left Touch	0	50	0	1:1.58		0.723	1.211	0.876	-
2636.5	41055	QPSK	I	20	16.8	15.91	0.04	Left Touch	0	50	0	1:1.58		0.649	1.227	0.796	-
2680.0	41490	QPSK	I	20	16.8	15.86	0.18	Left Touch	0	50	0	1:1.58		0.635	1.242	0.789	-
2593.0	40620	QPSK	I	20	16.8	15.99	-0.13	Left Touch	0	100	0	1:1.58		0.684	1.205	0.824	-
2549.5	40185	QPSK	I	20	16.8	16.02	0.10	Left Tilt	0	1	0	1:1.58		0.109	1.197	0.130	-
2549.5	40185	QPSK	I	20	16.8	15.99	0.13	Left Tilt	0	50	0	1:1.58		0.111	1.205	0.134	-
2549.5	40185	QPSK	I	20	16.8	16.02	-0.16	Right Touch	0	1	0	1:1.58		0.125	1.197	0.150	-
2549.5	40185	QPSK	I	20	16.8	15.99	0.02	Right Touch	0	50	0	1:1.58		0.127	1.205	0.153	-
2549.5	40185	QPSK	I	20	16.8	16.02	0.13	Right Tilt	0	1	0	1:1.58		0.027	1.197	0.032	-
2549.5	40185	QPSK	I	20	16.8	15.99	0.07	Right Tilt	0	50	0	1:1.58		0.027	1.205	0.033	-
2593.0	40620	QPSK	I	20	18.4	17.60	0.09	Left Touch	0	50	0	1:2.31		0.747	1.202	0.898	A10
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 66 (AWS) Head SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1770	132572	QPSK	A	20	23.5	22.59	-0.04	Left Touch	0	1	49	1:1		0.075	1.233	0.092	-
1745	132322	QPSK	A	20	22.5	21.32	0.09	Left Touch	1	50	49	1:1		0.053	1.312	0.070	-
1770	132572	QPSK	A	20	23.5	22.59	0.08	Left Tilt	0	1	49	1:1		0.037	1.233	0.046	-
1745	132322	QPSK	A	20	22.5	21.32	-0.18	Left Tilt	1	50	49	1:1		0.026	1.312	0.034	-
1770	132572	QPSK	A	20	23.5	22.59	-0.05	Right Touch	0	1	49	1:1		0.061	1.233	0.075	-
1745	132322	QPSK	A	20	22.5	21.32	-0.02	Right Touch	1	50	49	1:1		0.049	1.312	0.064	-
1770	132572	QPSK	A	20	23.5	22.59	-0.01	Right Tilt	0	1	49	1:1		0.050	1.233	0.062	-
1745	132322	QPSK	A	20	22.5	21.32	0.05	Right Tilt	1	50	49	1:1		0.043	1.312	0.056	-
1720	132072	QPSK	I	20	17.5	16.56	0.01	Left Touch	0	1	49	1:1		0.569	1.242	0.707	-
1720	132072	QPSK	I	20	17.5	16.41	0.15	Left Touch	0	50	49	1:1		0.565	1.285	0.726	A11
1720	132072	QPSK	I	20	17.5	16.56	0.05	Left Tilt	0	1	49	1:1		0.109	1.242	0.135	-
1720	132072	QPSK	I	20	17.5	16.41	-0.11	Left Tilt	0	50	49	1:1		0.146	1.285	0.188	-
1720	132072	QPSK	I	20	17.5	16.56	0.02	Right Touch	0	1	49	1:1		0.347	1.242	0.431	-
1720	132072	QPSK	I	20	17.5	16.41	-0.02	Right Touch	0	50	49	1:1		0.335	1.285	0.430	-
1720	132072	QPSK	I	20	17.5	16.56	-0.03	Right Tilt	0	1	49	1:1		0.080	1.242	0.099	-
1720	132072	QPSK	I	20	17.5	16.41	0.00	Right Tilt	0	50	49	1:1		0.078	1.285	0.100	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

NR FDD Band n5 Head SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.91	0.15	Left Touch	0	1	53	1:1		0.195	1.146	0.223	-
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.85	-0.11	Left Touch	0	50	28	1:1		0.195	1.161	0.226	-
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.91	-0.05	Left Tilt	0	1	53	1:1		0.126	1.146	0.144	-
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.85	-0.18	Left Tilt	0	50	28	1:1		0.121	1.161	0.140	-
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.91	0.16	Right Touch	0	1	53	1:1		0.235	1.146	0.269	A12
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.85	0.07	Right Touch	0	50	28	1:1		0.223	1.161	0.259	-
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.91	0.17	Right Tilt	0	1	53	1:1		0.127	1.146	0.146	-
836.5	167300	DFT-s OFDM QPSK	A	20	24.5	23.85	-0.19	Right Tilt	0	50	28	1:1		0.110	1.161	0.128	-
836.5	167300	CP QPSK	A	20	23.0	22.39	-0.18	Right Touch	1.5	1	1	1:1		0.137	1.151	0.158	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

NR FDD Band n25 Head (PCS) SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.54	-0.16	Left Touch	0	1	214	1:1		0.082	1.112	0.091	-
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.37	0.11	Left Touch	0	108	54	1:1		0.081	1.156	0.094	-
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.54	-0.01	Left Tilt	0	1	214	1:1		0.028	1.112	0.031	-
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.37	-0.03	Left Tilt	0	108	54	1:1		0.031	1.156	0.036	-
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.54	0.13	Right Touch	0	1	214	1:1		0.060	1.112	0.067	-
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.37	0.00	Right Touch	0	108	54	1:1		0.049	1.156	0.057	-
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.54	-0.10	Right Tilt	0	1	214	1:1		0.016	1.112	0.018	-
1882.5	376500	DFT-s OFDM QPSK	A	40	23.0	22.37	-0.17	Right Tilt	0	108	54	1:1		0.017	1.156	0.020	-
1882.5	376500	CP QPSK	A	40	21.5	20.93	0.00	Right Touch	1.5	1	1	1:1		0.051	1.140	0.058	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.63	-0.01	Left Touch	0	1	1	1:1		0.705	1.222	0.862	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.65	0.17	Left Touch	0	108	54	1:1		0.717	1.216	0.872	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.64	-0.12	Left Touch	0	216	0	1:1		0.726	1.219	0.885	A13
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.63	-0.11	Left Tilt	0	1	1	1:1		0.138	1.222	0.169	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.65	-0.01	Left Tilt	0	108	54	1:1		0.138	1.216	0.168	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.63	0.02	Right Touch	0	1	1	1:1		0.231	1.222	0.282	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.65	0.02	Right Touch	0	108	54	1:1		0.223	1.216	0.271	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.63	-0.13	Right Tilt	0	1	1	1:1		0.232	1.222	0.284	-
1882.5	376500	DFT-s OFDM QPSK	I	40	16.5	15.65	-0.05	Right Tilt	0	108	54	1:1		0.212	1.216	0.258	-
1882.5	376500	CP QPSK	I	40	16.5	15.65	0.07	Left Touch	0	1	1	1:1		0.550	1.216	0.669	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

NR TDD Band n41 Head SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.30	0.11	Left Touch	0	1	1	1:1		0.724	1.259	0.912	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.34	-0.10	Left Touch	0	135	0	1:1		0.788	1.247	0.983	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.34	0.10	Left Touch	0	270	0	1:1		0.829	1.247	1.034	A14
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.30	-0.10	Left Tilt	0	1	1	1:1		0.133	1.259	0.167	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.34	0.10	Left Tilt	0	135	0	1:1		0.141	1.247	0.176	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.30	-0.13	Right Touch	0	1	1	1:1		0.181	1.259	0.228	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.34	0.17	Right Touch	d	135	0	1:1		0.210	1.247	0.262	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.30	-0.09	Right Tilt	0	1	1	1:1		0.039	1.259	0.049	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.34	-0.10	Right Tilt	0	135	0	1:1		0.034	1.247	0.042	-
2592.99	518598	CP OFDM QPSK	I	100	15.3	14.57	-0.09	Left Touch	0	1	1	1:1		0.749	1.183	0.886	-
2592.99	518598	DFT-s OFDM QPSK	I	100	15.3	14.34	-0.03	Left Touch	0	270	0	1:1		0.808	1.247	1.008	#
2592.99	518598	CW SRS #2	B	100	12.2	11.98	0.00	Left Touch	0	-	-	1:1		0.000	1.052	0.000	-
2592.99	518598	CW SRS #2	B	100	12.2	11.98	0.00	Left Tilt	0	-	-	1:1		0.000	1.052	0.000	-
2592.99	518598	CW SRS #2	B	100	12.2	11.98	0.00	Right Touch	0	-	-	1:1		0.000	1.052	0.000	-
2592.99	518598	CW SRS #2	B	100	12.2	11.98	0.00	Right Tilt	0	-	-	1:1		0.000	1.052	0.000	-
2592.99	518598	CW SRS #3	F	100	14.2	13.72	0.11	Left Touch	0	-	-	1:1		0.038	1.117	0.042	-
2592.99	518598	CW SRS #3	F	100	14.2	13.72	-0.18	Left Tilt	0	-	-	1:1		0.031	1.117	0.035	-
2592.99	518598	CW SRS #3	F	100	14.2	13.72	-0.19	Right Touch	0	-	-	1:1		0.173	1.117	0.193	-
2592.99	518598	CW SRS #3	F	100	14.2	13.72	0.15	Right Tilt	0	-	-	1:1		0.114	1.117	0.127	-
2592.99	518598	CW SRS #4	C	100	8.7	7.56	0.00	Left Touch	0	-	-	1:1		0.000	1.300	0.000	-
2592.99	518598	CW SRS #4	C	100	8.7	7.56	0.00	Left Tilt	0	-	-	1:1		0.000	1.300	0.000	-
2592.99	518598	CW SRS #4	C	100	8.7	7.56	0.00	Right Touch	0	-	-	1:1		0.000	1.300	0.000	-
2592.99	518598	CW SRS #4	C	100	8.7	7.56	0.00	Right Tilt	0	-	-	1:1		0.000	1.300	0.000	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

Note: # Data entry indicate Variability measurement.

NR FDD Band n66 Head SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		(W/kg)	
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.75	-0.10	Left Touch	0	1	214	1:1		0.068	1.189	0.081	-
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.52	-0.10	Left Touch	0	108	54	1:1		0.061	1.253	0.076	-
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.75	-0.13	Left Tilt	0	1	214	1:1		0.043	1.189	0.051	-
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.52	0.01	Left Tilt	0	108	54	1:1		0.031	1.253	0.039	-
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.75	-0.10	Right Touch	0	1	214	1:1		0.052	1.189	0.062	-
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.52	0.13	Right Touch	0	108	54	1:1		0.055	1.253	0.069	-
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.75	-0.18	Right Tilt	0	1	214	1:1		0.038	1.189	0.045	-
1745	349000	DFT-s OFDM QPSK	A	40	23.5	22.52	-0.10	Right Tilt	0	108	54	1:1		0.030	1.253	0.038	-
1745	349000	CP QPSK	A	40	22.0	21.08	0.00	Left Touch	1.5	1	1	1:1		0.027	1.236	0.033	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.62	0.15	Left Touch	0	1	214	1:1		0.704	1.374	0.967	A15
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.72	-0.16	Left Touch	0	108	54	1:1		0.683	1.343	0.917	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.68	0.10	Left Touch	0	216	0	1:1		0.601	1.355	0.814	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.62	-0.05	Left Tilt	0	1	214	1:1		0.201	1.374	0.276	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.72	0.07	Left Tilt	0	108	54	1:1		0.194	1.343	0.261	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.62	0.08	Right Touch	0	1	214	1:1		0.421	1.374	0.578	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.72	-0.08	Right Touch	0	108	54	1:1		0.408	1.343	0.548	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.62	-0.08	Right Tilt	0	1	214	1:1		0.097	1.374	0.133	-
1745	349000	DFT-s OFDM QPSK	I	40	18.0	16.72	-0.06	Right Tilt	0	108	54	1:1		0.086	1.343	0.115	-
1745	349000	CP QPSK	I	40	18.0	16.75	0.07	Left Touch	0	1	1	1:1		0.619	1.334	0.826	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg I Averaged over 1 gram									

NR TDD Band n77 Head SAR (RCV-ON)

Frequency		Mode	Ant.	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.													(W/kg)			
3 930.00	662000	DFT-s QPSK	F	100	15.0	14.24	-0.01	Left Touch	0	1	271	1:1		0.213	1.191	0.254	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	13.89	-0.13	Left Touch	0	135	138	1:1		0.175	1.291	0.226	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	14.24	0.14	Left Tilt	0	1	271	1:1		0.213	1.191	0.254	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	13.89	0.19	Left Tilt	0	135	138	1:1		0.122	1.291	0.158	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	14.24	-0.09	Right Touch	0	1	271	1:1		0.422	1.191	0.503	-
3 750.00	650000	DFT-s QPSK	F	100	15.0	14.03	-0.10	Right Touch	0	1	271	1:1		0.654	1.250	0.818	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	13.89	-0.11	Right Touch	0	135	138	1:1		0.370	1.291	0.478	-
3 750.00	650000	DFT-s QPSK	F	100	15.0	13.81	-0.15	Right Touch	0	135	69	1:1		0.586	1.315	0.771	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	14.05	0.10	Right Touch	0	270	0	1:1		0.389	1.245	0.484	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	14.24	0.10	Right Tilt	0	1	271	1:1		0.327	1.191	0.389	-
3 930.00	662000	DFT-s QPSK	F	100	15.0	13.89	0.16	Right Tilt	0	135	138	1:1		0.279	1.291	0.360	-
3 750.00	650000	CP QPSK	F	100	15.0	14.02	0.15	Right Touch	0	1	1	1:1		0.547	1.253	0.685	-
3 500.01	633334	DFT-s QPSK	F	100	15.0	13.55	0.19	Right Touch	0	1	271	1:1		0.629	1.396	0.878	A16
3 500.01	633334	DFT-s QPSK	F	100	15.0	13.93	0.15	Right Touch	0	135	0	1:1		0.622	1.279	0.796	-
3 500.01	633334	DFT-s QPSK	F	100	15.0	13.66	0.18	Right Touch	0	270	0	1:1		0.597	1.361	0.813	-
3 930.00	662000	CW SRS #1	I	100	15.0	14.92	0.14	Left Touch	0	-	-	1:1		0.202	1.019	0.206	-
3 930.00	662000	CW SRS #1	I	100	15.0	14.92	0.11	Left Tilt	0	-	-	1:1		0.011	1.019	0.011	-
3 930.00	662000	CW SRS #1	I	100	15.0	14.92	0.00	Right Touch	0	-	-	1:1		0.236	1.019	0.240	-
3 930.00	662000	CW SRS #1	I	100	15.0	14.92	0.00	Right Tilt	0	-	-	1:1		0.000	1.019	0.000	-
3 500.01	633334	CW SRS #1	I	100	15.0	13.91	0.00	Right Touch	0	-	-	1:1		0.277	1.285	0.356	-
3 930.00	662000	CW SRS #2	E	100	15.0	14.92	-0.15	Left Touch	0	-	-	1:1		0.279	1.019	0.284	-
3 930.00	662000	CW SRS #2	E	100	15.0	14.92	0.10	Left Tilt	0	-	-	1:1		0.024	1.019	0.024	-
3 930.00	662000	CW SRS #2	E	100	15.0	14.92	0.00	Right Touch	0	-	-	1:1		0.248	1.019	0.253	-
3 930.00	662000	CW SRS #2	E	100	15.0	14.92	0.14	Right Tilt	0	-	-	1:1		0.021	1.019	0.021	-
3 500.01	633334	CW SRS #2	E	100	15.0	13.85	-0.17	Left Touch	0	-	-	1:1		0.177	1.303	0.231	-
3 930.00	662000	CW SRS #3	C	100	8.5	7.10	0.00	Left Touch	0	-	-	1:1		0.000	1.380	0.000	-
3 930.00	662000	CW SRS #3	C	100	8.5	7.10	0.00	Left Tilt	0	-	-	1:1		0.000	1.380	0.000	-
3 930.00	662000	CW SRS #3	C	100	8.5	7.10	0.00	Right Touch	0	-	-	1:1		0.000	1.380	0.000	-
3 930.00	662000	CW SRS #3	C	100	8.5	7.10	0.00	Right Tilt	0	-	-	1:1		0.000	1.380	0.000	-
3 500.01	633334	CW SRS #3	C	100	8.5	6.53	0.00	Left Touch	0	-	-	1:1		0.000	1.574	0.000	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram								

DTS Head SAR

Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	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.															
2 412	1	802.11b	Ant.1	20	1Mbps	19.0	17.86	-0.08	Left Touch	98.8	0.249	0.172	1.300	1.012	0.226	-
2 412	1	802.11b	Ant.1	20	1Mbps	19.0	17.86	0.04	Left Tilt	98.8	0.167	0.104	1.300	1.012	0.137	-
2 412	1	802.11b	Ant.1	20	1Mbps	19.0	17.86	0.13	Right Touch	98.8	1.350	0.724	1.300	1.012	0.953	-
2 462	11	802.11b	Ant.1	20	1Mbps	19.0	17.85	0.12	Right Touch	98.8	1.590	0.786	1.303	1.012	1.037	A17
2 412	1	802.11b	Ant.1	20	1Mbps	19.0	17.86	-0.10	Right Tilt	98.8	0.692	0.390	1.300	1.012	0.513	-
2 437	6	802.11b	Ant.2	20	1Mbps	19.0	17.55	0.02	Left Touch	98.8	0.850	0.494	1.396	1.012	0.698	-
2 437	6	802.11b	Ant.2	20	1Mbps	19.0	17.55	0.04	Left Tilt	98.8	0.718	0.326	1.396	1.012	0.461	-
2 437	6	802.11b	Ant.2	20	1Mbps	19.0	17.55	0.19	Right Touch	98.8	0.364	0.231	1.396	1.012	0.326	-
2 437	6	802.11b	Ant.2	20	1Mbps	19.0	17.55	0.04	Right Tilt	98.8	0.355	0.213	1.396	1.012	0.301	-
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

Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.															
5 300	60	802.11a	Ant.1	20	6Mbps	16.0	14.64		Left Touch	94.2	0.651	0.196	1.368	1.062	0.285	-
5 300	60	802.11a	Ant.1	20	6Mbps	16.0	14.64		Left Tilt	94.2	0.249		1.368	1.062		-
5 300	60	802.11a	Ant.1	20	6Mbps	16.0	14.64	-0.06	Right Touch	94.2	1.5	0.461	1.368	1.062	0.669	-
5 300	60	802.11a	Ant.1	20	6Mbps	16.0	14.64		Right Tilt	94.2	0.598		1.368	1.062		-
5 620	124	802.11a	Ant.1	20	6Mbps	16.0	15.17		Left Touch	94.2	1.1		1.211	1.062		-
5 620	124	802.11a	Ant.1	20	6Mbps	16.0	15.17		Left Tilt	94.2	0.745		1.211	1.062		-
5 620	124	802.11a	Ant.1	20	6Mbps	16.0	15.17	0.14	Right Touch	94.2	1.60	0.591	1.211	1.062	0.760	-
5 620	124	802.11a	Ant.1	20	6Mbps	16.0	15.17	-0.16	Right Tilt	94.2	1.22	0.444	1.211	1.062	0.571	-
5 785	157	802.11a	Ant.1	20	6Mbps	16.0	15.31	-0.15	Left Touch	94.2	1.16	0.176	1.172	1.062	0.219	-
5 785	157	802.11a	Ant.1	20	6Mbps	16.0	15.31		Left Tilt	94.2	0.774		1.172	1.062		-
5 785	157	802.11a	Ant.1	20	6Mbps	16.0	15.31	-0.16	Right Touch	94.2	1.47	0.592	1.172	1.062	0.737	-
5 785	157	802.11a	Ant.1	20	6Mbps	16.0	15.31	0.09	Right Tilt	94.2	1.05	0.405	1.172	1.062	0.504	-
5 865	173	802.11a	Ant.1	20	6Mbps	16.0	15.49		Left Touch	94.2	1.1		1.125	1.062		-
5 865	173	802.11a	Ant.1	20	6Mbps	16.0	15.49		Left Tilt	94.2	0.873		1.125	1.062		-
5 865	173	802.11a	Ant.1	20	6Mbps	16.0	15.49	0.12	Right Touch	94.2	1.48	0.723	1.125	1.062	0.863	-
5 845	169	802.11a	Ant.1	20	6Mbps	16.0	15.48	-0.02	Right Touch	94.2	2.08	0.882	1.127	1.062	1.055	A18
5 865	173	802.11a	Ant.1	20	6Mbps	16.0	15.49	0.16	Right Tilt	94.2	1.52	0.561	1.125	1.062	0.670	-
5 845	169	802.11a	Ant.1	20	6Mbps	16.0	15.48	0.18	Right Touch	94.2	2.42	0.876	1.127	1.062	1.048	#
5 300	60	802.11a	Ant.2	20	6Mbps	16.0	15.09	-0.16	Left Touch	94.2	0.919	0.228	1.233	1.062	0.298	-
5 300	60	802.11a	Ant.2	20	6Mbps	16.0	15.09		Left Tilt	94.2	0.559		1.233	1.062		-
5 300	60	802.11a	Ant.2	20	6Mbps	16.0	15.09		Right Touch	94.2	0.179		1.233	1.062		-
5 300	60	802.11a	Ant.2	20	6Mbps	16.0	15.09		Right Tilt	94.2	0.344		1.233	1.062		-
5 600	120	802.11a	Ant.2	20	6Mbps	16.0	15.95	0.05	Left Touch	94.2	1.07	0.205	1.012	1.062	0.220	-
5 600	120	802.11a	Ant.2	20	6Mbps	16.0	15.95		Left Tilt	94.2	0.563		1.012	1.062		-
5 600	120	802.11a	Ant.2	20	6Mbps	16.0	15.95		Right Touch	94.2	0.25		1.012	1.062		-
5 600	120	802.11a	Ant.2	20	6Mbps	16.0	15.95		Right Tilt	94.2	0.323		1.012	1.062		-
5 785	157	802.11a	Ant.2	20	6Mbps	16.0	15.11	0.17	Left Touch	94.2	0.83	0.224	1.227	1.062	0.292	-
5 785	157	802.11a	Ant.2	20	6Mbps	16.0	15.11		Left Tilt	94.2	0.556		1.227	1.062		-
5 785	157	802.11a	Ant.2	20	6Mbps	16.0	15.11		Right Touch	94.2	0.221		1.227	1.062		-
5 785	157	802.11a	Ant.2	20	6Mbps	16.0	15.11		Right Tilt	94.2	0.242		1.227	1.062		-
5 865	173	802.11a	Ant.2	20	6Mbps	16.0	14.71	0.15	Left Touch	94.2	0.924	0.249	1.346	1.062	0.356	-
5 865	173	802.11a	Ant.2	20	6Mbps	16.0	14.71		Left Tilt	94.2	0.71		1.346	1.062		-
5 865	173	802.11a	Ant.2	20	6Mbps	16.0	14.71		Right Touch	94.2	0.267		1.346	1.062		-
5 865	173	802.11a	Ant.2	20	6Mbps	16.0	14.71		Right Tilt	94.2	0.427		1.346	1.062		-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population											Head 1.6 W/kg Averaged over 1 gram					

Note: # Data entry indicate Variability measurement.

DSS Head SAR

Frequency		Mode	Ant.	Tune- Up Limit	Meas. Power	Power Drift	Test Position	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)		(W/kg)			(Duty)	(W/kg)
2 402	0	Bluetooth DH5	Ant.1	19	18.82	-0.11	Left Touch	0.192	1.042	1.010	0.202	-
2 402	0	Bluetooth DH5	Ant.1	19	18.82	0.13	Left Tilt	0.115	1.042	1.010	0.121	-
2 402	0	Bluetooth DH5	Ant.1	19	18.82	-0.16	Right Touch	0.803	1.042	1.010	0.845	-
2 441	39	Bluetooth DH5	Ant.1	19	18.51	0.06	Right Touch	0.734	1.119	1.010	0.830	-
2 480	78	Bluetooth DH5	Ant.1	19	18.27	0.14	Right Touch	0.771	1.183	1.010	0.921	A19
2 402	0	Bluetooth DH5	Ant.1	19	18.82	0.19	Right Tilt	0.461	1.042	1.010	0.485	-
2 402	0	Bluetooth DH5	Ant.1	19	18.82	0.12	Right Touch	0.728	1.042	1.010	0.766	#
2 441	39	Bluetooth DH5	Ant.2	18	17.72	0.02	Left Touch	0.652	1.067	1.010	0.703	-
2 441	39	Bluetooth DH5	Ant.2	18	17.72	0.16	Left Tilt	0.363	1.067	1.010	0.391	-
2 441	39	Bluetooth DH5	Ant.2	18	17.72	0.12	Right Touch	0.255	1.067	1.010	0.275	-
2 441	39	Bluetooth DH5	Ant.2	18	17.72	-0.10	Right Tilt	0.254	1.067	1.010	0.274	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram					

Note: # Data entry indicate Variability measurement.

13.2 Body-worn SAR Measurement Results

GSM Band Body-Worn SAR															
Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GSM 850 Voice	A	Open	32.0	30.26	-0.12	Rear	1:8.3	10		0.241	1.493	0.360	-
836.6	190	GSM 850 Voice	A	Open	32.0	30.26	-0.14	Front	1:8.3	10		0.156	1.493	0.233	-
836.6	190	GSM 850 GPRS 4Tx	A	Open	27.0	26.26	0.13	Rear	1:2.07	10		0.296	1.186	0.351	-
836.6	190	GSM 850 GPRS 4Tx	A	Open	27.0	26.26	-0.05	Front	1:2.07	10		0.230	1.186	0.273	-
836.6	190	GSM 850 Voice	A	Close	32.0	30.26	-0.12	Rear	1:8.3	10		0.260	1.493	0.388	-
836.6	190	GSM 850 Voice	A	Close	32.0	30.26	-0.10	Front	1:8.3	10		0.089	1.493	0.133	-
836.6	190	GSM 850 GPRS 4Tx	A	Close	27.0	26.26	-0.14	Rear	1:2.07	10		0.361	1.186	0.428	B1
836.6	190	GSM 850 GPRS 4Tx	A	Close	27.0	26.26	0.09	Front	1:2.07	10		0.115	1.186	0.136	-
1909.8	810	GSM1900 Voice	A	Open	27.5	26.09	-0.11	Rear	1:8.3	10		0.383	1.384	0.530	-
1909.8	810	GSM1900 Voice	A	Open	27.5	26.09	0.03	Front	1:8.3	10		0.263	1.384	0.364	-
1909.8	810	GSM1900 GPRS 4Tx	A	Open	21.5	19.86	-0.07	Rear	1:2.07	10		0.413	1.459	0.603	B2
1909.8	810	GSM1900 GPRS 4Tx	A	Open	21.5	19.86	-0.01	Front	1:2.07	10		0.283	1.459	0.413	-
1909.8	810	GSM1900 Voice	A	Close	27.5	26.09	-0.07	Rear	1:8.3	10		0.356	1.384	0.493	-
1909.8	810	GSM1900 Voice	A	Close	27.5	26.09	0.02	Front	1:8.3	10		0.028	1.384	0.039	-
1909.8	810	GSM1900 GPRS 4Tx	A	Close	21.5	19.86	-0.07	Rear	1:2.07	10		0.383	1.459	0.559	-
1909.8	810	GSM1900 GPRS 4Tx	A	Close	21.5	19.86	0.06	Front	1:2.07	10		0.030	1.459	0.044	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram							

UMTS Band Body-Worn SAR															
Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	4183	UMTS Band 5 RMC	A	Open	24.0	23.64	0.19	Rear	1:1	10		0.323	1.086	0.351	-
836.6	4183	UMTS Band 5 RMC	A	Open	24.0	23.64	-0.03	Front	1:1	10		0.260	1.086	0.282	-
836.6	4183	UMTS Band 5 RMC	A	Close	24.0	23.64	-0.14	Rear	1:1	10		0.606	1.086	0.658	B3
836.6	4183	UMTS Band 5 RMC	A	Close	24.0	23.64	-0.02	Front	1:1	10		0.220	1.086	0.239	-
1 732.4	1412	UMTS Band 4 RMC	A	Open	21.0	20.21	-0.16	Rear	1:1	10		0.880	1.199	1.055	-
1 712.4	1312	UMTS Band 4 RMC	A	Open	21.0	20.08	-0.19	Rear	1:1	10		0.819	1.236	1.012	-
1 752.6	1513	UMTS Band 4 RMC	A	Open	21.0	20.26	-0.08	Rear	1:1	10		0.977	1.186	1.159	B4
1 732.4	1412	UMTS Band 4 RMC	A	Open	21.0	20.21	0.01	Front	1:1	10		0.581	1.199	0.697	-
1 752.6	1513	UMTS Band 4 RMC	A	Open	21.0	20.26	0.00	Rear	1:1	10		0.977	1.186	1.159	#
1 732.4	1412	UMTS Band 4 RMC	A	Close	21.0	20.21	-0.14	Rear	1:1	10		0.253	1.199	0.303	-
1 732.4	1412	UMTS Band 4 RMC	A	Close	21.0	20.21	-0.10	Front	1:1	10		0.207	1.199	0.248	-
1880.0	9400	UMTS Band 2 RMC	A	Open	21.0	20.03	-0.04	Rear	1:1	10		0.892	1.250	1.115	-
1852.4	9262	UMTS Band 2 RMC	A	Open	21.0	20.05	0.11	Rear	1:1	10		0.959	1.245	1.194	B5
1907.6	9538	UMTS Band 2 RMC	A	Open	21.0	20.45	-0.07	Rear	1:1	10		0.993	1.135	1.127	-
1880.0	9400	UMTS Band 2 RMC	A	Open	21.0	20.03	-0.06	Front	1:1	10		0.586	1.250	0.733	-
1907.6	9538	UMTS Band 2 RMC	A	Open	21.0	20.45	0.16	Rear	1:1	10		0.985	1.135	1.118	#
1880.0	9400	UMTS Band 2 RMC	A	Close	21.0	20.03	0.12	Rear	1:1	10		0.446	1.250	0.558	-
1880.0	9400	UMTS Band 2 RMC	A	Close	21.0	20.03	-0.13	Front	1:1	10		0.038	1.250	0.048	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram							

Note: # Data entry indicate Variability measurement

LTE FDD Band Body-Worn SAR

Frequency		Band	Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.					(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	(mm)	(W/kg)		(W/kg)				
707.5	23095	LTE 12	QPSK	A	Open	10	22.0	21.06	-0.04	Rear	0	1	0	1:1		10	0.218	1.219	0.271	-
707.5	23095	LTE 12	QPSK	A	Open	10	22.0	20.88	-0.05	Rear	0	25	0	1:1		10	0.213	1.227	0.276	-
707.5	23095	LTE 12	QPSK	A	Open	10	22.0	21.06	-0.10	Front	0	1	0	1:1		10	0.145	1.219	0.180	-
707.5	23095	LTE 12	QPSK	A	Open	10	22.0	20.88	-0.19	Front	0	25	0	1:1		10	0.144	1.227	0.186	-
707.5	23095	LTE 12	QPSK	A	Close	10	22.0	21.06	-0.16	Rear	0	1	0	1:1		10	0.241	1.219	0.299	-
707.5	23095	LTE 12	QPSK	A	Close	10	22.0	20.88	-0.01	Rear	0	25	0	1:1		10	0.245	1.227	0.317	B6
707.5	23095	LTE 12	QPSK	A	Close	10	22.0	21.06	-0.04	Front	0	1	0	1:1		10	0.060	1.219	0.075	-
707.5	23095	LTE 12	QPSK	A	Close	10	22.0	20.88	0.09	Front	0	25	0	1:1		10	0.063	1.227	0.082	-
782	23230	LTE 13	QPSK	A	Open	10	22.0	20.68	-0.02	Rear	0	1	24	1:1		10	0.297	1.256	0.402	-
782	23230	LTE 13	QPSK	A	Open	10	22.0	20.58	-0.11	Rear	1	25	12	1:1		10	0.292	1.312	0.405	-
782	23230	LTE 13	QPSK	A	Open	10	22.0	20.68	-0.11	Front	0	1	24	1:1		10	0.201	1.256	0.272	-
782	23230	LTE 13	QPSK	A	Open	10	22.0	20.58	-0.18	Front	1	25	12	1:1		10	0.202	1.312	0.280	-
782	23230	LTE 13	QPSK	A	Close	10	22.0	20.68	-0.14	Rear	0	1	24	1:1		10	0.334	1.256	0.453	-
782	23230	LTE 13	QPSK	A	Close	10	22.0	20.58	0.04	Rear	1	25	12	1:1		10	0.329	1.312	0.456	B7
782	23230	LTE 13	QPSK	A	Close	10	22.0	20.68	-0.19	Front	0	1	24	1:1		10	0.119	1.256	0.161	-
782	23230	LTE 13	QPSK	A	Close	10	22.0	20.58	0.12	Front	1	25	12	1:1		10	0.116	1.312	0.161	-
1905	26590	LTE 25	QPSK	A	Open	20	21.3	20.66	0.17	Rear	0	1	99	1:1		10	0.959	1.159	1.111	-
1860	26140	LTE 25	QPSK	A	Open	20	21.3	20.25	-0.06	Rear	0	1	0	1:1		10	0.867	1.274	1.105	-
1882.5	26365	LTE 25	QPSK	A	Open	20	21.3	20.34	0.11	Rear	0	1	0	1:1		10	0.927	1.247	1.156	-
1905	26590	LTE 25	QPSK	A	Open	20	21.3	20.33	-0.09	Rear	0	50	49	1:1		10	0.952	1.250	1.190	B8
1860	26140	LTE 25	QPSK	A	Open	20	21.3	20.14	-0.10	Rear	0	50	25	1:1		10	0.893	1.306	1.166	-
1882.5	26365	LTE 25	QPSK	A	Open	20	21.3	20.15	0.00	Rear	0	50	25	1:1		10	0.899	1.303	1.171	-
1905	26590	LTE 25	QPSK	A	Open	20	21.3	20.31	-0.12	Rear	0	100	0	1:1		10	0.916	1.256	1.150	-
1905	26590	LTE 25	QPSK	A	Open	20	21.3	20.66	0.02	Front	0	1	99	1:1		10	0.621	1.159	0.720	-
1905	26590	LTE 25	QPSK	A	Open	20	21.3	20.33	0.01	Front	0	50	49	1:1		10	0.618	1.250	0.773	-
1905	26590	LTE 25	QPSK	A	Open	20	21.3	20.66	-0.16	Rear	0	1	99	1:1		10	0.927	1.159	1.074	#
1905	26590	LTE 25	QPSK	A	Close	20	21.3	20.66	-0.16	Rear	0	1	99	1:1		10	0.858	1.159	0.994	-
1860	26140	LTE 25	QPSK	A	Close	20	21.3	20.25	-0.05	Rear	0	1	0	1:1		10	0.425	1.274	0.541	-
1882.5	26365	LTE 25	QPSK	A	Close	20	21.3	20.34	-0.05	Rear	0	1	0	1:1		10	0.612	1.247	0.763	-
1905	26590	LTE 25	QPSK	A	Close	20	21.3	20.33	-0.09	Rear	0	50	49	1:1		10	0.846	1.250	1.058	-
1860	26140	LTE 25	QPSK	A	Close	20	21.3	20.14	-0.17	Rear	0	50	25	1:1		10	0.829	1.306	1.083	-
1882.5	26365	LTE 25	QPSK	A	Close	20	21.3	20.15	-0.10	Rear	0	50	25	1:1		10	0.802	1.303	1.045	-
1905	26590	LTE 25	QPSK	A	Close	20	21.3	20.31	-0.15	Rear	0	100	0	1:1		10	0.820	1.256	1.030	-
1905	26590	LTE 25	QPSK	A	Close	20	21.3	20.66	-0.18	Front	0	1	99	1:1		10	0.057	1.159	0.066	-
1905	26590	LTE 25	QPSK	A	Close	20	21.3	20.33	-0.17	Front	0	50	49	1:1		10	0.062	1.250	0.078	-
1905	26590	LTE 25	QPSK	A	Close	20	21.3	20.66	-0.07	Rear	0	1	99	1:1		10	0.827	1.159	0.958	#
1905	26590	LTE 25	QPSK	I	Open	20	21.5	20.72	-0.02	Rear	0	1	49	1:1		10	0.577	1.197	0.691	-
1882.5	26365	LTE 25	QPSK	I	Open	20	21.5	20.72	-0.08	Rear	0	50	49	1:1		10	0.558	1.197	0.668	-
1905	26590	LTE 25	QPSK	I	Open	20	21.5	20.72	-0.13	Front	0	1	49	1:1		10	0.300	1.197	0.359	-
1882.5	26365	LTE 25	QPSK	I	Open	20	21.5	20.72	0.17	Front	0	50	99	1:1		10	0.285	1.197	0.341	-
1905	26590	LTE 25	QPSK	I	Close	20	21.5	20.72	-0.17	Rear	0	1	49	1:1		10	0.041	1.197	0.049	-
1882.5	26365	LTE 25	QPSK	I	Close	20	21.5	20.72	-0.03	Rear	0	50	49	1:1		10	0.039	1.197	0.047	-
1905	26590	LTE 25	QPSK	I	Close	20	21.5	20.72	-0.11	Front	0	1	49	1:1		10	0.250	1.197	0.299	-
1882.5	26365	LTE 25	QPSK	I	Close	20	21.5	20.72	-0.14	Front	0	50	49	1:1		10	0.244	1.197	0.292	-
831.5	26865	LTE 26	QPSK	A	Open	15	24.5	23.85	0.10	Rear	0	1	36	1:1		10	0.392	1.161	0.455	B9
831.5	26865	LTE 26	QPSK	A	Open	15	23.5	22.64	-0.05	Rear	1	36	0	1:1		10	0.295	1.219	0.360	-
831.5	26865	LTE 26	QPSK	A	Open	15	24.5	23.85	0.07	Front	0	1	36	1:1		10	0.237	1.161	0.275	-
831.5	26865	LTE 26	QPSK	A	Open	15	23.5	22.64	-0.06	Front	1	36	0	1:1		10	0.183	1.219	0.223	-
831.5	26865	LTE 26	QPSK	A	Close	15	24.5	23.85	0.09	Rear	0	1	36	1:1		10	0.210	1.161	0.244	-
831.5	26865	LTE 26	QPSK	A	Close	15	23.5	22.64	0.07	Rear	1	36	0	1:1		10	0.178	1.219	0.217	-
831.5	26865	LTE 26	QPSK	A	Close	15	24.5	23.85	0.11	Front	0	1	36	1:1		10	0.036	1.161	0.042	-
831.5	26865	LTE 26	QPSK	A	Close	15	23.5	22.64	-0.17	Front	1	36	0	1:1		10	0.030	1.219	0.037	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram										

Note: # Data entry indicate Variability measurement.

LTE FDD Band Body-Worn SAR

Frequency		Band	Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.					(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	(dB)			(dB)	Size	offset	(mm)	
1 770	132572	LTE 66	QPSK	A	Open	20	20.8	19.71	-0.05	Rear	0	1	49	1:1		10	0.871	1.285	1.119	-
1 720	132072	LTE 66	QPSK	A	Open	20	20.8	19.24	-0.04	Rear	0	1	99	1:1		10	0.787	1.432	1.127	-
1 745	132322	LTE 66	QPSK	A	Open	20	20.8	19.38	0.16	Rear	0	1	0	1:1		10	0.772	1.387	1.071	-
1 745	132322	LTE 66	QPSK	A	Open	20	20.8	19.43	0.10	Rear	0	50	25	1:1		10	0.794	1.371	1.089	-
1 720	132072	LTE 66	QPSK	A	Open	20	20.8	19.19	-0.12	Rear	0	50	49	1:1		10	0.772	1.449	1.119	-
1 770	132572	LTE 66	QPSK	A	Open	20	20.8	19.40	-0.03	Rear	0	50	0	1:1		10	0.817	1.380	1.127	B10
1 770	132572	LTE 66	QPSK	A	Open	20	20.8	19.39	-0.01	Rear	0	100	0	1:1		10	0.808	1.384	1.118	
1 770	132572	LTE 66	QPSK	A	Open	20	20.8	19.71	-0.00	Front	0	1	49	1:1		10	0.535	1.285	0.687	-
1 745	132322	LTE 66	QPSK	A	Open	20	20.8	19.43	-0.03	Front	0	50	25	1:1		10	0.518	1.371	0.710	-
1 770	132572	LTE 66	QPSK	A	Open	20	20.8	19.71	-0.03	Rear	0	1	49	1:1		10	0.814	1.285	1.046	#
1 770	132572	LTE 66	QPSK	A	Close	20	20.8	19.71	-0.09	Rear	0	1	49	1:1		10	0.297	1.285	0.382	-
1 745	132322	LTE 66	QPSK	A	Close	20	20.8	19.43	-0.06	Rear	0	50	25	1:1		10	0.324	1.371	0.444	-
1 770	132572	LTE 66	QPSK	A	Close	20	20.8	19.71	-0.16	Front	0	1	49	1:1		10	0.089	1.285	0.114	-
1 745	132322	LTE 66	QPSK	A	Close	20	20.8	19.43	-0.14	Front	0	50	25	1:1		10	0.082	1.371	0.112	-
1 745	132322	LTE 66	QPSK	I	Open	20	21.5	20.93	0.18	Rear	0	1	49	1:1		10	0.606	1.140	0.691	-
1 720	132072	LTE 66	QPSK	I	Open	20	21.5	20.62	-0.16	Rear	0	50	49	1:1		10	0.629	1.225	0.771	-
1 745	132322	LTE 66	QPSK	I	Open	20	21.5	20.93	0.10	Front	0	1	49	1:1		10	0.352	1.140	0.401	-
1 720	132072	LTE 66	QPSK	I	Open	20	21.5	20.62	0.18	Front	0	50	49	1:1		10	0.350	1.225	0.429	-
1 745	132322	LTE 66	QPSK	I	Close	20	21.5	20.93	0.14	Rear	0	1	49	1:1		10	0.043	1.140	0.049	-
1 720	132072	LTE 66	QPSK	I	Close	20	21.5	20.62	0.15	Rear	0	50	49	1:1		10	0.038	1.225	0.047	-
1 745	132322	LTE 66	QPSK	I	Close	20	21.5	20.93	0.00	Front	0	1	49	1:1		10	0.370	1.140	0.422	-
1 720	132072	LTE 66	QPSK	I	Close	20	21.5	20.62	-0.17	Front	0	50	49	1:1		10	0.336	1.225	0.412	-
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 TDD Band Body-Worn SAR

Frequency		Band	Mode	Ant.	Form Factor	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)				
2 506	39750	LTE 41(PC3)	QPSK	B	Open	20	22.0	21.39	0.17	Rear	0	1	0	1:1.58		10	0.351	1.151	0.404	-
2 506	39750	LTE 41(PC3)	QPSK	B	Open	20	21.0	20.36	0.11	Rear	0	50	0	1:1.58		10	0.273	1.159	0.316	-
2 506	39750	LTE 41(PC3)	QPSK	B	Open	20	22.0	21.39	0.09	Front	0	1	0	1:1.58		10	0.274	1.151	0.315	-
2 506	39750	LTE 41(PC3)	QPSK	B	Open	20	21.0	20.36	0.14	Front	0	50	0	1:1.58		10	0.215	1.159	0.249	-
2 506	39750	LTE 41(PC2)	QPSK	B	Open	20	24.0	23.39	-0.13	Rear	0	1	0	1:2.31		10	0.404	1.151	0.465	-
2 506	39750	LTE 41(PC3)	QPSK	B	Close	20	22.0	21.39	0.12	Rear	0	1	0	1:1.58		10	0.327	1.151	0.376	-
2 506	39750	LTE 41(PC3)	QPSK	B	Close	20	21.0	20.36	0.12	Rear	0	50	0	1:1.58		10	0.251	1.159	0.291	-
2 506	39750	LTE 41(PC3)	QPSK	B	Close	20	22.0	21.39	-0.12	Front	0	1	0	1:1.58		10	0.018	1.151	0.021	-
2 506	39750	LTE 41(PC3)	QPSK	B	Close	20	21.0	20.36	-0.02	Front	0	50	0	1:1.58		10	0.014	1.159	0.016	-
2 506	39750	LTE 41(PC2)	QPSK	B	Close	20	24.0	23.39	-0.01	Rear	0	1	0	1:2.31		10	0.363	1.151	0.418	-
2549.50	40185	LTE 41(PC3)	QPSK	I	Open	20	23.5	22.86	0.13	Rear	0	1	0	1:1.58		10	0.478	1.159	0.554	B11
2506.00	39750	LTE 41(PC3)	QPSK	I	Open	20	23.5	22.98	-0.10	Rear	0	50	49	1:1.58		10	0.419	1.127	0.472	-
2549.50	40185	LTE 41(PC3)	QPSK	I	Open	20	23.5	22.86	-0.14	Front	0	1	0	1:1.58		10	0.388	1.159	0.450	-
2506.00	39750	LTE 41(PC3)	QPSK	I	Open	20	23.5	22.98	0.00	Front	0	50	49	1:1.58		10	0.348	1.127	0.392	-
2549.50	40185	LTE 41(PC2)	QPSK	I	Open	20	25.1	24.79	0.16	Rear	0	1	0	1:2.31		10	0.451	1.074	0.484	-
2549.50	40185	LTE 41(PC3)	QPSK	I	Close	20	23.5	22.86	-0.04	Rear	0	1	0	1:1.58		10	0.203	1.159	0.235	-
2506.00	39750	LTE 41(PC3)	QPSK	I	Close	20	22.0	22.98	0.00	Rear	0	50	49	1:1.58		10	0.182	0.798	0.145	-
2549.50	40185	LTE 41(PC3)	QPSK	I	Close	20	23.5	22.86	0.13	Front	0	1	0	1:1.58		10	0.372	1.159	0.431	-
2506.00	39750	LTE 41(PC3)	QPSK	I	Close	20	22.0	22.98	0.04	Front	0	50	49	1:1.58		10	0.370	0.798	0.295	-
2549.50	40185	LTE 41(PC2)	QPSK	I	Close	20	25.1	24.79	-0.10	Front	0	1	0	1:2.31		10	0.342	1.074	0.367	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram										

NR FDD Band Body-Worn SAR

Frequency		Band	Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.					(MHz)	(dBm)	(dBm)	(dB)		(dB)	(mm)	(W/kg)			(W/kg)				
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Open	20	24.5	23.91	-0.04	Rear	0	1	53	1:1		10	0.482	1.146	0.552	-
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Open	20	24.5	23.85	-0.10	Rear	0	50	28	1:1		10	0.491	1.161	0.570	-
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Open	20	24.5	23.91	-0.12	Front	0	1	53	1:1		10	0.347	1.146	0.398	-
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Open	20	24.5	23.85	-0.11	Front	0	50	28	1:1		10	0.348	1.161	0.404	-
836.5	167300	NR n5	CP QPSK	A	Open	20	23.0	22.39	-0.17	Rear	1.5	1	1	1:1		10	0.333	1.151	0.383	-
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Close	20	24.5	23.91	0.10	Rear	0	1	53	1:1		10	0.539	1.146	0.618	B12
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Close	20	24.5	23.85	-0.04	Rear	0	50	28	1:1		10	0.522	1.161	0.606	-
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Close	20	24.5	23.91	0.06	Front	0	1	53	1:1		10	0.293	1.146	0.336	-
836.5	167300	NR n5	DFT-s OFDM QPSK	A	Close	20	24.5	23.85	-0.04	Front	0	50	28	1:1		10	0.293	1.161	0.340	-
836.5	167300	NR n5	CP QPSK	A	Close	20	23.0	22.39	0.03	Rear	1.5	1	1	1:1		10	0.322	1.151	0.371	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Open	40	21.3	20.52	-0.13	Rear	0	1	214	1:1		10	0.906	1.197	1.084	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	-0.11	Rear	0	108	0	1:1		10	0.916	1.194	1.094	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Open	40	21.3	20.51	0.12	Rear	0	216	0	1:1		10	0.906	1.199	1.086	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Open	40	21.3	20.52	0.11	Front	0	1	214	1:1		10	0.584	1.197	0.699	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	-0.09	Front	0	108	0	1:1		10	0.615	1.194	0.734	-
1882.5	376500	NR n25	CP QPSK	A	Open	40	21.3	20.54	0.09	Rear	0	1	1	1:1		10	0.915	1.191	1.090	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	-0.13	Rear	0	108	0	1:1		10	0.924	1.194	1.103	B13#
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Close	40	21.3	20.52	-0.16	Rear	0	1	214	1:1		10	0.620	1.197	0.742	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Close	40	21.3	20.53	-0.17	Rear	0	108	0	1:1		10	0.446	1.194	0.533	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Close	40	21.3	20.52	0.13	Front	0	1	214	1:1		10	0.025	1.197	0.030	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	A	Close	40	21.3	20.53	0.00	Front	0	108	0	1:1		10	0.034	1.194	0.041	-
1882.5	376500	NR n25	CP QPSK	A	Close	40	21.3	20.54	-0.09	Rear	0	1	1	1:1		10	0.390	1.191	0.464	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Open	40	22.0	20.97	0.16	Rear	0	1	214	1:1		10	0.399	1.268	0.506	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Open	40	22.0	20.99	-0.15	Rear	0	108	0	1:1		10	0.378	1.262	0.477	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Open	40	22.0	20.97	0.06	Front	0	1	214	1:1		10	0.341	1.268	0.432	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Open	40	22.0	20.99	-0.19	Front	0	108	0	1:1		10	0.338	1.262	0.427	-
1882.5	376500	NR n25	CP QPSK	I	Open	40	22.0	21.09	-0.14	Rear	0	1	1	1:1		10	0.384	1.233	0.473	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Close	40	22.0	20.97	-0.11	Rear	0	1	214	1:1		10	0.060	1.268	0.076	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Close	40	22.0	20.99	-0.15	Rear	0	108	0	1:1		10	0.062	1.262	0.078	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Close	40	22.0	20.97	-0.15	Front	0	1	214	1:1		10	0.211	1.268	0.268	-
1882.5	376500	NR n25	DFT-s OFDM QPSK	I	Close	40	22.0	20.99	0.00	Front	0	108	0	1:1		10	0.195	1.262	0.246	-
1882.5	376500	NR n25	CP QPSK	I	Close	40	22.0	21.09	0.00	Front	0	1	1	1:1		10	0.195	1.233	0.240	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	0.05	Rear	0	1	214	1:1		10	0.888	1.262	1.121	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Open	40	21.3	20.23	-0.02	Rear	0	108	108	1:1		10	0.882	1.279	1.128	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Open	40	21.3	20.14	-0.04	Rear	0	216	0	1:1		10	0.857	1.306	1.119	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	0.13	Front	0	1	214	1:1		10	0.566	1.262	0.714	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Open	40	21.3	20.23	0.06	Front	0	108	108	1:1		10	0.566	1.279	0.724	-
1745	349000	NR n66	CP QPSK	A	Open	40	21.3	20.18	0.15	Rear	0	1	1	1:1		10	0.807	1.294	1.044	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	0.03	Rear	0	1	214	1:1		10	0.904	1.262	1.141	B14#
1745	349000	NR n66	DFT-s OFDM QPSK	A	Close	40	21.3	20.29	-0.09	Rear	0	1	214	1:1		10	0.333	1.262	0.420	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Close	40	21.3	20.23	-0.07	Rear	0	108	108	1:1		10	0.322	1.279	0.412	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Close	40	21.3	20.29	-0.17	Front	0	1	214	1:1		10	0.183	1.262	0.231	-
1745	349000	NR n66	DFT-s OFDM QPSK	A	Close	40	21.3	20.23	-0.15	Front	0	108	108	1:1		10	0.244	1.279	0.312	-
1745	349000	NR n66	CP QPSK	A	Close	40	21.3	20.18	-0.05	Rear	0	1	1	1:1		10	0.330	1.294	0.427	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Open	40	21.5	20.50	-0.14	Rear	0	1	214	1:1		10	0.632	1.259	0.796	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Open	40	21.5	20.58	-0.14	Rear	0	108	0	1:1		10	0.622	1.236	0.769	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Open	40	21.5	20.50	-0.16	Front	0	1	214	1:1		10	0.385	1.259	0.485	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Open	40	21.5	20.58	-0.05	Front	0	108	0	1:1		10	0.377	1.236	0.466	-
1745	349000	NR n66	CP QPSK	I	Open	40	21.5	20.60	-0.12	Rear	0	1	1	1:1		10	0.672	1.230	0.827	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Close	40	21.5	20.50	-0.15	Rear	0	1	214	1:1		10	0.066	1.259	0.083	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Close	40	21.5	20.58	0.00	Rear	0	108	0	1:1		10	0.046	1.236	0.057	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Close	40	21.5	20.50	0.00	Front	0	1	214	1:1		10	0.144	1.259	0.181	-
1745	349000	NR n66	DFT-s OFDM QPSK	I	Close	40	21.5	20.58	0.00	Front	0	108	0	1:1		10	0.144	1.236	0.178	-
1745	349000	NR n66	CP QPSK	I	Close	40	21.5	20.60	0.00	Front	0	1	1	1:1		10	0.148	1.230	0.182	-
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 TDD Band Body-Worn SAR

Frequency		Band	Mode	Ant.	Form Factor	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)		
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Open	100	22.0	21.25	0.12	Rear	0	1	1	1:1		10	0.640	1.189	0.761	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Open	100	22.0	21.21	0.16	Rear	0	135	0	1:1		10	0.719	1.199	0.862	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Open	100	22.0	21.19	0.10	Rear	0	270	0	1:1		10	0.760	1.205	0.916	B15
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Open	100	22.0	21.25	0.16	Front	0	1	1	1:1		10	0.597	1.189	0.710	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Open	100	22.0	21.21	-0.06	Front	0	135	0	1:1		10	0.568	1.199	0.681	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Open	100	22.0	21.19	-0.11	Front	0	270	0	1:1		10	0.553	1.205	0.666	-
2 592.99	518598	NR n41	CP QPSK	I	Open	100	22.0	21.34	0.10	Rear	0	1	1	1:1		10	0.640	1.189	0.761	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Close	100	22.0	21.25	0.10	Rear	0	1	1	1:1		10	0.206	1.189	0.245	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Close	100	22.0	21.21	0.10	Rear	0	135	0	1:1		10	0.195	1.199	0.234	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Close	100	22.0	21.25	-0.11	Front	0	1	1	1:1		10	0.525	1.189	0.624	-
2 592.99	518598	NR n41	DFT-s OFDM QPSK	I	Close	100	22.0	21.21	-0.18	Front	0	135	0	1:1		10	0.515	1.199	0.617	-
2 592.99	518598	NR n41	CP QPSK	I	Close	100	22.0	21.19	-0.19	Front	0	270	1	1:1		10	0.454	1.205	0.547	-
2 592.99	518598	NR n41	CP QPSK	I	Close	100	22.0	21.34	-0.16	Front	0	1	1	1:1		10	0.556	1.164	0.647	-
2 592.99	518598	NR n41	CW SRS #2	B	Open	100	17.0	16.78	0.00	Rear	0	-	-	1:1		10	0.343	1.052	0.361	-
2 592.99	518598	NR n41	CW SRS #2	B	Open	100	17.0	16.78	0.00	Front	0	-	-	1:1		10	0.217	1.052	0.228	-
2 592.99	518598	NR n41	CW SRS #3	F	Open	100	19.0	18.50	0.12	Rear	0	-	-	1:1		10	0.214	1.122	0.240	-
2 592.99	518598	NR n41	CW SRS #3	F	Open	100	19.0	18.50	0.15	Front	0	-	-	1:1		10	0.178	1.122	0.200	-
2 592.99	518598	NR n41	CW SRS #4	C	Open	100	13.5	12.35	0.10	Rear	0	-	-	1:1		10	0.072	1.303	0.094	-
2 592.99	518598	NR n41	CW SRS #4	C	Open	100	13.5	12.35	-0.10	Front	0	-	-	1:1		10	0.085	1.303	0.111	-
2 592.99	518598	NR n41	CW SRS #2	B	Close	100	17.0	16.78	0.00	Rear	0	-	-	1:1		10	0.239	1.052	0.251	-
2 592.99	518598	NR n41	CW SRS #2	B	Close	100	17.0	16.78	0.00	Front	0	-	-	1:1		10	0.000	1.052	0.000	-
2 592.99	518598	NR n41	CW SRS #3	F	Close	100	19.0	18.50	-0.16	Rear	0	-	-	1:1		10	0.035	1.122	0.039	-
2 592.99	518598	NR n41	CW SRS #3	F	Close	100	19.0	18.50	0.15	Front	0	-	-	1:1		10	0.182	1.122	0.204	-
2 592.99	518598	NR n41	CW SRS #4	C	Close	100	13.5	12.35	-0.04	Rear	0	-	-	1:1		10	0.052	1.303	0.068	-
2 592.99	518598	NR n41	CW SRS #4	C	Close	100	13.5	12.35	-0.15	Front	0	-	-	1:1		10	0.010	1.303	0.013	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram										

NR TDD Band Body-Worn SAR																				
Frequency		Band	Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.					(MHz)	(dBm)	(dBm)	(dB)		(dB)	(mm)	(W/kg)			(W/kg)				
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Open	100	19.5	18.70	0.11	Rear	0	1	271	1:1		10	0.327	1.202	0.393	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Open	100	19.5	18.41	0.16	Rear	0	135	69	1:1		10	0.242	1.285	0.311	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Open	100	19.5	18.70	0.00	Front	0	1	271	1:1		10	0.107	1.202	0.129	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Open	100	19.5	18.41	0.00	Front	0	135	69	1:1		10	0.113	1.285	0.145	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Open	100	19.5	18.45	0.08	Rear	0	270	0	1:1		10	0.276	1.274	0.352	-
3 750.00	650000	NR n77	CP QPSK	F	Open	100	19.5	18.57	-0.17	Rear	0	1	1	1:1		10	0.426	1.239	0.528	-
3 500.01	633334	NR n77	DFT-s OFDM QPSK	F	Open	100	19.5	18.35	-0.12	Rear	0	135	0	1:1		10	0.400	1.303	0.521	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.70	-0.06	Rear	0	1	271	1:1		10	0.033	1.202	0.040	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.41	0.08	Rear	0	135	69	1:1		10	0.031	1.285	0.040	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.70	0.06	Front	0	1	271	1:1		10	0.448	1.202	0.538	B16
3 750.00	650000	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.48	-0.10	Front	0	1	271	1:1		10	0.338	1.265	0.428	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.41	-0.11	Front	0	135	69	1:1		10	0.365	1.285	0.469	-
3 750.00	650000	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.32	0.04	Front	0	135	69	1:1		10	0.285	1.312	0.374	-
3 930.00	662000	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.45	0.03	Front	0	270	0	1:1		10	0.296	1.274	0.377	-
3 750.00	650000	NR n77	CP QPSK	F	Close	100	19.5	18.57	0.13	Front	0	1	1	1:1		10	0.295	1.239	0.366	-
3 500.01	633334	NR n77	DFT-s OFDM QPSK	F	Close	100	19.5	18.35	0.14	Front	0	135	0	1:1		10	0.243	1.303	0.317	-
3 930.00	662000	NR n77	CW SRS #2	I	Open	100	19.5	19.48	-0.11	Rear	0	-	-	1:1		10	0.113	1.005	0.114	-
3 930.00	662000	NR n77	CW SRS #2	I	Open	100	19.5	19.48	-0.11	Front	0	-	-	1:1		10	0.052	1.005	0.052	-
3 500.01	633334	NR n77	CW SRS #2	I	Open	100	19.5	18.39	-0.01	Rear	0	-	-	1:1		10	0.266	1.291	0.343	-
3 930.00	662000	NR n77	CW SRS #3	E	Open	100	19.5	19.47	0.18	Rear	0	-	-	1:1		10	0.114	1.007	0.115	-
3 930.00	662000	NR n77	CW SRS #3	E	Open	100	19.5	19.47	0.15	Front	0	-	-	1:1		10	0.169	1.007	0.170	-
3 500.01	633334	NR n77	CW SRS #3	E	Open	100	19.5	18.35	0.11	Front	0	-	-	1:1		10	0.116	1.303	0.151	-
3 930.00	662000	NR n77	CW SRS #4	C	Open	100	13.0	11.64	0.00	Rear	0	-	-	1:1		10	0.034	1.368	0.047	-
3 930.00	662000	NR n77	CW SRS #4	C	Open	100	13.0	11.64	0.00	Front	0	-	-	1:1		10	0.017	1.368	0.023	-
3 500.01	633334	NR n77	CW SRS #4	C	Open	100	13.0	11.13	0.19	Rear	0	-	-	1:1		10	0.093	1.538	0.143	-
3 930.00	662000	NR n77	CW SRS #2	I	Open	100	19.5	19.48	-0.17	Rear	0	-	-	1:1		10	0.012	1.005	0.012	-
3 930.00	662000	NR n77	CW SRS #2	I	Close	100	19.5	19.48	-0.15	Front	0	-	-	1:1		10	0.152	1.005	0.153	-
3 500.01	633334	NR n77	CW SRS #2	I	Close	100	19.5	18.39	-0.11	Front	0	-	-	1:1		10	0.237	1.291	0.306	-
3 930.00	662000	NR n77	CW SRS #3	E	Close	100	19.5	19.47	0.13	Rear	0	-	-	1:1		10	0.065	1.007	0.065	-
3 930.00	662000	NR n77	CW SRS #3	E	Close	100	19.5	19.47	0.12	Front	0	-	-	1:1		10	0.056	1.007	0.056	-
3 500.01	633334	NR n77	CW SRS #3	E	Close	100	19.5	18.35	0.14	Front	0	-	-	1:1		10	0.021	1.303	0.027	-
3 930.00	662000	NR n77	CW SRS #4	C	Close	100	13.0	11.64	0.00	Rear	0	-	-	1:1		10	0.019	1.368	0.026	-
3 930.00	662000	NR n77	CW SRS #4	C	Close	100	13.0	11.64	0.00	Front	0	-	-	1:1		10	0.000	1.368	0.000	-
3 500.01	633334	NR n77	CW SRS #4	C	Close	100	13.0	11.13	-0.01	Rear	0	-	-	1:1		10	0.058	1.538	0.089	-
ANSI/ IEEE C95.1 - 2005– Safety Limit										Body										
Spatial Peak										1.6 W/kg										
Uncontrolled Exposure/ General Population										Averaged over 1 gram										

DTS Body-Worn SAR

Frequency		Mode	Ant.	Form Factor	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	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	Ant.1	Close	20	1	19.0	17.86	-0.11	Rear	98.8	10	0.0500	0.016	1.300	1.012	0.021	-
2 412	1	802.11b	Ant.1	Close	20	1	19.0	17.86	-0.13	Front	98.8	10	0.145	0.052	1.300	1.012	0.068	-
2 412	1	802.11b	Ant.1	Open	20	1	19.0	17.86	-0.05	Rear	98.8	10	0.437	0.269	1.300	1.012	0.354	B17
2 412	1	802.11b	Ant.1	Open	20	1	19.0	17.86	0.15	Front	98.8	10	0.379	0.231	1.300	1.012	0.304	-
2 437	6	802.11b	Ant.2	Close	20	1	19.0	17.55	0.19	Rear	98.8	10	0.0341	0.024	1.396	1.012	0.034	-
2 437	6	802.11b	Ant.2	Close	20	1	19.0	17.55	0.00	Front	98.8	10	0.101	0.042	1.396	1.012	0.059	-
2 437	6	802.11b	Ant.2	Open	20	1	19.0	17.55	-0.05	Rear	98.8	10	0.226	0.141	1.396	1.012	0.199	-
2 437	6	802.11b	Ant.2	Open	20	1	19.0	17.55	-0.12	Front	98.8	10	0.143	0.091	1.396	1.012	0.129	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

5 GHz WLAN Body-Worn SAR

Frequency		Mode	Ant.	Form Factor	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	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.																	
5 300	60	802.11a	Ant.1	Open	20	6	16.0	14.64	0.16	Rear	94.2	10	0.481	0.214	1.368	1.062	0.311	-
5 300	60	802.11a	Ant.1	Open	20	6	16.0	14.64		Front	94.2	10	0.206		1.368	1.062		-
5 620	124	802.11a	Ant.1	Open	20	6	16.0	15.17	0.05	Rear	94.2	10	0.364	0.155	1.211	1.062	0.199	-
5 620	124	802.11a	Ant.1	Open	20	6	16.0	15.17		Front	94.2	10	0.180		1.211	1.062		-
5 785	157	802.11a	Ant.1	Open	20	6	16.0	15.31	-0.18	Rear	94.2	10	0.543	0.146	1.172	1.062	0.182	-
5 785	157	802.11a	Ant.1	Open	20	6	16.0	15.31		Front	94.2	10	0.140		1.172	1.062		-
5 865	173	802.11a	Ant.1	Open	20	6	16.0	15.49	0.19	Rear	94.2	10	0.500	0.205	1.125	1.062	0.245	-
5 865	173	802.11a	Ant.1	Open	20	6	16.0	15.49		Front	94.2	10	0.261		1.125	1.062		-
5 300	60	802.11a	Ant.1	Close	20	6	16.0	14.64		Rear	94.2	10	0.079		1.368	1.062		-
5 300	60	802.11a	Ant.1	Close	20	6	16.0	14.64	-0.14	Front	94.2	10	0.569	0.255	1.368	1.062	0.370	B18
5 620	124	802.11a	Ant.1	Close	20	6	16.0	15.17		Rear	94.2	10	0.0736		1.211	1.062		-
5 620	124	802.11a	Ant.1	Close	20	6	16.0	15.17	0.00	Front	94.2	10	0.580	0.226	1.211	1.062	0.291	-
5 785	157	802.11a	Ant.1	Close	20	6	16.0	15.31		Rear	94.2	10	0.0753		1.172	1.062		-
5 785	157	802.11a	Ant.1	Close	20	6	16.0	15.31	0.19	Front	94.2	10	0.292	0.084	1.172	1.062	0.105	-
5 865	173	802.11a	Ant.1	Close	20	6	16.0	15.49		Rear	94.2	10	0.103		1.125	1.062		-
5 865	173	802.11a	Ant.1	Close	20	6	16.0	15.49	-0.05	Front	94.2	10	0.365	0.132	1.125	1.062	0.158	-
5 300	60	802.11a	Ant.2	Open	20	6	16.0	15.09	0.00	Rear	94.2	10	0.512	0.218	1.233	1.062	0.285	-
5 300	60	802.11a	Ant.2	Open	20	6	16.0	15.09		Front	94.2	10	0.249		1.233	1.062		-
5 600	120	802.11a	Ant.2	Open	20	6	16.0	15.95	0.00	Rear	94.2	10	0.721	0.283	1.012	1.062	0.304	-
5 600	120	802.11a	Ant.2	Open	20	6	16.0	15.95		Front	94.2	10	0.167		1.012	1.062		-
5 785	157	802.11a	Ant.2	Open	20	6	16.0	15.11	0.19	Rear	94.2	10	0.351	0.133	1.227	1.062	0.173	-
5 785	157	802.11a	Ant.2	Open	20	6	16.0	15.11		Front	94.2	10	0.176		1.227	1.062		-
5 865	173	802.11a	Ant.2	Open	20	6	16.0	14.71	-0.16	Rear	94.2	10	0.420	0.152	1.346	1.062	0.217	-
5 865	173	802.11a	Ant.2	Open	20	6	16.0	14.71		Front	94.2	10	0.166		1.346	1.062		-
5 300	60	802.11a	Ant.2	Close	20	6	16.0	15.09		Rear	94.2	10	0.042		1.233	1.062		-
5 300	60	802.11a	Ant.2	Close	20	6	16.0	15.09	-0.14	Front	94.2	10	0.541	0.237	1.233	1.062	0.310	-
5 600	120	802.11a	Ant.2	Close	20	6	16.0	15.95		Rear	94.2	10	0.086		1.012	1.062		-
5 785	157	802.11a	Ant.2	Close	20	6	16.0	15.11		Rear	94.2	10	0.0984		1.227	1.062		-
5 785	157	802.11a	Ant.2	Close	20	6	16.0	15.11	0.00	Front	94.2	10	0.290	0.106	1.227	1.062	0.138	-
5 600	120	802.11a	Ant.2	Close	20	6	16.0	15.95	0.11	Front	94.2	10	0.618	0.248	1.012	1.062	0.266	-
5 865	173	802.11a	Ant.2	Close	20	6	16.0	14.71		Rear	94.2	10	0.0965		1.346	1.062		-
5 865	173	802.11a	Ant.2	Close	20	6	16.0	14.71	0.00	Front	94.2	10	0.304	0.109	1.346	1.062	0.156	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

DSS Body-Worn SAR														
Frequency		Mode	Ant.	Form Factor	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	Ant.1	Open	19.0	18.82	-0.09	Rear	10	0.169	1.042	1.010	0.178	-
2 402	0	Bluetooth DH5	Ant.1	Open	19.0	18.82	0.13	Front	10	0.120	1.042	1.010	0.126	-
2 402	0	Bluetooth DH5	Ant.1	Close	19.0	18.82	0.15	Rear	10	0.047	1.042	1.010	0.049	-
2 402	0	Bluetooth DH5	Ant.1	Close	19.0	18.82	0.05	Front	10	0.184	1.042	1.010	0.194	B19
2 441	39	Bluetooth DH5	Ant.2	Open	18.0	17.72	0.13	Rear	10	0.039	1.067	1.010	0.042	-
2 441	39	Bluetooth DH5	Ant.2	Open	18.0	17.72	0.00	Front	10	0.050	1.067	1.010	0.054	-
2 441	39	Bluetooth DH5	Ant.2	Close	18.0	17.72	0.18	Rear	10	0.015	1.067	1.010	0.016	-
2 441	39	Bluetooth DH5	Ant.2	Close	18.0	17.72	0.11	Front	10	0.042	1.067	1.010	0.045	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

13.3 Hotspot SAR Measurement Results

GSM 850 Hotspot SAR															
Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GPRS 4Tx	A	Open	23.5	22.28	-0.17	Rear	1:2.07	10		0.125	1.324	0.166	-
836.6	190	GPRS 4Tx	A	Open	23.5	22.28	-0.11	Front	1:2.07	10		0.092	1.324	0.122	-
836.6	190	GPRS 4Tx	A	Open	23.5	22.28	0.17	Left	1:2.07	10		0.026	1.324	0.034	-
836.6	190	GPRS 4Tx	A	Open	23.5	22.28	0.01	Right	1:2.07	10		0.087	1.324	0.115	-
836.6	190	GPRS 4Tx	A	Open	23.5	22.28	0.12	Bottom	1:2.07	10		0.045	1.324	0.060	-
836.6	190	GPRS 4Tx	A	Close	23.5	22.28	-0.06	Rear	1:2.07	5		0.205	1.324	0.271	C1
836.6	190	GPRS 4Tx	A	Close	23.5	22.28	-0.13	Front	1:2.07	5		0.071	1.324	0.094	-
836.6	190	GPRS 4Tx	A	Close	23.5	22.28	-0.11	Left	1:2.07	5		0.072	1.324	0.095	-
836.6	190	GPRS 4Tx	A	Close	23.5	22.28	-0.01	Right	1:2.07	5		0.021	1.324	0.028	-
836.6	190	GPRS 4Tx	A	Close	23.5	22.28	0.13	Bottom	1:2.07	5		0.076	1.324	0.101	-
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															
Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
1880	661	GPRS 3Tx	A	Open	21.0	19.34	-0.11	Rear	1:2.77	10		0.292	1.466	0.428	-
1880	661	GPRS 3Tx	A	Open	21.0	19.34	0.13	Front	1:2.77	10		0.186	1.466	0.273	-
1880	661	GPRS 3Tx	A	Open	21.0	19.34	0.12	Left	1:2.77	10		0.043	1.466	0.063	-
1880	661	GPRS 3Tx	A	Open	21.0	19.34	-0.16	Right	1:2.77	10		0.025	1.466	0.037	-
1880	661	GPRS 3Tx	A	Open	21.0	19.34	0.13	Bottom	1:2.77	10		0.447	1.466	0.655	-
1880	661	GPRS 3Tx	A	Close	21.0	19.34	-0.13	Rear	1:2.77	5		0.423	1.466	0.620	-
1880	661	GPRS 3Tx	A	Close	21.0	19.34	0.08	Front	1:2.77	5		0.081	1.466	0.119	-
1880	661	GPRS 3Tx	A	Close	21.0	19.34	0.13	Left	1:2.77	5		0.022	1.466	0.032	-
1880	661	GPRS 3Tx	A	Close	21.0	19.34	0.16	Right	1:2.77	5		0.0078	1.466	0.011	-
1880	661	GPRS 3Tx	A	Close	21.0	19.34	0.16	Bottom	1:2.77	5		0.540	1.466	0.792	C2
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram							

UMTS Band 5 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	4183	RMC	A	Open	22.5	21.63	0.11	Rear	1:1	10		0.226	1.222	0.276	-
836.6	4183	RMC	A	Open	22.5	21.63	-0.14	Front	1:1	10		0.113	1.222	0.138	-
836.6	4183	RMC	A	Open	22.5	21.63	0.10	Left	1:1	10		0.132	1.222	0.161	-
836.6	4183	RMC	A	Open	22.5	21.63	0.05	Right	1:1	10		0.210	1.222	0.257	-
836.6	4183	RMC	A	Open	22.5	21.63	0.17	Bottom	1:1	10		0.079	1.222	0.097	-
836.6	4183	RMC	A	Close	22.5	21.63	-0.10	Rear	1:1	5		0.514	1.222	0.628	C3
836.6	4183	RMC	A	Close	22.5	21.63	-0.01	Front	1:1	5		0.116	1.222	0.142	-
836.6	4183	RMC	A	Close	22.5	21.63	-0.11	Left	1:1	5		0.202	1.222	0.247	-
836.6	4183	RMC	A	Close	22.5	21.63	-0.15	Right	1:1	5		0.072	1.222	0.088	-
836.6	4183	RMC	A	Close	22.5	21.63	0.12	Bottom	1:1	5		0.133	1.222	0.163	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram							

UMTS Band 4 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
1732.4	1412	RMC	A	Open	18.5	17.85	0.01	Rear	1:1	10		0.418	1.161	0.485	-
1732.4	1412	RMC	A	Open	18.5	17.85	0.18	Front	1:1	10		0.261	1.161	0.303	-
1732.4	1412	RMC	A	Open	18.5	17.85	0.18	Left	1:1	10		0.064	1.161	0.074	-
1732.4	1412	RMC	A	Open	18.5	17.85	-0.08	Right	1:1	10		0.038	1.161	0.044	-
1732.4	1412	RMC	A	Open	18.5	17.85	0.19	Bottom	1:1	10		0.626	1.161	0.727	-
1732.4	1412	RMC	A	Close	18.5	17.85	-0.03	Rear	1:1	5		0.527	1.161	0.612	-
1732.4	1412	RMC	A	Close	18.5	17.85	-0.17	Front	1:1	5		0.292	1.161	0.339	-
1732.4	1412	RMC	A	Close	18.5	17.85	0.19	Left	1:1	5		0.100	1.161	0.116	-
1732.4	1412	RMC	A	Close	18.5	17.85	0.09	Right	1:1	5		0.027	1.161	0.031	-
1732.4	1412	RMC	A	Close	18.5	17.85	0.18	Bottom	1:1	5		0.676	1.161	0.785	C4
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram							

UMTS Band 2 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)					(W/kg)		(W/kg)	
1880	9400	RMC	A	Open	16.5	15.43	0.14	Rear	1:1	10		0.295	1.279	0.377	-
1880	9400	RMC	A	Open	16.5	15.43	0.19	Front	1:1	10		0.191	1.279	0.244	-
1880	9400	RMC	A	Open	16.5	15.43	0.06	Left	1:1	10		0.059	1.279	0.075	-
1880	9400	RMC	A	Open	16.5	15.43	0.19	Right	1:1	10		0.027	1.279	0.035	-
1880	9400	RMC	A	Open	16.5	15.43	0.19	Bottom	1:1	10		0.504	1.279	0.645	-
1880	9400	RMC	A	Close	16.5	15.43	-0.11	Rear	1:1	5		0.544	1.279	0.696	-
1880	9400	RMC	A	Close	16.5	15.43	-0.12	Front	1:1	5		0.102	1.279	0.130	-
1880	9400	RMC	A	Close	16.5	15.43	0.15	Left	1:1	5		0.045	1.279	0.058	-
1880	9400	RMC	A	Close	16.5	15.43	0.11	Right	1:1	5		0.019	1.279	0.024	-
1880	9400	RMC	A	Close	16.5	15.43	0.19	Bottom	1:1	5		0.750	1.279	0.959	-
1852.4	9262	RMC	A	Close	16.5	15.39	0.13	Bottom	1:1	5		0.533	1.291	0.688	-
1907.6	9538	RMC	A	Close	16.5	15.87	0.14	Bottom	1:1	5		0.971	1.156	1.122	C5
1907.6	9538	RMC	A	Close	16.5	15.87	0.18	Bottom	1:1	5		0.966	1.156	1.117	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram							

Note: # Data entry indicate Variability measurement.

LTE FDD Band 12 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	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	23095	QPSK	A	Open	10	22.0	21.06	-0.04	Rear	0	1	0	1:1		10	0.218	1.219	0.271	-
707.5	23095	QPSK	A	Open	10	22.0	20.88	-0.05	Rear	0	25	0	1:1		10	0.213	1.227	0.276	-
707.5	23095	QPSK	A	Open	10	22.0	21.06	-0.10	Front	0	1	0	1:1		10	0.145	1.219	0.180	-
707.5	23095	QPSK	A	Open	10	22.0	20.88	-0.19	Front	0	25	0	1:1		10	0.144	1.227	0.186	-
707.5	23095	QPSK	A	Open	10	22.0	21.06	-0.07	Left	0	1	0	1:1		10	0.160	1.219	0.199	-
707.5	23095	QPSK	A	Open	10	22.0	20.88	-0.14	Left	0	25	0	1:1		10	0.152	1.227	0.197	-
707.5	23095	QPSK	A	Open	10	22.0	21.06	-0.08	Right	0	1	0	1:1		10	0.186	1.219	0.231	-
707.5	23095	QPSK	A	Open	10	22.0	20.88	-0.14	Right	0	25	0	1:1		10	0.186	1.227	0.241	-
707.5	23095	QPSK	A	Open	10	22.0	21.06	0.01	Bottom	0	1	0	1:1		10	0.112	1.219	0.139	-
707.5	23095	QPSK	A	Open	10	22.0	20.88	-0.04	Bottom	0	25	0	1:1		10	0.103	1.227	0.133	-
707.5	23095	QPSK	A	Close	10	22.0	21.06	-0.16	Rear	0	1	0	1:1		5	0.433	1.219	0.538	-
707.5	23095	QPSK	A	Close	10	22.0	20.88	-0.10	Rear	0	25	0	1:1		5	0.420	1.227	0.543	C6
707.5	23095	QPSK	A	Close	10	22.0	21.06	0.11	Front	0	1	0	1:1		5	0.113	1.219	0.140	-
707.5	23095	QPSK	A	Close	10	22.0	20.88	-0.15	Front	0	25	0	1:1		5	0.115	1.227	0.149	-
707.5	23095	QPSK	A	Close	10	22.0	21.06	0.14	Left	0	1	0	1:1		5	0.242	1.219	0.301	-
707.5	23095	QPSK	A	Close	10	22.0	20.88	0.11	Left	0	25	0	1:1		5	0.251	1.227	0.325	-
707.5	23095	QPSK	A	Close	10	22.0	21.06	0.08	Right	0	1	0	1:1		5	0.056	1.219	0.070	-
707.5	23095	QPSK	A	Close	10	22.0	20.88	-0.14	Right	0	25	0	1:1		5	0.064	1.227	0.083	-
707.5	23095	QPSK	A	Close	10	22.0	21.06	0.12	Bottom	0	1	0	1:1		5	0.285	1.219	0.354	-
707.5	23095	QPSK	A	Close	10	22.0	20.88	0.07	Bottom	0	25	0	1:1		5	0.279	1.227	0.361	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram										

LTE FDD Band 13 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
782	23230	QPSK	A	Open	10	22.0	20.68	-0.02	Rear	0	1	24	1:1		10	0.297	1.256	0.402	-
782	23230	QPSK	A	Open	10	22.0	20.58	-0.11	Rear	1	25	12	1:1		10	0.292	1.312	0.405	-
782	23230	QPSK	A	Open	10	22.0	20.68	-0.11	Front	0	1	24	1:1		10	0.201	1.256	0.272	-
782	23230	QPSK	A	Open	10	22.0	20.58	-0.18	Front	1	25	12	1:1		10	0.202	1.312	0.280	-
782	23230	QPSK	A	Open	10	22.0	20.68	-0.06	Left	0	1	24	1:1		10	0.090	1.256	0.122	-
782	23230	QPSK	A	Open	10	22.0	20.58	0.06	Left	1	25	12	1:1		10	0.089	1.312	0.123	-
782	23230	QPSK	A	Open	10	22.0	20.68	-0.19	Right	0	1	24	1:1		10	0.192	1.256	0.260	-
782	23230	QPSK	A	Open	10	22.0	20.58	0.02	Right	1	25	12	1:1		10	0.192	1.312	0.266	-
782	23230	QPSK	A	Open	10	22.0	20.68	0.07	Bottom	0	1	24	1:1		10	0.176	1.256	0.238	-
782	23230	QPSK	A	Open	10	22.0	20.58	0.02	Bottom	1	25	12	1:1		10	0.169	1.312	0.234	-
782	23230	QPSK	A	Close	10	22.0	20.68	0.08	Rear	0	1	24	1:1		5	0.516	1.256	0.699	-
782	23230	QPSK	A	Close	10	22.0	20.58	-0.13	Rear	1	25	12	1:1		5	0.508	1.312	0.705	C7
782	23230	QPSK	A	Close	10	22.0	20.68	0.05	Front	0	1	24	1:1		5	0.188	1.256	0.183	-
782	23230	QPSK	A	Close	10	22.0	20.58	0.07	Front	1	25	12	1:1		5	0.173	1.312	0.240	-
782	23230	QPSK	A	Close	10	22.0	20.68	0.11	Left	0	1	24	1:1		5	0.198	1.256	0.268	-
782	23230	QPSK	A	Close	10	22.0	20.58	0.07	Left	1	25	12	1:1		5	0.198	1.312	0.275	-
782	23230	QPSK	A	Close	10	22.0	20.68	0.00	Right	0	1	24	1:1		5	0.093	1.256	0.126	-
782	23230	QPSK	A	Close	10	22.0	20.58	-0.16	Right	1	25	12	1:1		5	0.088	1.312	0.122	-
782	23230	QPSK	A	Close	10	22.0	20.68	0.07	Bottom	0	1	24	1:1		5	0.406	1.256	0.550	-
782	23230	QPSK	A	Close	10	22.0	20.58	0.04	Bottom	1	25	12	1:1		5	0.389	1.312	0.540	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram										

LTE FDD Band 25 (PCS) Hotspot SAR

Frequency		Mode	Ant.	Form Factor	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.																		
1905	26590	QPSK	A	Open	20	16.3	15.50	-0.15	Rear	0	1	99	1:1		10	0.372	1.202	0.447	-
1905	26590	QPSK	A	Open	20	16.3	15.17	0.10	Rear	0	50	49	1:1		10	0.350	1.297	0.454	-
1905	26590	QPSK	A	Open	20	16.3	15.50	0.18	Front	0	1	99	1:1		10	0.240	1.202	0.288	-
1905	26590	QPSK	A	Open	20	16.3	15.17	0.05	Front	0	50	49	1:1		10	0.237	1.297	0.307	-
1905	26590	QPSK	A	Open	20	16.3	15.50	-0.13	Left	0	1	99	1:1		10	0.039	1.202	0.047	-
1905	26590	QPSK	A	Open	20	16.3	15.17	0.11	Left	0	50	49	1:1		10	0.038	1.297	0.049	-
1905	26590	QPSK	A	Open	20	16.3	15.50	0.04	Right	0	1	99	1:1		10	0.017	1.202	0.020	-
1905	26590	QPSK	A	Open	20	16.3	15.17	-0.14	Right	0	50	49	1:1		10	0.028	1.297	0.036	-
1905	26590	QPSK	A	Open	20	16.3	15.50	-0.01	Bottom	0	1	99	1:1		10	0.541	1.202	0.650	-
1905	26590	QPSK	A	Open	20	16.3	15.17	0.00	Bottom	0	50	49	1:1		10	0.521	1.297	0.676	-
1905	26590	QPSK	A	Close	20	16.3	15.50	-0.11	Rear	0	1	99	1:1		5	0.661	1.202	0.795	-
1905	26590	QPSK	A	Close	20	16.3	15.17	0.14	Rear	0	50	49	1:1		5	0.626	1.297	0.812	-
1905	26590	QPSK	A	Close	20	16.3	15.50	0.15	Front	0	1	99	1:1		5	0.035	1.202	0.042	-
1905	26590	QPSK	A	Close	20	16.3	15.17	-0.12	Front	0	50	49	1:1		5	0.038	1.297	0.049	-
1905	26590	QPSK	A	Close	20	16.3	15.50	-0.04	Left	0	1	99	1:1		5	0.053	1.202	0.064	-
1905	26590	QPSK	A	Close	20	16.3	15.17	-0.13	Left	0	50	49	1:1		5	0.055	1.297	0.071	-
1905	26590	QPSK	A	Close	20	16.3	15.50	-0.15	Right	0	1	99	1:1		5	0.031	1.202	0.037	-
1905	26590	QPSK	A	Close	20	16.3	15.17	-0.12	Right	0	50	49	1:1		5	0.030	1.297	0.039	-
1905	26590	QPSK	A	Close	20	16.3	15.50	-0.02	Bottom	0	1	99	1:1		5	0.908	1.202	1.091	-
1860	26140	QPSK	A	Close	20	16.3	15.07	-0.05	Bottom	0	1	0	1:1		5	0.549	1.327	0.729	-
1882.5	26365	QPSK	A	Close	20	16.3	15.38	-0.03	Bottom	0	1	99	1:1		5	0.685	1.236	0.847	-
1905	26590	QPSK	A	Close	20	16.3	15.17	0.00	Bottom	0	50	49	1:1		5	0.895	1.297	1.161	C8
1860	26140	QPSK	A	Close	20	16.3	15.06	-0.04	Bottom	0	50	25	1:1		5	0.537	1.330	0.714	-
1882.5	26365	QPSK	A	Close	20	16.3	15.09	0.03	Bottom	0	50	49	1:1		5	0.727	1.321	0.960	-
1905	26590	QPSK	A	Close	20	16.3	15.19	-0.01	Bottom	0	100	0	1:1		5	0.849	1.291	1.096	-
1905	26590	QPSK	A	Close	20	16.3	15.50	-0.03	Bottom	0	1	99	1:1		5	0.873	1.202	1.099	#
1860	26140	QPSK	I	Open	20	16.5	15.86	-0.18	Rear	0	1	49	1:1		10	0.193	1.159	0.224	-
1905	26590	QPSK	I	Open	20	16.5	15.66	-0.04	Rear	0	50	25	1:1		10	0.200	1.213	0.243	-
1860	26140	QPSK	I	Open	20	16.5	15.86	0.08	Front	0	1	49	1:1		10	0.138	1.159	0.160	-
1905	26590	QPSK	I	Open	20	16.5	15.66	0.03	Front	0	50	25	1:1		10	0.144	1.213	0.175	-
1860	26140	QPSK	I	Open	20	16.5	15.86	0.02	Right	0	1	49	1:1		10	0.344	1.159	0.399	-
1905	26590	QPSK	I	Open	20	16.5	15.66	-0.03	Right	0	50	25	1:1		10	0.349	1.213	0.423	-
1860	26140	QPSK	I	Open	20	16.5	15.86	0.00	Top	0	1	49	1:1		10	0.033	1.159	0.038	-
1905	26590	QPSK	I	Open	20	16.5	15.66	-0.06	Top	0	50	25	1:1		10	0.025	1.213	0.030	-
1860	26140	QPSK	I	Close	20	16.5	15.86	-0.03	Rear	0	1	49	1:1		5	0.032	1.159	0.037	-
1905	26590	QPSK	I	Close	20	16.5	15.66	-0.20	Rear	0	50	25	1:1		5	0.032	1.213	0.039	-
1860	26140	QPSK	I	Close	20	16.5	15.86	-0.07	Front	0	1	49	1:1		5	0.329	1.159	0.381	-
1905	26590	QPSK	I	Close	20	16.5	15.66	-0.18	Front	0	50	25	1:1		5	0.343	1.213	0.416	-
1860	26140	QPSK	I	Close	20	16.5	15.86	-0.07	Right	0	1	49	1:1		5	0.789	1.159	0.914	-
1882.5	26365	QPSK	I	Close	20	16.5	15.57	-0.07	Right	0	1	0	1:1		5	0.781	1.239	0.968	-
1905	26590	QPSK	I	Close	20	16.5	15.66	-0.03	Right	0	1	0	1:1		5	0.804	1.213	0.975	-
1905	26590	QPSK	I	Close	20	16.5	15.66	-0.03	Right	0	50	25	1:1		5	0.831	1.213	1.008	-
1860	26140	QPSK	I	Close	20	16.5	15.51	-0.04	Right	0	50	25	1:1		5	0.751	1.256	0.943	-
1882.5	26365	QPSK	I	Close	20	16.5	15.47	0.00	Right	0	50	0	1:1		5	0.819	1.268	1.038	-
1905	26590	QPSK	I	Close	20	16.5	15.56	-0.01	Right	0	100	0	1:1		5	0.815	1.242	1.012	-
1860	26140	QPSK	I	Close	20	16.5	15.86	0.00	Top	0	1	49	1:1		5	0.000	1.159	0.000	-
1905	26590	QPSK	I	Close	20	16.5	15.66	0.14	Top	0	50	25	1:1		5	0.002	1.213	0.002	-
1860	26140	QPSK	I	Close	20	16.5	15.86	-0.06	Bottom	0	1	49	1:1		5	0.057	1.159	0.066	-
1905	26590	QPSK	I	Close	20	16.5	15.66	-0.02	Bottom	0	50	25	1:1		5	0.027	1.213	0.033	-
1905	26590	QPSK	I	Close	20	16.5	15.66	-0.19	Right	0	50	25	1:1		5	0.753	1.213	0.913	#
ANSI/IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram									

Note: # Data entry indicate Variability measurement.

LTE FDD Band 26 (Cell) Hotspot SAR

Frequency		Mode	Ant.	Form Factor	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	A	Open	15	23.5	22.48	0.12	Rear	0	1	36	1:1		10	0.192	1.265	0.243	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	-0.03	Rear	0	36	0	1:1		10	0.204	1.265	0.258	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	-0.05	Front	0	1	36	1:1		10	0.174	1.265	0.220	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	0.10	Front	0	36	0	1:1		10	0.171	1.265	0.216	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	-0.04	Left	0	1	36	1:1		10	0.134	1.265	0.170	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	0.02	Left	0	36	0	1:1		10	0.133	1.265	0.168	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	0.02	Right	0	1	36	1:1		10	0.045	1.265	0.057	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	0.05	Right	0	36	0	1:1		10	0.052	1.265	0.066	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	-0.03	Bottom	0	1	36	1:1		10	0.089	1.265	0.113	-
831.5	26865	QPSK	A	Open	15	23.5	22.48	-0.03	Bottom	0	36	0	1:1		10	0.089	1.265	0.113	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	-0.08	Rear	0	1	36	1:1		5	0.517	1.265	0.654	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	-0.15	Rear	0	36	0	1:1		5	0.534	1.265	0.676	C9
831.5	26865	QPSK	A	Close	15	23.5	22.48	0.03	Front	0	1	36	1:1		5	0.231	1.265	0.292	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	0.09	Front	0	36	0	1:1		5	0.232	1.265	0.293	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	0.00	Left	0	1	36	1:1		5	0.106	1.265	0.134	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	-0.12	Left	0	36	0	1:1		5	0.106	1.265	0.134	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	-0.09	Right	0	1	36	1:1		5	0.096	1.265	0.121	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	-0.12	Right	0	36	0	1:1		5	0.094	1.265	0.120	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	0.15	Bottom	0	1	36	1:1		5	0.251	1.265	0.318	-
831.5	26865	QPSK	A	Close	15	23.5	22.48	0.14	Bottom	1	36	0	1:1		5	0.252	1.265	0.319	-
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

Frequency		Mode	Form Factor	Ant.	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.																		
2 506.0	39750	QPSK	Open	B	20	18.0	17.32	0.09	Rear	0	1	0	1:1.58		10	0.162	1.169	0.189	-
2 506.0	39750	QPSK	Open	B	20	18.0	17.30	-0.17	Rear	0	50	25	1:1.58		10	0.160	1.175	0.188	-
2 506.0	39750	QPSK	Open	B	20	18.0	17.32	0.13	Front	0	1	0	1:1.58		10	0.117	1.169	0.137	-
2 506.0	39750	QPSK	Open	B	20	18.0	17.30	-0.02	Front	0	50	25	1:1.58		10	0.117	1.175	0.137	-
2 506.0	39750	QPSK	Open	B	20	18.0	17.32	0.13	Left	0	1	0	1:1.58		10	0.025	1.169	0.029	-
2 506.0	39750	QPSK	Open	B	20	18.0	17.30	0.08	Left	0	50	25	1:1.58		10	0.024	1.175	0.028	-
2 506.0	39750	QPSK	Open	B	20	18.0	17.32	-0.07	Bottom	0	1	0	1:1.58		10	0.351	1.169	0.410	-
2 506.0	39750	QPSK	Open	B	20	18.0	17.30	-0.10	Bottom	0	50	25	1:1.58		10	0.404	1.175	0.475	-
2 506.0	39750	QPSK	Open	B	20	19.6	18.65	-0.04	Bottom	0	50	25	1:2.31		10	0.354	1.245	0.441	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.32	-0.19	Rear	0	1	0	1:1.58		5	0.232	1.169	0.271	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.30	0.18	Rear	0	50	25	1:1.58		5	0.233	1.175	0.274	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.32	-0.01	Front	0	1	0	1:1.58		5	0.021	1.169	0.025	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.30	-0.13	Front	0	50	25	1:1.58		5	0.025	1.175	0.029	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.32	0.08	Left	0	1	0	1:1.58		5	0.112	1.169	0.131	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.30	0.18	Left	0	50	25	1:1.58		5	0.112	1.175	0.132	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.32	0.11	Bottom	0	1	0	1:1.58		5	0.572	1.169	0.669	-
2 549.5	40185	QPSK	Close	B	20	18.0	16.97	0.06	Bottom	0	1	49	1:1.58		5	0.373	1.268	0.473	
2 593.0	40620	QPSK	Close	B	20	18.0	17.07	0.04	Bottom	0	1	0	1:1.58		5	0.394	1.239	0.488	
2 636.5	41055	QPSK	Close	B	20	18.0	17.08	0.07	Bottom	0	1	49	1:1.58		5	0.343	1.236	0.424	
2 680.0	41490	QPSK	Close	B	20	18.0	16.75	0.05	Bottom	0	1	0	1:1.58		5	0.305	1.334	0.407	
2 506.0	39750	QPSK	Close	B	20	18.0	17.30	0.09	Bottom	0	50	25	1:1.58		5	0.501	1.175	0.589	-
2 506.0	39750	QPSK	Close	B	20	18.0	17.19	0.05	Bottom	0	100	0	1:1.58		5	0.442	1.205	0.533	
2 506.0	39750	QPSK	Close	B	20	19.6	18.65	0.06	Bottom	0	1	0	1:2.31		5	0.538	1.245	0.670	--
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

Frequency		Mode	Form Factor	Ant.	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.																		
2680.0	41490	QPSK	Open	I	20	19.5	18.88	0.13	Rear	0	1	0	1:1.58		10	0.165	1.153	0.190	-
2506.0	39750	QPSK	Open	I	20	19.5	18.95	0.11	Rear	0	50	49	1:1.58		10	0.168	1.135	0.191	-
2680.0	41490	QPSK	Open	I	20	19.5	18.88	-0.17	Front	0	1	0	1:1.58		10	0.155	1.153	0.179	-
2506.0	39750	QPSK	Open	I	20	19.5	18.95	-0.07	Front	0	50	49	1:1.58		10	0.154	1.135	0.175	-
2680.0	41490	QPSK	Open	I	20	19.5	18.88	-0.14	Right	0	1	0	1:1.58		10	0.172	1.153	0.198	-
2506.0	39750	QPSK	Open	I	20	19.5	18.95	-0.11	Right	0	50	49	1:1.58		10	0.234	1.135	0.266	-
2680.0	41490	QPSK	Open	I	20	19.5	18.88	-0.05	Top	0	1	0	1:1.58		10	0.021	1.153	0.024	-
2506.0	39750	QPSK	Open	I	20	19.5	18.95	0.09	Top	0	50	49	1:1.58		10	0.025	1.135	0.028	-
2 506.0	39750	QPSK	Open	I	20	21.1	20.53	-0.13	Right	0	50	49	1:2.31		10	0.221	1.140	0.252	-
2680.0	41490	QPSK	Close	I	20	19.5	18.88	0.08	Rear	0	1	0	1:1.58		5	0.106	1.153	0.122	-
2506.0	39750	QPSK	Close	I	20	19.5	18.95	0.14	Rear	0	50	49	1:1.58		5	0.104	1.135	0.118	-
2680.0	41490	QPSK	Close	I	20	19.5	18.88	-0.13	Front	0	1	0	1:1.58		5	0.355	1.153	0.409	-
2506.0	39750	QPSK	Close	I	20	19.5	18.95	-0.17	Front	0	50	49	1:1.58		5	0.494	1.135	0.561	-
2680.0	41490	QPSK	Close	I	20	19.5	18.88	0.08	Right	0	1	0	1:1.58		5	0.582	1.153	0.671	C10
2506.0	39750	QPSK	Close	I	20	19.5	18.81	-0.07	Right	0	1	49	1:1.58		5	0.543	1.172	0.636	-
2549.5	40185	QPSK	Close	I	20	19.5	18.82	-0.07	Right	0	1	0	1:1.58		5	0.547	1.169	0.639	-
2593.0	40620	QPSK	Close	I	20	19.5	18.82	0.04	Right	0	1	0	1:1.58		5	0.538	1.169	0.629	-
2636.5	41055	QPSK	Close	I	20	19.5	18.73	0.06	Right	0	1	0	1:1.58		5	0.526	1.194	0.628	-
2506.0	39750	QPSK	Close	I	20	19.5	18.95	-0.04	Right	0	50	49	1:1.58		5	0.545	1.135	0.619	-
2549.5	40185	QPSK	Close	I	20	19.5	18.83	-0.06	Right	0	50	0	1:1.58		5	0.549	1.167	0.641	-
2593.0	40620	QPSK	Close	I	20	19.5	18.81	-0.01	Right	0	50	0	1:1.58		5	0.539	1.172	0.632	-
2636.5	41055	QPSK	Close	I	20	19.5	18.78	-0.12	Right	0	50	25	1:1.58		5	0.523	1.180	0.617	-
2680.0	41490	QPSK	Close	I	20	19.5	18.83	-0.09	Right	0	50	0	1:1.58		5	0.526	1.167	0.614	-
2506.0	39750	QPSK	Close	I	20	19.5	18.86	-0.07	Right	0	100	0	1:1.58		5	0.558	1.159	0.647	-
2680.0	41490	QPSK	Close	I	20	19.5	18.88	0.03	Top	0	1	0	1:1.58		5	0.027	1.153	0.031	-
2506.0	39750	QPSK	Close	I	20	19.5	18.95	-0.09	Top	0	50	49	1:1.58		5	0.010	1.135	0.011	-
2680.0	41490	QPSK	Close	I	20	19.5	18.88	-0.05	Bottom	0	1	0	1:1.58		5	0.072	1.153	0.083	-
2506.0	39750	QPSK	Close	I	20	19.5	18.95	-0.05	Bottom	0	50	49	1:1.58		5	0.072	1.135	0.082	-
2680.0	41490	QPSK	Close	I	20	21.1	20.50	0.18	Right	0	1	0	1:2.31		5	0.518	1.148	0.595	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak (Uncontrolled Exposure/ General Population)										Body 1.6 W/kg (Averaged over 1 gram)									

LTE FDD Band 66 (AWS) Hotspot SAR

Frequency		Mode	Ant.	Form Factor	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.																		
1770	132572	QPSK	A	Open	20	17.8	16.81	-0.12	Rear	0	1	0	1:1		10	0.443	1.256	0.556	-
1770	132572	QPSK	A	Open	20	17.8	16.33	-0.08	Rear	0	50	25	1:1		10	0.437	1.403	0.613	-
1770	132572	QPSK	A	Open	20	17.8	16.81	0.04	Front	0	1	0	1:1		10	0.289	1.256	0.363	-
1770	132572	QPSK	A	Open	20	17.8	16.33	-0.19	Front	0	50	25	1:1		10	0.288	1.403	0.404	-
1770	132572	QPSK	A	Open	20	17.8	16.81	0.05	Left	0	1	0	1:1		10	0.060	1.256	0.075	-
1770	132572	QPSK	A	Open	20	17.8	16.33	0.12	Left	0	50	25	1:1		10	0.055	1.403	0.077	-
1770	132572	QPSK	A	Open	20	17.8	16.81	0.00	Right	0	1	0	1:1		10	0.043	1.256	0.054	-
1770	132572	QPSK	A	Open	20	17.8	16.33	-0.05	Right	0	50	25	1:1		10	0.041	1.403	0.058	-
1770	132572	QPSK	A	Open	20	17.8	16.81	-0.01	Bottom	0	1	0	1:1		10	0.687	1.256	0.863	-
1720	132072	QPSK	A	Open	20	17.8	16.35	-0.01	Bottom	0	1	99	1:1		10	0.565	1.396	0.789	-
1745	132322	QPSK	A	Open	20	17.8	16.30	-0.01	Bottom	0	1	0	1:1		10	0.575	1.413	0.812	-
1770	132572	QPSK	A	Open	20	17.8	16.33	-0.02	Bottom	0	50	25	1:1		10	0.674	1.403	0.946	-
1720	132072	QPSK	A	Open	20	17.8	16.28	-0.02	Bottom	0	50	25	1:1		10	0.541	1.419	0.768	-
1745	132322	QPSK	A	Open	20	17.8	16.32	0.00	Bottom	0	50	49	1:1		10	0.605	1.406	0.851	-
1770	132572	QPSK	A	Open	20	17.8	16.34	-0.01	Bottom	0	100	0	1:1		10	0.653	1.400	0.914	-
1770	132572	QPSK	A	Close	20	17.8	16.81	0.02	Rear	0	1	0	1:1		5	0.418	1.256	0.525	-
1770	132572	QPSK	A	Close	20	17.8	16.33	-0.09	Rear	0	50	25	1:1		5	0.534	1.403	0.749	-
1770	132572	QPSK	A	Close	20	17.8	16.81	0.07	Front	0	1	0	1:1		5	0.106	1.256	0.133	-
1770	132572	QPSK	A	Close	20	17.8	16.33	-0.05	Front	0	50	25	1:1		5	0.064	1.403	0.090	-
1770	132572	QPSK	A	Close	20	17.8	16.81	0.00	Left	0	1	0	1:1		5	0.101	1.256	0.127	-
1770	132572	QPSK	A	Close	20	17.8	16.33	-0.06	Left	0	50	25	1:1		5	0.069	1.403	0.097	-
1770	132572	QPSK	A	Close	20	17.8	16.81	-0.05	Right	0	1	0	1:1		5	0.019	1.256	0.024	-
1770	132572	QPSK	A	Close	20	17.8	16.33	0.08	Right	0	50	25	1:1		5	0.008	1.403	0.011	-
1770	132572	QPSK	A	Close	20	17.8	16.81	-0.04	Bottom	0	1	0	1:1		5	0.669	1.256	0.840	-
1720	132072	QPSK	A	Close	20	17.8	16.35	-0.03	Bottom	0	1	99	1:1		5	0.568	1.396	0.793	-
1745	132322	QPSK	A	Close	20	17.8	16.30	-0.13	Bottom	0	1	0	1:1		5	0.558	1.413	0.788	-
1770	132572	QPSK	A	Close	20	17.8	16.33	0.08	Bottom	0	50	25	1:1		5	0.597	1.403	0.838	-
1720	132072	QPSK	A	Close	20	17.8	16.28	-0.05	Bottom	0	50	25	1:1		5	0.586	1.419	0.832	-
1745	132322	QPSK	A	Close	20	17.8	16.32	0.07	Bottom	0	50	49	1:1		5	0.512	1.406	0.720	-
1770	132572	QPSK	A	Close	20	17.8	16.34	-0.06	Bottom	0	100	0	1:1		5	0.595	1.400	0.833	-
1720	132072	QPSK	I	Open	20	17.5	16.56	-0.11	Rear	0	1	49	1:1		10	0.229	1.242	0.284	-
1720	132072	QPSK	I	Open	20	17.5	16.40	-0.07	Rear	0	50	49	1:1		10	0.227	1.288	0.292	-
1720	132072	QPSK	I	Open	20	17.5	16.56	-0.02	Front	0	1	49	1:1		10	0.224	1.242	0.278	-
1720	132072	QPSK	I	Open	20	17.5	16.40	-0.04	Front	0	50	49	1:1		10	0.223	1.288	0.287	-
1720	132072	QPSK	I	Open	20	17.5	16.56	-0.08	Right	0	1	49	1:1		10	0.580	1.242	0.720	-
1720	132072	QPSK	I	Open	20	17.5	16.40	0.12	Right	0	50	49	1:1		10	0.660	1.288	0.850	-
1745	132322	QPSK	I	Open	20	17.5	16.38	-0.02	Right	0	50	49	1:1		10	0.706	1.294	0.914	-
1770	132572	QPSK	I	Open	20	17.5	16.39	-0.10	Right	0	50	49	1:1		10	0.766	1.291	0.989	-
1720	132072	QPSK	I	Open	20	17.5	16.33	-0.09	Right	0	100	0	1:1		10	0.633	1.309	0.829	-
1720	132072	QPSK	I	Open	20	17.5	16.56	-0.04	Top	0	1	49	1:1		10	0.028	1.242	0.035	-
1720	132072	QPSK	I	Open	20	17.5	16.40	0.08	Top	0	50	49	1:1		10	0.030	1.288	0.039	-
1720	132072	QPSK	I	Close	20	17.5	16.56	-0.04	Rear	0	1	49	1:1		5	0.019	1.242	0.024	-
1720	132072	QPSK	I	Close	20	17.5	16.41	-0.08	Rear	0	50	49	1:1		5	0.021	1.285	0.027	-
1720	132072	QPSK	I	Close	20	17.5	16.56	-0.01	Front	0	1	49	1:1		5	0.430	1.242	0.534	-
1720	132072	QPSK	I	Close	20	17.5	16.41	-0.04	Front	0	50	49	1:1		5	0.451	1.285	0.580	-
1720	132072	QPSK	I	Close	20	17.5	16.56	-0.02	Right	0	1	49	1:1		5	0.801	1.242	0.995	-
1745	132322	QPSK	I	Close	20	17.5	16.38	-0.06	Right	0	1	99	1:1		5	0.893	1.294	1.156	-
1770	132572	QPSK	I	Close	20	17.5	16.49	-0.02	Right	0	1	99	1:1		5	0.940	1.262	1.186	-
1720	132072	QPSK	I	Close	20	17.5	16.41	-0.03	Right	0	50	49	1:1		5	0.603	1.285	0.775	-
1720	132072	QPSK	I	Close	20	17.5	16.33	-0.05	Right	0	100	0	1:1		5	0.575	1.309	0.753	-
1720	132072	QPSK	I	Close	20	17.5	16.56	-0.06	Top	0	1	49	1:1		5	0.010	1.242	0.012	-
1720	132072	QPSK	I	Close	20	17.5	16.41	-0.10	Top	0	50	49	1:1		5	0.010	1.285	0.013	-
1720	132072	QPSK	I	Close	20	17.5	16.56	-0.18	Bottom	0	1	49	1:1		5	0.025	1.242	0.031	-
1720	132072	QPSK	I	Close	20	17.5	16.41	-0.11	Bottom	0	50	49	1:1		5	0.026	1.285	0.033	-
1770	132572	QPSK	I	Close	20	17.5	16.49	0.00	Right	0	1	99	1:1		5	0.946	1.262	1.194	C11 #
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 FDD Band n5 Body Hotspot SAR

Frequency		Mode	Ant.	Form Factor	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	DFT-s OFDM QPSK	A	Open	20	23.5	22.69	-0.02	Rear	0	1	53	1:1		10	0.341	1.205	0.411	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.61	0.00	Rear	0	50	28	1:1		10	0.348	1.227	0.427	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.69	-0.16	Front	0	1	53	1:1		10	0.265	1.205	0.319	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.61	-0.03	Front	0	50	28	1:1		10	0.271	1.227	0.333	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.69	0.01	Left	0	1	53	1:1		10	0.166	1.205	0.200	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.61	0.04	Left	0	50	28	1:1		10	0.169	1.227	0.207	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.69	0.01	Right	0	1	53	1:1		10	0.238	1.205	0.287	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.61	-0.03	Right	0	50	28	1:1		10	0.239	1.227	0.293	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.69	0.08	Bottom	0	1	53	1:1		10	0.122	1.205	0.147	-
836.5	167300	DFT-s OFDM QPSK	A	Open	20	23.5	22.61	0.11	Bottom	0	50	28	1:1		10	0.103	1.227	0.126	-
836.5	167300	CP QPSK	A	Open	20	23.5	22.37	0.06	Rear	0	1	1	1:1		10	0.340	1.297	0.441	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.69	-0.12	Rear	0	1	53	1:1		5	0.507	1.205	0.611	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.61	-0.17	Rear	0	50	28	1:1		5	0.514	1.227	0.631	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.69	-0.07	Front	0	1	53	1:1		5	0.287	1.205	0.346	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.61	-0.04	Front	0	50	28	1:1		5	0.285	1.227	0.350	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.69	0.00	Left	0	1	53	1:1		5	0.265	1.205	0.319	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.61	-0.02	Left	0	50	28	1:1		5	0.266	1.227	0.326	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.69	-0.05	Right	0	1	53	1:1		5	0.136	1.205	0.164	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.61	-0.07	Right	0	50	28	1:1		5	0.141	1.227	0.173	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.69	0.18	Bottom	0	1	53	1:1		5	0.238	1.205	0.287	-
836.5	167300	DFT-s OFDM QPSK	A	Close	20	23.5	22.61	0.13	Bottom	0	50	28	1:1		5	0.243	1.227	0.298	-
836.5	167300	CP QPSK	A	Close	20	23.5	22.37	0.01	Rear	0	1	1	1:1		5	0.510	1.297	0.661	C12
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram									

NR FDD Band n25 Body Hotspot SAR

Frequency		Mode	Ant.	Form Factor	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.																		
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.32	-0.04	Rear	0	1	108	1:1		10	0.300	1.253	0.376	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.38	-0.01	Rear	0	108	54	1:1		10	0.313	1.236	0.387	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.32	-0.05	Front	0	1	108	1:1		10	0.213	1.253	0.267	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.38	-0.02	Front	0	108	54	1:1		10	0.211	1.236	0.261	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.32	-0.07	Left	0	1	108	1:1		10	0.056	1.253	0.070	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.38	-0.07	Left	0	108	54	1:1		10	0.056	1.236	0.069	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.32	-0.04	Right	0	1	108	1:1		10	0.017	1.253	0.021	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.38	-0.07	Right	0	108	54	1:1		10	0.017	1.236	0.021	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.32	-0.06	Bottom	0	1	108	1:1		10	0.441	1.253	0.553	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	15.38	0.00	Bottom	0	108	54	1:1		10	0.452	1.236	0.559	-
1882.5	376500	CP QPSK	A	Open	40	16.3	15.36	-0.09	Bottom	0	1	1	1:1		10	0.435	1.242	0.540	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.32	-0.08	Rear	0	1	108	1:1		5	0.415	1.253	0.520	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.38	-0.01	Rear	0	108	54	1:1		5	0.429	1.236	0.530	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.32	0.00	Front	0	1	108	1:1		5	0.032	1.253	0.040	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.38	0.00	Front	0	108	54	1:1		5	0.028	1.236	0.035	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.32	-0.09	Left	0	1	108	1:1		5	0.032	1.253	0.040	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.38	-0.01	Left	0	108	54	1:1		5	0.032	1.236	0.040	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.32	-0.07	Right	0	1	108	1:1		5	0.170	1.253	0.213	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.38	-0.03	Right	0	108	54	1:1		5	0.170	1.236	0.210	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.32	-0.09	Bottom	0	1	108	1:1		5	0.734	1.253	0.920	-
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.38	-0.04	Bottom	0	108	54	1:1		5	0.754	1.236	0.932	C13
1882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	15.32	-0.04	Bottom	0	216	0	1:1		5	0.731	1.253	0.916	-
1882.5	376500	CP QPSK	A	Close	40	16.3	15.36	-0.11	Bottom	0	1	1	1:1		5	0.596	1.242	0.740	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.19	-0.05	Rear	0	1	214	1:1		10	0.126	1.205	0.152	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.08	-0.07	Rear	0	108	108	1:1		10	0.119	1.236	0.147	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.19	-0.07	Front	0	1	214	1:1		10	0.108	1.205	0.130	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.08	-0.08	Front	0	108	108	1:1		10	0.105	1.236	0.130	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.19	-0.09	Right	0	1	214	1:1		10	0.36	1.205	0.434	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.08	-0.01	Right	0	108	108	1:1		10	0.356	1.236	0.440	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.19	-0.15	Top	0	1	214	1:1		10	0.037	1.205	0.045	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.08	-0.14	Top	0	108	108	1:1		10	0.042	1.236	0.052	-
1882.5	376500	CP QPSK	I	Open	40	17.0	16.37	0.00	Right	0	1	1	1:1		10	0.368	1.156	0.425	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.19	-0.05	Rear	0	1	214	1:1		5	0.025	1.205	0.030	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.08	-0.07	Rear	0	108	108	1:1		5	0.024	1.236	0.030	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.19	0.00	Front	0	1	214	1:1		5	0.212	1.205	0.255	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.08	0.00	Front	0	108	108	1:1		5	0.212	1.236	0.262	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.19	-0.01	Right	0	1	214	1:1		5	0.661	1.205	0.797	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.08	-0.02	Right	0	108	108	1:1		5	0.659	1.236	0.815	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.08	-0.03	Right	0	216	0	1:1		5	0.665	1.236	0.822	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.19	-0.09	Top	0	1	214	1:1		5	0.01	1.205	0.012	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.08	-0.19	Top	0	108	108	1:1		5	0.01	1.236	0.012	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.19	-0.05	Bottom	0	1	214	1:1		5	0.046	1.205	0.055	-
1882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.08	0.00	Bottom	0	108	108	1:1		5	0.049	1.236	0.061	-
1882.5	376500	CP QPSK	I	Close	40	17.0	16.37	0.05	Right	0	1	1	1:1		5	0.695	1.156	0.803	-
ANSI/ IEEE C95.1 - 2005-- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram									

NR TDD Band n41 Hotspot SAR

Frequency		Mode	Ant	Form Factor	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.																		
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.06	-0.19	Rear	0	1	1	1:1		10	0.302	1.242	0.375	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	16.98	0.17	Rear	0	135	0	1:1		10	0.253	1.265	0.320	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.06	-0.10	Front	0	1	1	1:1		10	0.197	1.242	0.245	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	16.98	-0.14	Front	0	135	0	1:1		10	0.194	1.265	0.245	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.06	-0.08	Right	0	1	1	1:1		10	0.349	1.242	0.433	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	16.98	-0.09	Right	0	135	0	1:1		10	0.342	1.265	0.433	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.06	0.04	Top	0	1	1	1:1		10	0.066	1.242	0.082	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	16.98	0.02	Top	0	135	0	1:1		10	0.063	1.265	0.080	-
2 592.99	518598	CP QPSK	I	Open	100	18.0	17.22	0.00	Right	0	1	1	1:1		10	0.362	1.197	0.433	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.06	-0.16	Rear	0	1	1	1:1		5	0.139	1.242	0.173	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	16.98	0.19	Rear	0	135	0	1:1		5	0.13	1.265	0.164	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.06	0.17	Front	0	1	1	1:1		5	0.681	1.242	0.846	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	16.98	0.10	Front	0	135	0	1:1		5	0.661	1.265	0.836	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	16.96	0.09	Front	0	270	0	1:1		5	0.629	1.271	0.799	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.06	-0.16	Right	0	1	1	1:1		5	0.787	1.242	0.977	C14
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	16.98	-0.03	Right	0	135	0	1:1		5	0.697	1.265	0.882	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	16.96	-0.12	Right	0	270	0	1:1		5	0.685	1.271	0.871	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.06	-0.19	Top	0	1	1	1:1		5	0.025	1.242	0.031	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	16.98	-0.15	Top	0	135	0	1:1		5	0.025	1.265	0.032	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.06	-0.18	Bottom	0	1	1	1:1		5	0.077	1.242	0.096	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	16.98	0.14	Bottom	0	135	0	1:1		5	0.099	1.265	0.125	-
2 592.99	518598	CP QPSK	I	Close	100	18.0	17.22	-0.03	Right	0	1	1	1:1		5	0.768	1.197	0.919	-
2 592.99	518598	CW SRS #2	B	Open	100	14.5	14.11	0.00	Rear	0	-	-	1:1		10	0.159	1.094	0.174	-
2 592.99	518598	CW SRS #2	B	Open	100	14.5	14.11	0.00	Front	0	-	-	1:1		10	0.107	1.094	0.117	-
2 592.99	518598	CW SRS #2	B	Open	100	14.5	14.11	-0.14	Left	0	-	-	1:1		10	0.032	1.094	0.035	-
2 592.99	518598	CW SRS #2	B	Open	100	14.5	14.11	0.15	Bottom	0	-	-	1:1		10	0.326	1.094	0.357	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	14.11	0.00	Rear	0	-	-	1:1		5	0.290	1.094	0.317	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	14.11	0.00	Front	0	-	-	1:1		5	0.000	1.094	0.000	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	14.11	-0.12	Left	0	-	-	1:1		5	0.106	1.094	0.116	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	14.11	0.05	Bottom	0	-	-	1:1		5	0.577	1.094	0.631	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	16.06	0.14	Rear	0	-	-	1:1		10	0.116	1.107	0.128	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	16.06	0.18	Front	0	-	-	1:1		10	0.095	1.107	0.105	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	16.06	0.14	Left	0	-	-	1:1		10	0.205	1.107	0.227	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	16.06	0.12	Top	0	-	-	1:1		10	0.041	1.107	0.045	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	16.06	-0.13	Rear	0	-	-	1:1		5	0.024	1.107	0.027	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	16.06	-0.19	Front	0	-	-	1:1		5	0.242	1.107	0.268	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	16.06	-0.01	Left	0	-	-	1:1		5	0.322	1.107	0.356	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	16.06	-0.10	Bottom	0	-	-	1:1		5	0.099	1.107	0.110	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	9.84	0.00	Rear	0	-	-	1:1		10	0.024	1.306	0.031	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	9.84	0.00	Front	0	-	-	1:1		10	0.026	1.306	0.034	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	9.84	0.00	Left	0	-	-	1:1		10	0.054	1.306	0.071	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	9.84	-0.18	Bottom	0	-	-	1:1		10	0.017	1.306	0.022	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	9.84	-0.17	Rear	0	-	-	1:1		5	0.074	1.306	0.097	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	9.84	0.13	Front	0	-	-	1:1		5	0.019	1.306	0.025	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	9.84	0.19	Left				1:1		5	0.123	1.306	0.161	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	9.84	0.00	Top	0	-	-	1:1		5	0.000	1.306	0.000	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	9.84	0.00	Bottom	0	-	-	1:1		5	0.006	1.306	0.008	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram										

NR FDD Band n66 Body Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Bandwidth (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.																		
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.25	-0.12	Rear	0	1	214	1:1		10	0.494	1.274	0.629	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.16	-0.11	Rear	0	108	108	1:1		10	0.488	1.300	0.634	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.25	-0.05	Front	0	1	214	1:1		10	0.304	1.274	0.387	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.16	-0.02	Front	0	108	108	1:1		10	0.302	1.300	0.393	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.25	-0.15	Left	0	1	214	1:1		10	0.045	1.274	0.057	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.16	0.03	Left	0	108	108	1:1		10	0.05	1.300	0.065	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.25	-0.01	Right	0	1	214	1:1		10	0.034	1.274	0.043	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.16	-0.08	Right	0	108	108	1:1		10	0.031	1.300	0.040	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.25	0.01	Bottom	0	1	214	1:1		10	0.617	1.274	0.786	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.16	0.00	Bottom	0	108	108	1:1		10	0.585	1.300	0.761	-
1745	349000	CP OFDM QPSK	A	Open	40	18.3	17.02	-0.01	Bottom	0	1	1	1:1		10	0.533	1.343	0.716	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.25	-0.15	Rear	0	1	214	1:1		5	0.46	1.274	0.586	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.16	-0.07	Rear	0	108	108	1:1		5	0.451	1.300	0.586	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.25	-0.04	Front	0	1	214	1:1		5	0.091	1.274	0.116	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.16	-0.06	Front	0	108	108	1:1		5	0.117	1.300	0.152	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.25	-0.02	Left	0	1	214	1:1		5	0.093	1.274	0.118	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.16	-0.13	Left	0	108	108	1:1		5	0.093	1.300	0.121	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.25	-0.07	Right	0	1	214	1:1		5	0.10	1.274	0.127	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.16	-0.04	Right	0	108	108	1:1		5	0.11	1.300	0.143	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.25	-0.06	Bottom	0	1	214	1:1		5	0.680	1.274	0.866	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.16	-0.16	Bottom	0	108	108	1:1		5	0.663	1.300	0.862	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.00	-0.06	Bottom	0	216	0	1:1		5	0.671	1.349	0.905	-
1745	349000	CP OFDM QPSK	A	Close	40	18.3	17.02	-0.05	Bottom	0	1	1	1:1		5	0.710	1.343	0.954	C15
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.62	-0.08	Rear	0	1	214	1:1		10	0.154	1.374	0.212	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.72	-0.02	Rear	0	108	54	1:1		10	0.153	1.343	0.205	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.62	0.04	Front	0	1	214	1:1		10	0.214	1.374	0.294	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.72	-0.02	Front	0	108	54	1:1		10	0.200	1.343	0.269	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.62	-0.07	Right	0	1	214	1:1		10	0.499	1.374	0.686	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.72	-0.04	Right	0	108	54	1:1		10	0.450	1.343	0.604	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.62	0.00	Top	0	1	214	1:1		10	0.058	1.374	0.080	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.72	-0.02	Top	0	108	54	1:1		10	0.043	1.343	0.058	-
1745	349000	CP OFDM QPSK	I	Open	40	18.0	16.75	-0.02	Right	0	1	1	1:1		10	0.493	1.334	0.658	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.62	0.05	Rear	0	1	214	1:1		5	0.024	1.374	0.033	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.72	0.08	Rear	0	108	54	1:1		5	0.023	1.343	0.031	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.62	0.00	Front	0	1	214	1:1		5	0.194	1.374	0.267	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.72	0.00	Front	0	108	54	1:1		5	0.198	1.343	0.266	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.62	-0.08	Right	0	1	214	1:1		5	0.607	1.374	0.834	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.72	-0.02	Right	0	108	54	1:1		5	0.537	1.343	0.721	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.68	-0.07	Right	0	216	0	1:1		5	0.548	1.355	0.743	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.62	-0.05	Top	0	1	214	1:1		5	0.007	1.374	0.010	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.72	-0.07	Top	0	108	54	1:1		5	0.007	1.343	0.009	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.62	-0.06	Bottom	0	1	214	1:1		5	0.055	1.374	0.076	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.72	0.00	Bottom	0	108	54	1:1		5	0.043	1.343	0.058	-
1745	349000	CP OFDM QPSK	I	Close	40	18.0	16.75	-0.15	Right	0	1	1	1:1		5	0.465	1.334	0.620	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram									

NR TDD Band n77 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR (dB)	RB Size	RB Offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scale SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)							(mm)	(W/kg)		(W/kg)	
3 930.00	662000	DFT-s QPSK	F	Open	100	16.5	16.26	-0.11	Rear	0	1	271	1:1		10	0.180	1.057	0.190	-
3 750.00	650000	DFT-s QPSK	F	Open	100	16.5	15.94	-0.11	Rear	0	135	138	1:1		10	0.247	1.138	0.281	-
3 930.00	662000	DFT-s QPSK	F	Open	100	16.5	16.26	0.00	Front	0	1	271	1:1		10	0.065	1.057	0.069	-
3 750.00	650000	DFT-s QPSK	F	Open	100	16.5	15.94	0.00	Front	0	135	138	1:1		10	0.117	1.138	0.133	-
3 930.00	662000	DFT-s QPSK	F	Open	100	16.5	16.26	0.11	Left	0	1	271	1:1		10	0.186	1.057	0.197	-
3 750.00	650000	DFT-s QPSK	F	Open	100	16.5	15.94	0.16	Left	0	135	138	1:1		10	0.286	1.138	0.325	-
3 930.00	662000	DFT-s QPSK	F	Open	100	16.5	16.26	0.12	Top	0	1	271	1:1		10	0.157	1.057	0.166	-
3 750.00	650000	DFT-s QPSK	F	Open	100	16.5	15.94	-0.08	Top	0	135	138	1:1		10	0.163	1.138	0.185	-
3 750.00	650000	CP QPSK	F	Open	100	16.5	16.00	0.01	Left	0	1	1	1:1		10	0.318	1.122	0.357	-
3 500.01	633334	DFT-s QPSK	F	Open	100	16.5	15.67	0.05	Left	0	135	0	1:1		10	0.237	1.211	0.287	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	16.26	0.00	Rear	0	1	271	1:1		5	0.026	1.057	0.027	-
3 750.00	650000	DFT-s QPSK	F	Close	100	16.5	15.94	0.00	Rear	0	135	138	1:1		5	0.114	1.138	0.130	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	16.26	-0.08	Front	0	1	271	1:1		5	0.612	1.057	0.647	-
3 750.00	650000	DFT-s QPSK	F	Close	100	16.5	15.95	-0.17	Front	0	1	271	1:1		5	0.727	1.135	0.825	-
3 750.00	650000	DFT-s QPSK	F	Close	100	16.5	15.94	-0.12	Front	0	135	138	1:1		5	0.690	1.138	0.785	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	15.86	0.17	Front	0	135	69	1:1		5	0.743	1.159	0.861	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	15.86	0.14	Front	0	270	0	1:1		5	0.841	1.159	0.975	C16
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	16.26	-0.15	Left	0	1	271	1:1		5	0.860	1.057	0.909	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	16.26	-0.12	Left	0	1	271	1:1		5	0.891	1.057	0.942	#
3 750.00	650000	DFT-s QPSK	F	Close	100	16.5	15.95	-0.00	Left	0	1	271	1:1		5	0.765	1.135	0.868	-
3 750.00	650000	DFT-s QPSK	F	Close	100	16.5	15.94	0.11	Left	0	135	138	1:1		5	0.798	1.138	0.908	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	15.86	-0.15	Left	0	135	69	1:1		5	0.576	1.159	0.668	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	15.86	0.17	Left	0	270	0	1:1		5	0.804	1.159	0.932	-
3 930.00	662000	DFT-s QPSK	F	Close	100	16.5	16.26	-0.01	Bottom	0	1	271	1:1		5	0.242	1.057	0.256	-
3 750.00	650000	DFT-s QPSK	F	Close	100	16.5	15.94	-0.12	Bottom	0	135	138	1:1		5	0.238	1.138	0.271	-
3 750.00	650000	CP QPSK	F	Close	100	16.5	16.00	0.12	Left	0	1	1	1:1		5	0.852	1.122	0.956	-
3 500.01	633334	DFT-s QPSK	F	Close	100	16.5	15.67	0.01	Left	0	135	0	1:1		5	0.501	1.211	0.607	-
3 930.00	662000	CW SRS #2	I	Open	100	16.5	16.48	0.15	Rear	0	-	-	1:1		10	0.060	1.005	0.060	-
3 930.00	662000	CW SRS #2	I	Open	100	16.5	16.48	0.00	Front	0	-	-	1:1		10	0.039	1.005	0.039	-
3 930.00	662000	CW SRS #2	I	Open	100	16.5	16.48	-0.01	Right	0	-	-	1:1		10	0.113	1.005	0.114	-
3 930.00	662000	CW SRS #2	I	Open	100	16.5	16.48	0.00	Top	0	-	-	1:1		10	0.002	1.005	0.002	-
3 500.01	633334	CW SRS #2	I	Open	100	16.5	15.72	-0.10	Right	0	-	-	1:1		10	0.286	1.197	0.342	-
3 930.00	662000	CW SRS #2	I	Close	100	16.5	16.48	0.00	Rear	0	-	-	1:1		5	0.014	1.005	0.014	-
3 930.00	662000	CW SRS #2	I	Close	100	16.5	16.48	-0.10	Front	0	-	-	1:1		5	0.308	1.005	0.310	-
3 930.00	662000	CW SRS #2	I	Close	100	16.5	16.48	-0.16	Right	0	-	-	1:1		5	0.544	1.005	0.547	-
3 750.00	650000	CW SRS #2	I	Close	100	16.5	16.48	0.17	Right	0	-	-	1:1		5	0.391	1.005	0.393	-
3 930.00	662000	CW SRS #2	I	Close	100	16.5	16.48	-0.05	Top	0	-	-	1:1		5	0.021	1.005	0.021	-
3 930.00	662000	CW SRS #2	I	Close	100	16.5	16.48	0.00	Bottom	0	-	-	1:1		5	0.004	1.005	0.004	-
3 500.01	633334	CW SRS #2	I	Close	100	16.5	15.72	0.00	Right	0	-	-	1:1		5	0.782	1.197	0.936	-
3 930.00	662000	CW SRS #3	E	Open	100	16.5	16.47	-0.16	Rear	0	-	-	1:1		10	0.052	1.007	0.052	-
3 930.00	662000	CW SRS #3	E	Open	100	16.5	16.47	-0.12	Front	0	-	-	1:1		10	0.083	1.007	0.084	-
3 930.00	662000	CW SRS #3	E	Open	100	16.5	16.47	0.17	Left	0	-	-	1:1		10	0.162	1.007	0.163	-
3 930.00	662000	CW SRS #3	E	Open	100	16.5	16.47	0.13	Top	0	-	-	1:1		10	0.004	1.007	0.004	-
3 500.01	633334	CW SRS #3	I	Open	100	16.5	15.86	0.16	Left	0	-	-	1:1		10	0.092	1.159	0.107	-
3 930.00	662000	CW SRS #3	E	Close	100	16.5	16.47	-0.19	Rear	0	-	-	1:1		5	0.098	1.007	0.099	-
3 930.00	662000	CW SRS #3	E	Close	100	16.5	16.47	0.18	Front	0	-	-	1:1		5	0.126	1.007	0.127	-
3 930.00	662000	CW SRS #3	E	Close	100	16.5	16.47	0.12	Left	0	-	-	1:1		5	0.254	1.007	0.256	-
3 930.00	662000	CW SRS #3	E	Close	100	16.5	16.47	-0.08	Top	0	-	-	1:1		5	0.001	1.007	0.001	-
3 930.00	662000	CW SRS #3	E	Close	100	16.5	16.47	-0.12	Bottom	0	-	-	1:1		5	0.013	1.007	0.013	-
3 500.01	633334	CW SRS #3	E	Close	100	16.5	15.86	0.16	Left	0	-	-	1:1		5	0.258	1.159	0.299	-
3 930.00	662000	CW SRS #4	C	Open	100	10.0	8.61	0.00	Rear	0	-	-	1:1		10	0.023	1.377	0.032	-
3 930.00	662000	CW SRS #4	C	Open	100	10.0	8.61	0.00	Front	0	-	-	1:1		10	0.011	1.377	0.015	-
3 930.00	662000	CW SRS #4	C	Open	100	10.0	8.61	0.14	Left	0	-	-	1:1		10	0.067	1.377	0.092	-
3 930.00	662000	CW SRS #4	C	Open	100	10.0	8.61	0.13	Bottom	0	-	-	1:1		10	0.011	1.377	0.015	-
3 500.01	633334	CW SRS #4	C	Open	100	10.0	8.38	-0.14	Left	0	-	-	1:1		10	0.095	1.452	0.138	-
3 930.00	662000	CW SRS #4	C	Close	100	10.0	8.61	-0.01	Rear	0	-	-	1:1		5	0.070	1.377	0.096	-
3 930.00	662000	CW SRS #4	C	Close	100	10.0	8.61	0.00	Front	0	-	-	1:1		5	0.0038	1.377	0.005	-
3 930.00	662000	CW SRS #4	C	Close	100	10.0	8.61	0.18	Left	0	-	-	1:1		5	0.157	1.377	0.216	-
3 930.00	662000	CW SRS #4	C	Close	100	10.0	8.61	0.00	Top	0	-	-	1:1		5	0.00358	1.377	0.005	-
3 930.00	662000	CW SRS #4	C	Close	100	10.0	8.61	0.00	Bottom	0	-	-	1:1		5	0.0086	1.377	0.012	-
3 500.01	633334	CW SRS #4	C	Close	100	10.0	8.38	0.13	Left	0	-	-	1:1		5	0.225	1.452	0.327	-
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 Hotspot SAR																		
Frequency		Mode	Form Factor	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	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	Open	Ant.1	20	1	19.0	17.86	-0.05	Rear	98.8	10	0.437	0.269	1.300	1.012	0.354	-
2 412	1	802.11b	Open	Ant.1	20	1	19.0	17.86	0.15	Front	98.8	10	0.379	0.231	1.300	1.012	0.304	-
2 412	1	802.11b	Open	Ant.1	20	1	19.0	17.86	0.05	Left	98.8	10	0.297	0.191	1.300	1.012	0.251	-
2 412	1	802.11b	Open	Ant.1	20	1	19.0	17.86	0.18	Top	98.8	10	0.167	0.089	1.300	1.012	0.117	-
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.86	-0.10	Rear	98.8	5	0.255	0.156	1.300	1.012	0.205	-
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.86	-0.11	Front	98.8	5	0.496	0.324	1.300	1.012	0.426	-
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.86	-0.12	Left	98.8	5	0.744	0.425	1.300	1.012	0.559	C17
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.86	-0.17	Bottom	98.8	5	0.262	0.135	1.300	1.012	0.178	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.55	-0.05	Rear	98.8	10	0.226	0.141	1.396	1.012	0.199	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.55	-0.12	Front	98.8	10	0.143	0.091	1.396	1.012	0.129	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.55	-0.01	Right	98.8	10	0.0221	0.00558	1.396	1.012	0.008	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.55	0.11	Top	98.8	10	0.0923	0.058	1.396	1.012	0.082	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.55	0.18	Rear	98.8	5	0.165	0.103	1.396	1.012	0.146	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.55	-0.08	Front	98.8	5	0.187	0.109	1.396	1.012	0.154	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.55	0.00	Right	98.8	5	0.124	0.056	1.396	1.012	0.079	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.55	0.13	Bottom	98.8	5	0.183	0.092	1.396	1.012	0.130	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

5 GHz WLAN Hotspot SAR																		
Frequency		Mode	Form Factor	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	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.																	
5 785	157	802.11a	Open	Ant.1	20	6	16.0	15.31	-0.18	Rear	94.2	10	0.543	0.146	1.172	1.062	0.182	-
5 785	157	802.11a	Open	Ant.1	20	6	16.0	15.31		Front	94.2	10	0.140		1.172	1.062		-
5 785	157	802.11a	Open	Ant.1	20	6	16.0	15.31	0.08	Left	94.2	10	0.733	0.305	1.172	1.062	0.379	-
5 785	157	802.11a	Open	Ant.1	20	6	16.0	15.31		Top	94.2	10	0.214		1.172	1.062		-
5 785	157	802.11a	Close	Ant.1	20	6	16.0	15.31		Rear	94.2	5	0.116		1.172	1.062		-
5 785	157	802.11a	Close	Ant.1	20	6	16.0	15.31	0.00	Front	94.2	5	0.85	0.221	1.172	1.062	0.275	-
5 785	157	802.11a	Close	Ant.1	20	6	16.0	15.31	-0.08	Left	94.2	5	1.01	0.368	1.172	1.062	0.458	C18
5 785	157	802.11a	Close	Ant.1	20	6	16.0	15.31		Bottom	94.2	5	0.02		1.172	1.062		-
5 785	157	802.11a	Open	Ant.2	20	6	16.0	15.11	0.19	Rear	94.2	10	0.351	0.133	1.227	1.062	0.173	-
5 785	157	802.11a	Open	Ant.2	20	6	16.0	15.11		Front	94.2	10	0.176		1.227	1.062		-
5 785	157	802.11a	Open	Ant.2	20	6	16.0	15.11		Right	94.2	10	0.139		1.227	1.062		-
5 785	157	802.11a	Open	Ant.2	20	6	16.0	15.11		Top	94.2	10	0.0863		1.227	1.062		-
5 785	157	802.11a	Close	Ant.2	20	6	16.0	15.11		Rear	94.2	5	0.117		1.227	1.062		-
5 785	157	802.11a	Close	Ant.2	20	6	16.0	15.11	0.00	Front	94.2	5	0.827	0.297	1.227	1.062	0.387	-
5 785	157	802.11a	Close	Ant.2	20	6	16.0	15.11		Right	94.2	5	0.376		1.227	1.062		-
5 785	157	802.11a	Close	Ant.2	20	6	16.0	15.11		Bottom	94.2	5	0.329		1.227	1.062		-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

DSS Tethering SAR														
Frequency		Mode	Form Factor	Ant.	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	Open	Ant.1	19.0	18.82	-0.09	Rear	10	0.169	1.042	1.010	0.178	-
2 402	0	Bluetooth DH5	Open	Ant.1	19.0	18.82	0.13	Front	10	0.189	1.042	1.010	0.199	-
2 402	0	Bluetooth DH5	Open	Ant.1	19.0	18.82	0.12	Left	10	0.266	1.042	1.010	0.280	-
2 402	0	Bluetooth DH5	Open	Ant.1	19.0	18.82	0.17	Top	10	0.064	1.042	1.010	0.067	-
2 402	0	Bluetooth DH5	Close	Ant.1	19.0	18.82	0.15	Rear	5	0.056	1.042	1.010	0.059	-
2 402	0	Bluetooth DH5	Close	Ant.1	19.0	18.82	-0.05	Front	5	0.610	1.042	1.010	0.642	C19
2 402	0	Bluetooth DH5	Close	Ant.1	19.0	18.82	0.16	Left	5	0.603	1.042	1.010	0.635	-
2 402	0	Bluetooth DH5	Close	Ant.1	19.0	18.82	0.18	Bottom	5	0.140	1.042	1.010	0.147	-
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.

13.4.1 Phablet SAR Measurement Results

UMTS Band 4 Phablet SAR _10g															
Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
1 732.4	1412	RMC	A	Open	21.0	20.21	-0.03	Rear	1:1	0		2.38	1.199	2.854	D1
1 712.4	1312	RMC	A	Open	21.0	20.08	-0.10	Rear	1:1	0		2.02	1.236	2.497	-
1 752.6	1513	RMC	A	Open	21.0	20.26	0.10	Rear	1:1	0		2.35	1.186	2.787	-
1 732.4	1412	RMC	A	Open	21.0	20.21	0.00	Front	1:1	0		1.92	1.199	2.302	-
1 712.4	1312	RMC	A	Open	21.0	20.08	0.00	Front	1:1	0		1.79	1.236	2.212	-
1 752.6	1513	RMC	A	Open	21.0	20.26	0.00	Front	1:1	0		2.08	1.186	2.467	-
1 732.4	1412	RMC	A	Open	21.0	20.21	-0.09	Left	1:1	0		0.129	1.199	0.155	-
1 732.4	1412	RMC	A	Open	21.0	20.21	0.08	Right	1:1	0		0.075	1.199	0.090	-
1 732.4	1412	RMC	A	Open	21.0	20.21	0.11	Bottom	1:1	0		1.32	1.199	1.583	-
1 732.4	1412	RMC	A	Open	21.0	20.21	0.11	Rear	1:1	0		2.32	1.199	2.782	#
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.

UMTS Band 2 Phablet SAR _10g															
Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880	9400	UMTS Band 2 RMC	A	Open	21	20.03	-0.11	Rear	1:1	0		1.61	1.250	2.013	-
1 852.4	9262	UMTS Band 2 RMC	A	Open	21	20.05	0.17	Rear	1:1	0		1.56	1.245	1.942	-
1 907.6	9538	UMTS Band 2 RMC	A	Open	21	20.45	0.13	Rear	1:1	0		1.96	1.135	2.225	D2
1 880	9400	UMTS Band 2 RMC	A	Open	21	20.03	0.00	Front	1:1	0		1.54	1.250	1.925	-
1 880	9400	UMTS Band 2 RMC	A	Open	21	20.03	0.03	Left	1:1	0		0.397	1.250	0.496	-
1 880	9400	UMTS Band 2 RMC	A	Open	21	20.03	0.06	Right	1:1	0		0.164	1.250	0.205	-
1 880	9400	UMTS Band 2 RMC	A	Open	21	20.03	0.04	Bottom	1:1	0		0.83	1.250	1.038	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram							

LTE FDD Band 25 (PCS) Phablet SAR_10g

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 905	26590	QPSK	A	Open	20	21.3	20.66	-0.17	Rear	0	1	99	1:1		0	1.890	1.159	2.191	-
1 860	26140	QPSK	A	Open	20	21.3	20.25	-0.08	Rear	0	1	0	1:1		0	1.730	1.274	2.204	-
1 882.5	26365	QPSK	A	Open	20	21.3	20.34	-0.06	Rear	0	1	0	1:1		0	1.760	1.247	2.195	-
1 905	26590	QPSK	A	Open	20	21.3	20.33	0.07	Rear	0	50	49	1:1		0	2.040	1.250	2.550	D3
1 860	26140	QPSK	A	Open	20	21.3	20.14	-0.03	Rear	0	50	25	1:1		0	1.610	1.306	2.103	-
1 882.5	26365	QPSK	A	Open	20	21.3	20.15	0.02	Rear	0	50	25	1:1		0	1.680	1.303	2.189	-
1 905	26590	QPSK	A	Open	20	21.3	20.31	-0.01	Rear	0	100	0	1:1		0	2.010	1.256	2.525	-
1 905	26590	QPSK	A	Open	20	21.3	20.66	-0.15	Front	0	1	99	1:1		0	0.615	1.159	0.713	-
1 905	26590	QPSK	A	Open	20	21.3	20.33	-0.07	Front	0	50	49	1:1		0	0.569	1.250	0.711	-
1 905	26590	QPSK	A	Open	20	21.0	20.66	-0.07	Left	0	1	99	1:1		0	0.258	1.081	0.279	-
1 905	26590	QPSK	A	Open	20	21.3	20.33	-0.09	Left	0	50	49	1:1		0	0.250	1.250	0.313	-
1 905	26590	QPSK	A	Open	20	21.3	20.66	0.07	Right	0	1	99	1:1		0	0.200	1.159	0.232	-
1 905	26590	QPSK	A	Open	20	21.3	20.33	-0.06	Right	0	50	49	1:1		0	0.198	1.250	0.248	-
1 905	26590	QPSK	A	Open	20	21.3	20.66	-0.03	Bottom	0	1	99	1:1		0	1.320	1.159	1.530	-
1 905	26590	QPSK	A	Open	20	21.3	20.33	0.01	Bottom	0	50	49	1:1		0	1.310	1.250	1.638	-
1 905	26590	QPSK	A	Open	20	21.3	20.33	-0.03	Rear	0	50	49	1:1		0	2.040	1.250	2.550	#
1 905	26590	QPSK	I	Open	20	21.5	20.72	-0.06	Rear	0	1	49	1:1		0	1.420	1.197	1.700	-
1 882.5	26365	QPSK	I	Open	20	21.5	20.72	0.13	Rear	0	50	49	1:1		0	1.210	1.197	1.448	-
1 905	26590	QPSK	I	Open	20	21.5	20.72	0.07	Front	0	1	49	1:1		0	1.210	1.197	1.448	-
1 882.5	26365	QPSK	I	Open	20	21.5	20.72	0.02	Front	0	50	49	1:1		0	1.160	1.197	1.389	-
1 905	26590	QPSK	I	Open	20	21.5	20.72	0.06	Right	0	1	49	1:1		0	1.830	1.197	2.191	-
1 860	26140	QPSK	I	Open	20	21.5	20.59	0.01	Right	0	1	99	1:1		0	1.810	1.233	2.232	-
1 882.5	26365	QPSK	I	Open	20	21.5	20.67	-0.01	Right	0	1	0	1:1		0	1.840	1.211	2.228	-
1 882.5	26365	QPSK	I	Open	20	21.5	20.72	-0.03	Right	0	50	49	1:1		0	1.820	1.197	2.179	-
1 860	26140	QPSK	I	Open	20	21.5	20.70	0.00	Right	0	50	25	1:1		0	1.870	1.202	2.248	-
1 905	26590	QPSK	I	Open	20	21.5	20.71	-0.03	Right	0	50	25	1:1		0	1.970	1.199	2.362	-
1 905	26590	QPSK	I	Open	20	21.5	20.81	-0.03	Right	0	100	0	1:1		0	1.970	1.172	2.309	-
1 905	26590	QPSK	I	Open	20	21.5	20.72	-0.06	Top	0	1	49	1:1		0	0.119	1.197	0.142	-
1 882.5	26365	QPSK	I	Open	20	21.5	20.72	-0.03	Top	0	50	49	1:1		0	0.115	1.197	0.138	-
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 FDD Band 66 (AWS) Phablet SAR_10g

Frequency		Mode	Ant.	Form Factor	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)	
1770	132572	QPSK	A	Open	20	20.8	19.71	-0.03	Rear	0	1	49	1:1		0	1.700	1.285	2.185	-
1720	132072	QPSK	A	Open	20	20.8	19.24	-0.14	Rear	0	1	99	1:1		0	1.750	1.432	2.506	-
1745	132322	QPSK	A	Open	20	20.8	19.38	-0.06	Rear	0	1	0	1:1		0	1.990	1.387	2.760	-
1745	132322	QPSK	A	Open	20	20.8	19.43	0.14	Rear	0	50	25	1:1		0	1.720	1.371	2.358	-
1720	132072	QPSK	A	Open	20	20.8	19.19	-0.05	Rear	0	50	49	1:1		0	1.780	1.449	2.579	-
1770	132572	QPSK	A	Open	20	20.8	19.40	-0.01	Rear	0	50	0	1:1		0	1.900	1.380	2.622	-
1770	132572	QPSK	A	Open	20	20.8	19.39	-0.07	Rear	0	100	0	1:1		0	1.860	1.384	2.574	-
1770	132572	QPSK	A	Open	20	20.8	19.71	0.09	Front	0	1	49	1:1		0	1.100	1.285	1.414	-
1745	132322	QPSK	A	Open	20	20.8	19.43	0.13	Front	0	50	25	1:1		0	1.130	1.371	1.549	-
1770	132572	QPSK	A	Open	20	20.8	19.71	-0.01	Left	0	1	49	1:1		0	0.223	1.285	0.287	-
1745	132322	QPSK	A	Open	20	20.8	19.43	-0.15	Left	0	50	25	1:1		0	0.228	1.371	0.313	-
1770	132572	QPSK	A	Open	20	20.8	19.71	-0.14	Right	0	1	49	1:1		0	0.133	1.285	0.171	-
1745	132322	QPSK	A	Open	20	20.8	19.43	0.15	Right	0	50	25	1:1		0	0.123	1.371	0.169	-
1770	132572	QPSK	A	Open	20	20.8	19.71	-0.04	Bottom	0	1	49	1:1		0	1.350	1.285	1.735	-
1745	132322	QPSK	A	Open	20	20.8	19.43	-0.01	Bottom	0	50	25	1:1		0	1.420	1.371	1.947	-
1745	132322	QPSK	I	Open	20	21.5	20.93	-0.01	Rear	0	1	49	1:1		0	1.650	1.140	1.881	-
1720	132072	QPSK	I	Open	20	21.5	20.64	-0.08	Rear	0	50	49	1:1		0	1.500	1.219	1.829	-
1745	132322	QPSK	I	Open	20	21.5	20.93	0.09	Front	0	1	49	1:1		0	1.630	1.140	1.858	-
1720	132072	QPSK	I	Open	20	21.5	20.64	0.06	Front	0	50	49	1:1		0	1.550	1.219	1.889	-
1745	132322	QPSK	I	Open	20	21.5	20.93	0.03	Right	0	1	49	1:1		0	2.010	1.140	2.291	-
1720	132072	QPSK	I	Open	20	21.5	20.64	0.00	Right	0	1	99	1:1		0	1.970	1.219	2.401	-
1770	132572	QPSK	I	Open	20	21.5	20.70	-0.02	Right	0	1	99	1:1		0	2.130	1.202	2.560	-
1720	132072	QPSK	I	Open	20	21.5	20.64	0.00	Right	0	50	49	1:1		0	2.220	1.219	2.706	-
1745	132322	QPSK	I	Open	20	21.5	20.57	-0.05	Right	0	50	49	1:1		0	2.200	1.239	2.726	-
1720	132572	QPSK	I	Open	20	21.5	20.60	0.00	Right	0	50	49	1:1		0	2.160	1.230	2.657	-
1720	132072	QPSK	I	Open	20	21.5	20.58	0.00	Right	0	100	0	1:1		0	2.240	1.236	2.769	-
1745	132322	QPSK	I	Open	20	21.5	20.93	-0.06	Top	0	1	49	1:1		0	0.128	1.140	0.146	-
1720	132072	QPSK	I	Open	20	21.5	20.64	-0.02	Top	0	50	49	1:1		0	0.123	1.219	0.150	-
1720	132072	QPSK	I	Open	20	21.5	20.58	0.00	Right	0	100	0	1:1		0	2.250	1.236	2.781	D4#
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.

NR FDD Band n25 Phablet SAR_10g

Frequency		Mode	Ant.	Form Factor	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)	
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.52	0.12	Rear	0	1	214	1:1		0	1.11	1.197	1.329	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	-0.05	Rear	0	108	0	1:1		0	1.34	1.194	1.600	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.52	0.17	Front	0	1	214	1:1		0	0.318	1.197	0.381	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	0.11	Front	0	108	0	1:1		0	0.385	1.194	0.460	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.52	0.06	Left	0	1	214	1:1		0	0.459	1.197	0.549	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	-0.05	Left	0	108	0	1:1		0	0.456	1.194	0.544	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.52	0.12	Right	0	1	214	1:1		0	0.142	1.197	0.170	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	-0.04	Right	0	108	0	1:1		0	0.149	1.194	0.178	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.52	0.00	Bottom	0	1	214	1:1		0	0.888	1.197	1.063	-
1882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.53	0.03	Bottom	0	108	0	1:1		0	1.04	1.194	1.242	-
1882.5	376500	CP QPSK	A	Open	40	21.3	20.54	-0.02	Rear	0	1	1	1:1		0	1.85	1.191	2.203	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.97	0.15	Rear	0	1	1	1:1		0	1.6	1.268	2.029	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.99	-0.06	Rear	0	108	54	1:1		0	1.6	1.262	2.019	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	21.02	-0.11	Rear	0	216	0	1:1		0	1.61	1.253	2.017	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.97	-0.08	Front	0	1	1	1:1		0	1.34	1.268	1.699	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.99	0.16	Front	0	108	54	1:1		0	1.37	1.262	1.729	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.97	-0.02	Right	0	1	1	1:1		0	2.02	1.268	2.561	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.99	0.00	Right	0	108	54	1:1		0	2.04	1.262	2.574	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	21.02	0.00	Right	0	216	0	1:1		0	2.08	1.253	2.606	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.97	0.07	Top	0	1	1	1:1		0	0.128	1.268	0.162	-
1882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.99	0.04	Top	0	108	54	1:1		0	0.129	1.262	0.163	-
1882.5	376500	CP QPSK	I	Open	40	22.0	21.09	-0.04	Right	0	1	1	1:1		0	2.38	1.233	2.935	D5
1882.5	376500	CP QPSK	I	Open	40	22.0	21.09	0.11	Right	0	1	1	1:1		0	2.36	1.233	2.910	#
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.

NR FDD Band n66 Phablet SAR_10g

Frequency		Mode	Ant.	Form Factor	Bandwidth (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.																		
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	-0.10	Rear	0	1	214	1:1		0	1.64	1.262	2.070	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.23	-0.02	Rear	0	108	108	1:1		0	1.72	1.279	2.200	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.14	0.04	Rear	0	216	0	1:1		0	1.79	1.306	2.338	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	0.00	Front	0	1	214	1:1		0	0.923	1.262	1.165	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.23	0.00	Front	0	108	108	1:1		0	0.927	1.279	1.186	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	-0.07	Left	0	1	214	1:1		0	0.176	1.262	0.222	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.23	0.00	Left	0	108	108	1:1		0	0.184	1.279	0.235	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	-0.19	Right	0	1	214	1:1		0	0.156	1.262	0.197	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.23	0.03	Right	0	108	108	1:1		0	0.157	1.279	0.201	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.29	-0.06	Bottom	0	1	214			0	1.27	1.262	1.603	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.23	-0.09	Bottom	0	108	108	1:1		0	1.32	1.279	1.688	-
1745	349000	CP OFDM QPSK	A	Open	40	21.3	20.18	-0.02	Rear	0	1	1	1:1		0	1.79	1.294	2.316	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.50	-0.15	Rear	0	1	214	1:1		0	1.78	1.259	2.241	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.58	-0.04	Rear	0	108	108	1:1		0	1.70	1.236	2.101	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.52	0.00	Rear	0	216	0	1:1		0	1.72	1.253	2.155	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.50	-0.11	Front	0	1	214	1:1		0	1.47	1.259	1.851	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.58	-0.15	Front	0	108	108	1:1		0	1.44	1.236	1.780	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.50	-0.04	Right	0	1	214	1:1		0	2.14	1.259	2.694	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.58	-0.02	Right	0	108	108	1:1		0	2.04	1.236	2.521	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.52	-0.02	Right	0	216	0	1:1		0	2.17	1.253	2.719	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.50	-0.07	Top	0	1	214	1:1		0	0.143	1.259	0.180	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	21.5	20.58	0.01	Top	0	108	108	1:1		0	0.136	1.236	0.168	-
1745	349000	CP OFDM QPSK	I	Open	40	21.5	20.60	0.02	Right	0	1	1	1:1		0	2.32	1.230	2.854	-
1745	349000	CP OFDM QPSK	I	Open	40	21.5	20.60	-0.09	Right	0	1	1	1:1		0	2.35	1.230	2.891	D6#
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.

DSS Phablet SAR_10g

Frequency		Mode	Form Factor	Ant.	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.													
2441	39	Bluetooth DH5	Open	Ant.2	18.0	17.72	0.00	Rear	0	0.193	1.067	1.010	0.208	-
2441	39	Bluetooth DH5	Open	Ant.2	18.0	17.72	0.00	Front	0	0.380	1.067	1.010	0.410	-
2441	39	Bluetooth DH5	Open	Ant.2	18.0	17.72	0.17	Right	0	0.067	1.067	1.010	0.072	-
2441	39	Bluetooth DH5	Open	Ant.2	18.0	17.72	0.14	Top	0	0.469	1.067	1.010	0.505	D7
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	Form Factor	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	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	Open	Ant.1	20	6	16.0	14.64	0.00	Rear	94.2	0	3.44	0.377	1.368	1.062	0.547	-
5 300	60	802.11a	Open	Ant.1	20	6	16.0	14.64		Front	94.2	0	3.29		1.368	1.062		-
5 300	60	802.11a	Open	Ant.1	20	6	16.0	14.64	0.12	Left	94.2	0	12.9	1.04	1.368	1.062	1.510	D8
5 300	60	802.11a	Open	Ant.1	20	6	16.0	14.64		Top	94.2	0	1.71		1.368	1.062		-
5 620	124	802.11a	Open	Ant.1	20	6	16.0	15.17	0.00	Rear	94.2	0	3.4	0.281	1.211	1.062	0.361	-
5 620	124	802.11a	Open	Ant.1	20	6	16.0	15.17		Front	94.2	0	4.15		1.211	1.062		-
5 620	124	802.11a	Open	Ant.1	20	6	16.0	15.17	0.15	Left	94.2	0	11.2	0.846	1.211	1.062	1.088	-
5 620	124	802.11a	Open	Ant.1	20	6	16.0	15.17		Top	94.2	0	1.21		1.211	1.062		-
5 865	173	802.11a	Open	Ant.1	20	6	16.0	15.49	0.00	Rear	94.2	0	4.16	0.322	1.125	1.062	0.385	-
5 865	173	802.11a	Open	Ant.1	20	6	16.0	15.49		Front	94.2	0	3.75		1.125	1.062		-
5 865	173	802.11a	Open	Ant.1	20	6	16.0	15.49	0.17	Left	94.2	0	16.1	1.05	1.125	1.062	1.254	-
5 865	173	802.11a	Open	Ant.1	20	6	16.0	15.49		Top	94.2	0	1.45		1.125	1.062		-
5 300	60	802.11a	Open	Ant.2	20	6	16.0	15.09		Rear	94.2	0	2.31		1.233	1.062		-
5 300	60	802.11a	Open	Ant.2	20	6	16.0	15.09	0.00	Front	94.2	0	2.87	0.217	1.233	1.062	0.284	-
5 300	60	802.11a	Open	Ant.2	20	6	16.0	15.09		Right	94.2	0	2.18		1.233	1.062		-
5 300	60	802.11a	Open	Ant.2	20	6	16.0	15.09		Top	94.2	0	1.81		1.233	1.062		-
5 600	120	802.11a	Open	Ant.2	20	6	16.0	15.95	0.00	Rear	94.2	0	4.47	0.272	1.012	1.062	0.292	-
5 600	120	802.11a	Open	Ant.2	20	6	16.0	15.95		Front	94.2	0	0.979		1.012	1.062		-
5 600	120	802.11a	Open	Ant.2	20	6	16.0	15.95		Right	94.2	0	0.925		1.012	1.062		-
5 600	120	802.11a	Open	Ant.2	20	6	16.0	15.95		Top	94.2	0	1.58		1.012	1.062		-
5 865	173	802.11a	Open	Ant.2	20	6	16.0	14.71		Rear	94.2	0	2.43		1.346	1.062		-
5 865	173	802.11a	Open	Ant.2	20	6	16.0	14.71	0.00	Front	94.2	0	2.73	0.127	1.346	1.062	0.181	-
5 865	173	802.11a	Open	Ant.2	20	6	16.0	14.71		Right	94.2	0	1.21		1.346	1.062		-
5 865	173	802.11a	Open	Ant.2	20	6	16.0	14.71		Top	94.2	0	1.05		1.346	1.062		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Hand 4.0 W/kg Averaged over 10 gram					

NFC Phablet SAR_10g

Frequency		Mode	Data Rate	Power Drift	Test Position	Distance	Meas. SAR	Plot No.
MHz			(Kbps)	(dB)		(mm)	(W/kg)	
13.56		NFC (Type A)	106	0.11	Rear	0	0.00675	-
13.56		NFC (Type B)	106	0.13	Rear	0	0.00727	D9
13.56		NFC (Type F)	106	0.19	Rear	0	6.98e-008	-
13.56		NFC (Type B)	106	0.00	Front	0	0	-
13.56		NFC (Type B)	106	0.00	Left	0	0	-
13.56		NFC (Type B)	106	0.00	Right	0	0	-
13.56		NFC (Type B)	106	0.13	Top	0	0.000118	-
13.56		NFC (Type B)	106	0.00	Bottom	0	0.00	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population				Hand 4.0 W/kg Averaged over 10 gram				

13.5 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D04v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency Band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspot operation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.

GSM/GPRS Test Notes:

1. This EUT'S GSM and GPRS device class is B.
2. This device supports GPRS VOIP in the head and the body-worn configurations therefore GPRS was additionally evaluated for head and body-worn compliance.
3. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
4. Per FCC KDB 447498 D04v06, 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 D04v06, 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 D04v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S subframes using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. Per KDB 941225 D05Av01r02, SAR for LTE Carrier Aggregation operations was not needed because the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink CA was not activated.
9. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.
10. SAR test reduction is applied using the following criteria:
Start with the largest channel Bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel Bandwidths is not required because the reported SAR for the highest

channel Bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel Bandwidth.

NR Notes:

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

WLAN Notes:

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

Bluetooth Notes:

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

14. Simultaneous SAR Analysis

This device is containing 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 a physical test configuration is $\leq 1.6\text{W/kg}$ for 1g SAR and $\leq 4\text{ W/kg}$ for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with no antenna grouping for all WWAN sub-6/WLAN/BT except NFC. Qualcomm Smart Transmit algorithm in WWAN sub-6/WLAN/BT directly adds the time-averaged RF exposure from WWAN sub-6/WLAN/BT. Smart Transmit algorithm controls the total RF exposure from all WWAN sub-6/WLAN/BT to not exceed FCC limit. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time, therefore simultaneous transmission compliance between WWAN Sub6/WLAN/Bluetooth operation is demonstrated in the Part 2 Report during algorithm validation.

Simultaneous SAR for WWAN sub-6/WLAN/BT in a DSI is the worst case reported SAR of WWAN sub-6/WLAN/BT.

When operating in the same antenna group, Qualcomm Smart Transmit algorithm in WWAN/WLAN directly adds the time-averaged RF exposure(LTE+ sub6 NR, Inter-band ULCA, WLAN DBS). Smart Transmit algorithm controls the total RF exposure(LTE+ sub6 NR, Inter-band ULCA, WLAN DBS) to not exceed FCC limit. Therefore, simultaneous transmission compliance between SARradio1 + SAR radio2 operations within an antenna group is demonstrated in the Part 2 Report during algorithm validation.

14.1 Phablet (DSI = 1) Simultaneous Transmission Analysis

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router reported 1g SAR < 1.2W/kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible simultaneous transmission analysis would not exceed the SAR limit.

Position	Main/WLAN/ Bluetooth 10g SAR[W/kg]	NFC 10g SAR[W/kg]	SUM
			10g SAR
			[W/kg]
Rear	2.854	0.00727	2.854
Front	2.302	0	2.302
Left	1.254	0	1.254
Right	2.935	0	2.935
Top	0.505	0.000118	0.505
Bottom	1.947	0	1.947

Table 14.1 Phablet (DSI=1) Simultaneous Scenario with NFC

14.2 Conclusion

The above numerical summed SAR results is sufficient to show 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 IEEE 1528-2013 Section 6.3.4.1

15. SAR Measurement Variability and Uncertainty

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

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

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

Head SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
2 402	0	Bluetooth DH5	Right Touch	0.803	0.728	-9.34
5 845	169	WLAN 5GHz	Right Touch	0.882	0.876	-0.68
2 592.99	518598	NR Band n41	Left Touch	0.829	0.808	-2.53

Body-Worn SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 752.6	1513	UMTS Band 4	Rear	0.977	0.977	0.00
1 907.6	9538	UMTS Band 2	Rear	0.993	0.985	-0.81
1 905	26590	LTE Band 25	Rear	0.952	0.927	-2.63
1 905	26590	LTE Band 25	Rear	0.858	0.827	-3.61
1 770	132572	LTE Band 66	Rear	0.871	0.814	-6.54
1 882.5	376500	NR Band n25	Rear	0.916	0.924	0.87
1745	349000	NR Band n66	Rear	0.888	0.904	1.80

Hotspot SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 907.6	9538	UMTS Band 2	Bottom	0.971	0.966	-0.51
1 905	26590	LTE Band 25	Bottom	0.908	0.873	-3.85
1 905	26590	LTE Band 25	Right	0.831	0.753	-9.39
1 770	132572	LTE Band 66	Right	0.940	0.946	0.64
3 930	662000	NR Band n77	Left	0.860	0.891	3.60

Phablet SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 732.4	1412	UMTS Band 4	Bottom	2.38	2.32	-2.52
1 905	26590	LTE Band 25	Rear	2.04	2.04	0.00
1 720	132072	LTE Band 66	Right	2.24	2.25	0.45
1 882.5	376500	NR Band n25	Right	2.38	2.36	-0.84
1 745	349000	NR Band n66	Right	2.32	2.35	1.29

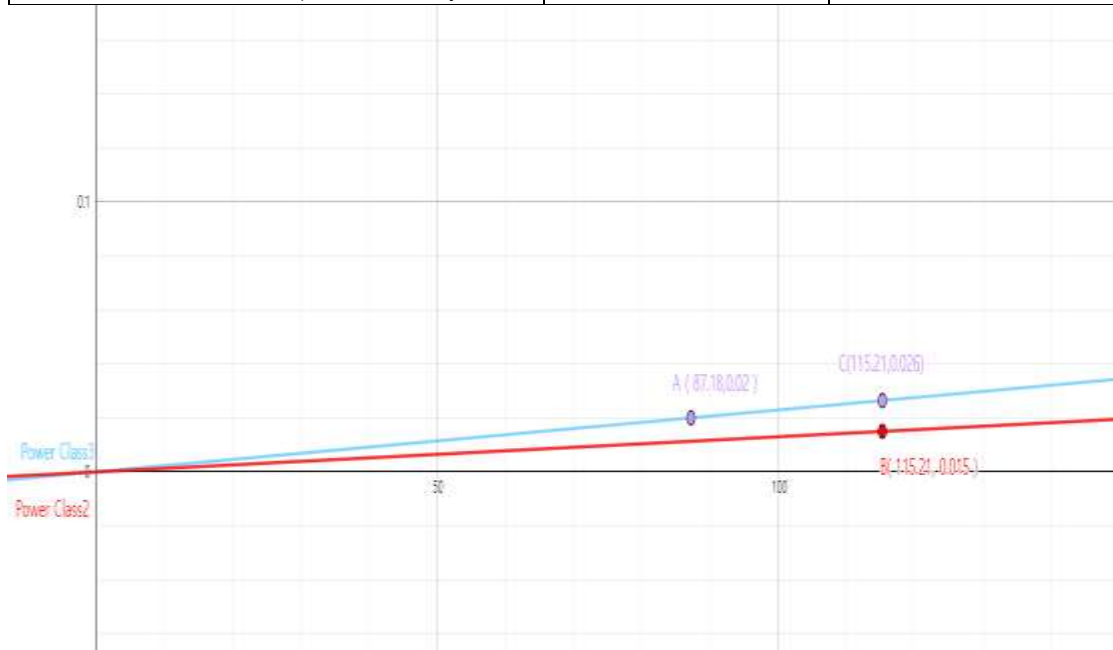
16. LTE TDD Band 41 Power Class 2 and Power class 3 Linearity

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

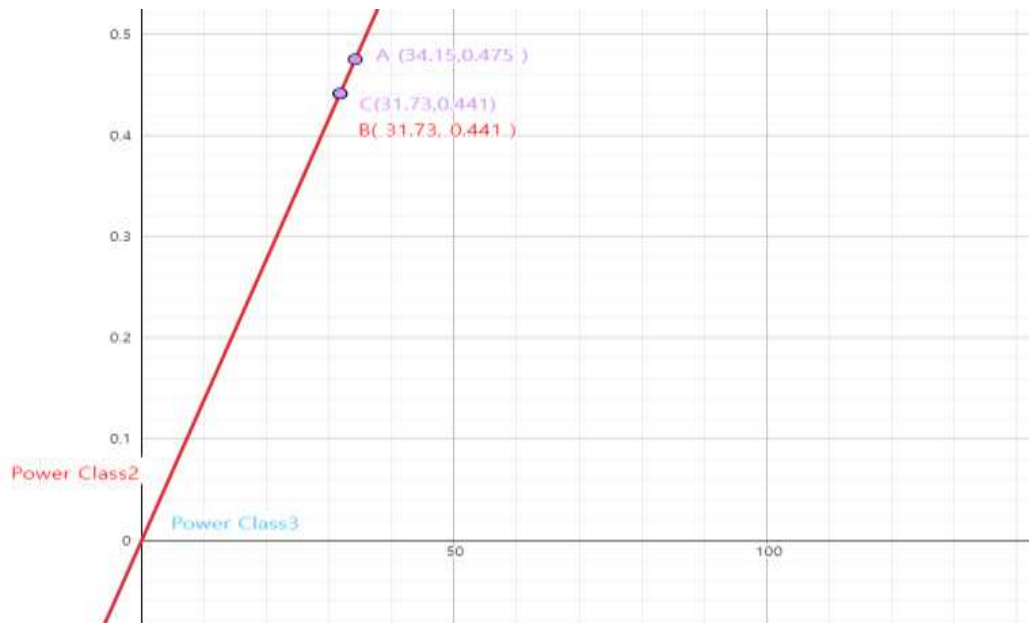
The linearity between the power class 3 and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

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

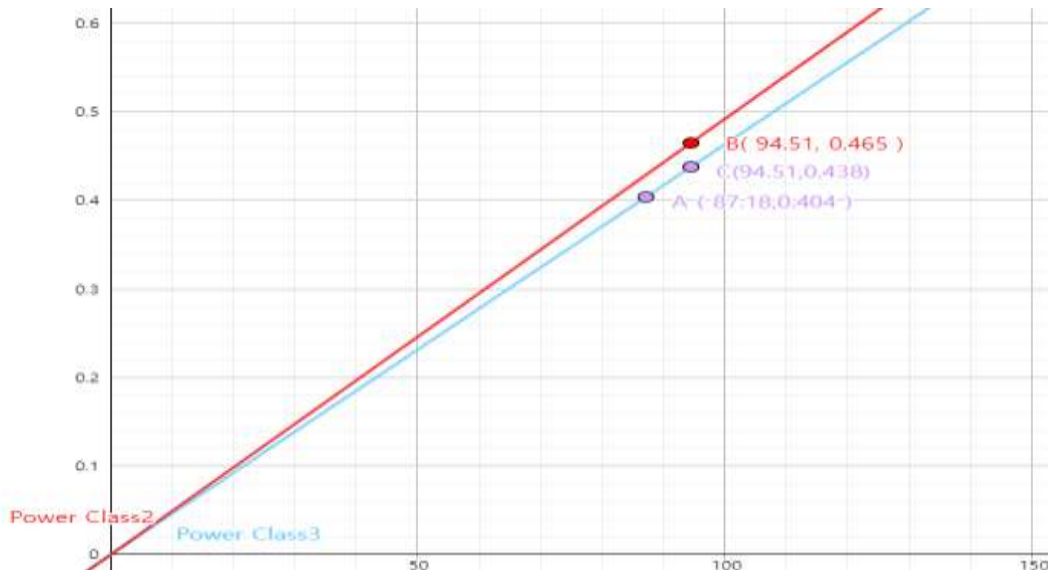
Ant.B Head		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	25
Measured Output Power[dBm]	21.39	24.25
Reported SAR[W/kg]	0.02	0.015
Measured Power[mW]	137.72	266.07
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	87.18	115.21
% deviation from expected linearity		-43.25



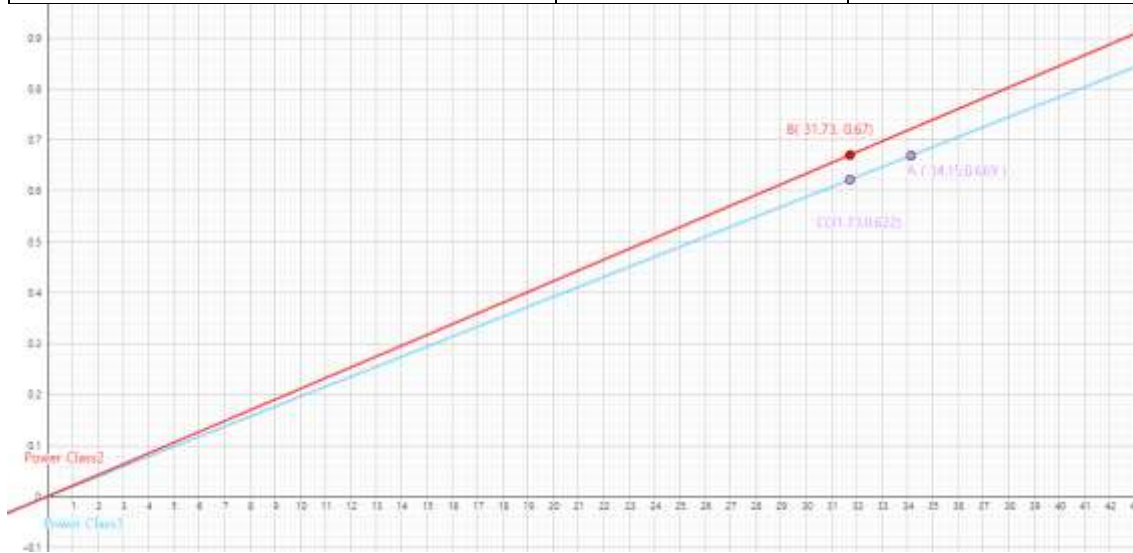
Ant.B Open Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	18	19.6
Measured Output Power[dBm]	17.32	18.65
Reported SAR[W/kg]	0.475	0.441
Measured Power[mW]	53.95	73.28
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	34.15	31.73
% deviation from expected linearity		-0.08



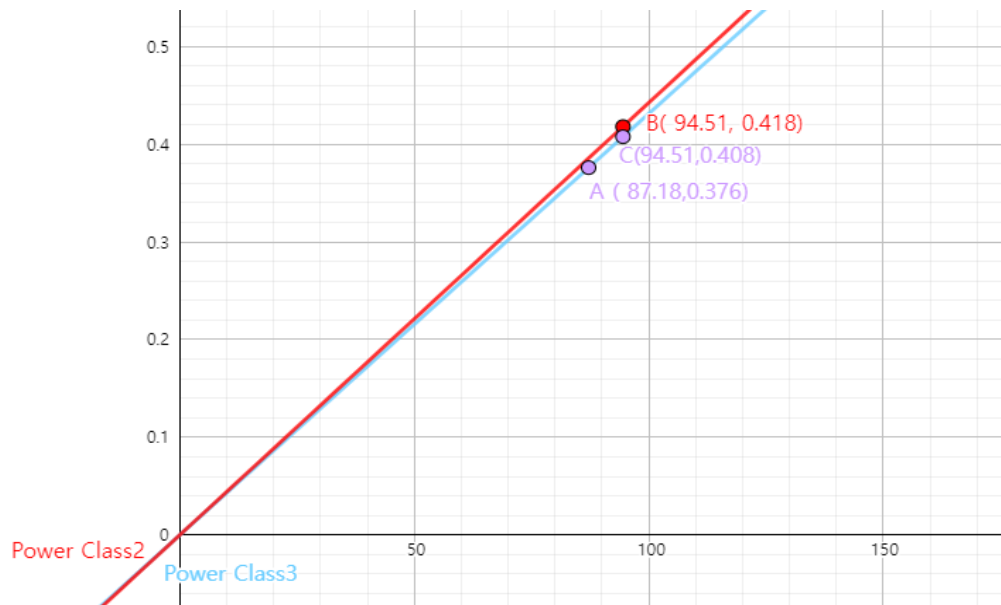
Ant.B Open BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24
Measured Output Power[dBm]	21.39	23.39
Reported SAR[W/kg]	0.404	0.465
Measured Power[mW]	137.72	218.27
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	87.18	94.51
% deviation from expected linearity		6.17



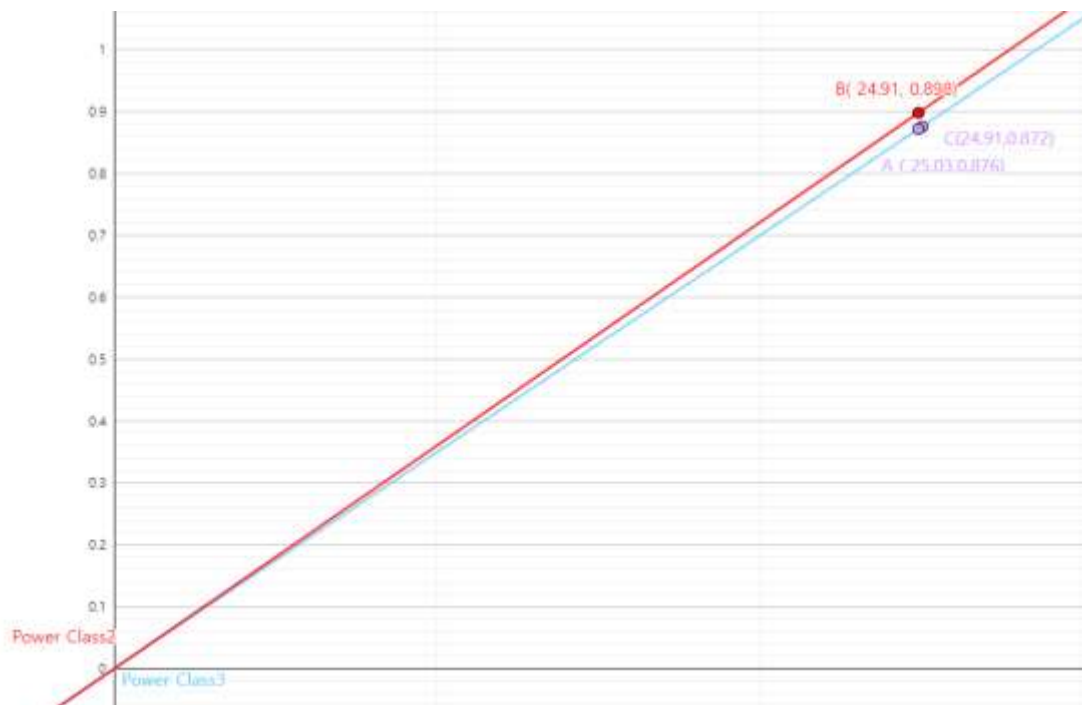
Ant.B Close Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	18	19.6
Measured Output Power[dBm]	17.32	18.65
Reported SAR[W/kg]	0.669	0.67
Measured Power[mW]	53.95	73.28
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	34.15	31.73
% deviation from expected linearity		7.79



Ant.B Close BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24
Measured Output Power[dBm]	21.39	23.39
Reported SAR[W/kg]	0.376	0.418
Measured Power[mW]	137.72	218.27
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	87.18	94.51
% deviation from expected linearity		2.55



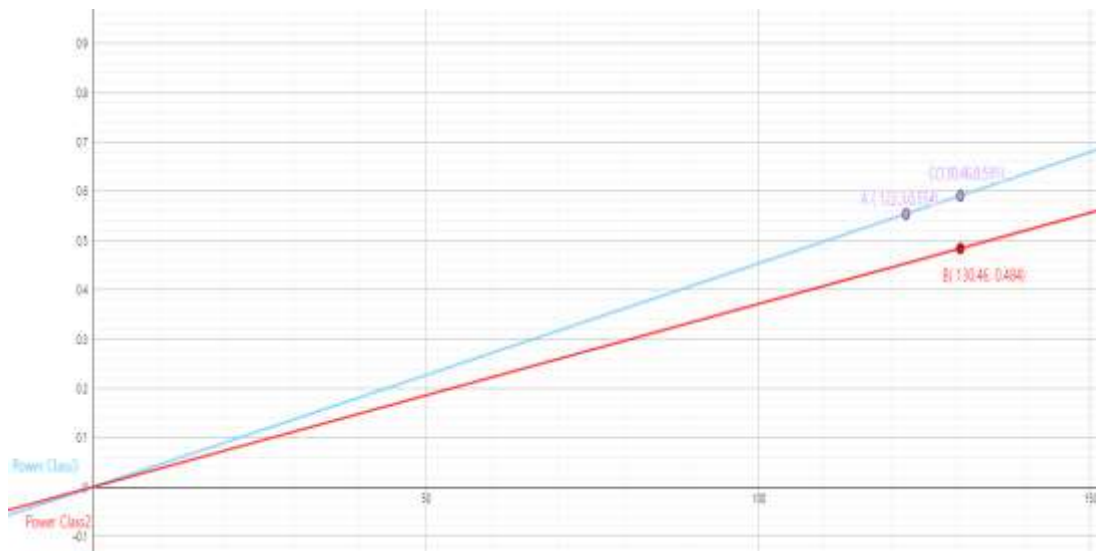
Ant.I Head		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	16.8	18.4
Measured Output Power[dBm]	15.97	17.6
Reported SAR[W/kg]	0.876	0.898
Measured Power[mW]	39.54	57.54
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	25.03	24.91
% deviation from expected linearity		3.01



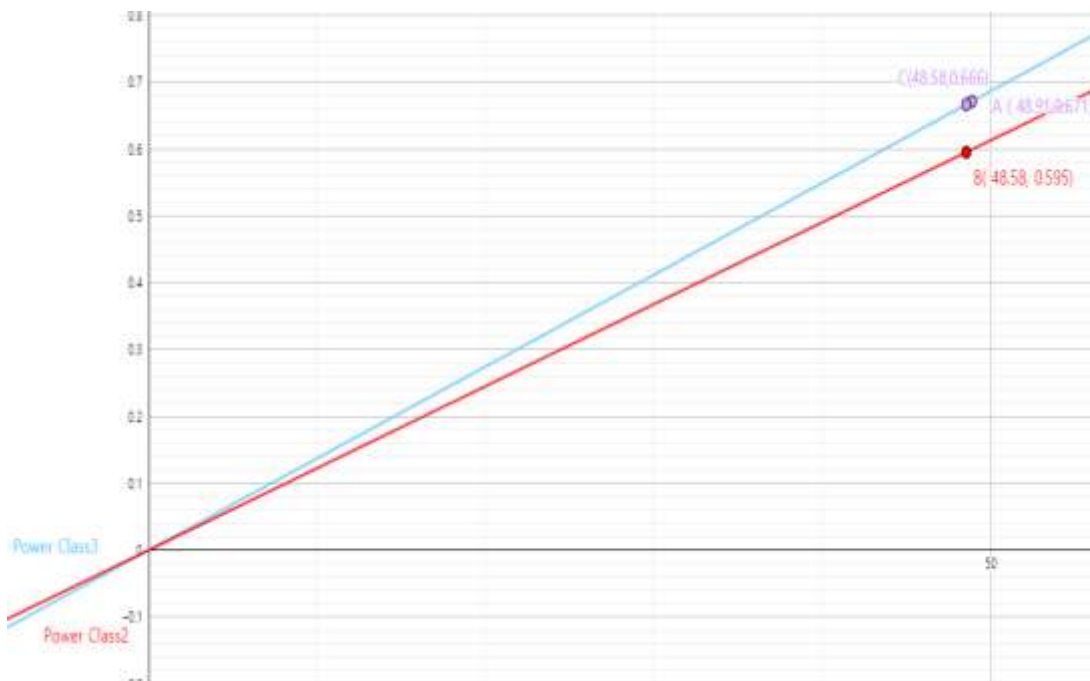
Ant.I Open Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	19.5	21.1
Measured Output Power[dBm]	18.95	20.53
Reported SAR[W/kg]	0.266	0.252
Measured Power[mW]	78.52	112.98
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	49.7	48.92
% deviation from expected linearity		-3.75



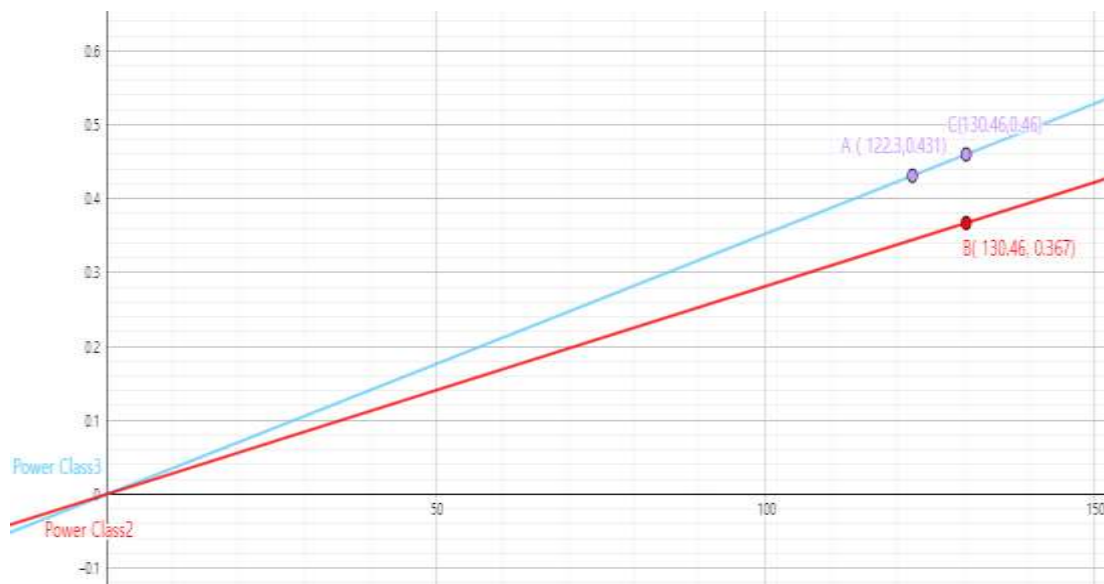
Ant.I Open BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	23.5	25.1
Measured Output Power[dBm]	22.86	24.79
Reported SAR[W/kg]	0.554	0.484
Measured Power[mW]	193.2	301.3
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	122.3	130.46
% deviation from expected linearity		-18.10



Ant.I Close Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	19.5	21.1
Measured Output Power[dBm]	18.88	20.5
Reported SAR[W/kg]	0.671	0.595
Measured Power[mW]	77.27	112.2
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	48.91	48.58
% deviation from expected linearity		-10.72



Ant.I Close BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	23.5	25.1
Measured Output Power[dBm]	22.86	24.79
Reported SAR[W/kg]	0.431	0.367
Measured Power[mW]	193.2	301.3
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	122.3	130.46
% deviation from expected linearity		-20.18



17. Measurement Uncertainty

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

18. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS9spe-TX2-60	F/21/0029145/C/001	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/56W9A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	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	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60L	F10/5D1CA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5SD0A1/ C/ 01	N/A	N/A	N/A
Staubli	TX2-60 Lspe	F/21/0029145/A/001	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/56W9A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 Lspeag	F11/ 5K3RA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
Staubli	TX60 Xlspeag	F10/5D1CA1/A/01	N/A	N/A	N/A
Staubli	TX90 Xl speag	F13/ 5SD0A1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21144507C	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142102	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142606B	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142605	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1203 0309	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0008	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0123	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	001729	N/A	N/A	N/A
TESTO	608-H1/Thermometer	83348028	03/20/2024	Annual	03/20/2025
TESTO	608-H1/Thermometer	83406789	06/29/2023	Annual	06/29/2024
TESTO	175-H1/Thermometer	40331922309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40332651310	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331936309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331939309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331949309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	44606611906	03/20/2024	Annual	03/20/2025
TESTO	175-H1/Thermometer	83348029	03/20/2024	Annual	03/20/2025
SPEAG	DAE4	1750	09/19/2023	Annual	09/19/2024
SPEAG	DAE4	1720	04/24/2023	Annual	04/24/2024
SPEAG	DAE4	868	09/20/2023	Annual	09/20/2024
SPEAG	DAE4	869	03/23/2023	Annual	03/23/2024
SPEAG	DAE4	869	03/15/2024	Annual	03/15/2025
SPEAG	DAE4	1687	07/18/2023	Annual	07/18/2024
SPEAG	DAE4	1417	02/16/2024	Annual	02/16/2025
SPEAG	DAE4	446	11/16/2023	Annual	11/16/2024
SPEAG	DAE4	504	01/30/2024	Annual	01/30/2025
SPEAG	DAE4	648	04/25/2023	Annual	04/25/2024
SPEAG	DAE4	652	01/17/2024	Annual	01/17/2025
SPEAG	DAE4	1464	06/16/2023	Annual	06/16/2024
SPEAG	DAE4	1686	05/23/2023	Annual	05/23/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	E-Field Probe EX3DV4	7702	01/22/2024	Annual	01/22/2025
SPEAG	E-Field Probe EX3DV4	3968	09/27/2023	Annual	09/27/2024
SPEAG	E-Field Probe EX3DV4	3797	01/23/2024	Annual	01/23/2025
SPEAG	E-Field Probe EX3DV4	3903	07/19/2023	Annual	07/19/2024
SPEAG	E-Field Probe EX3DV4	7655	05/25/2023	Annual	05/25/2024
SPEAG	E-Field Probe ES3DV3	3076	07/18/2023	Annual	07/18/2024
SPEAG	E-Field Probe EX3DV4	7654	05/24/2023	Annual	05/24/2024
SPEAG	E-Field Probe EX3DV4	7681	11/27/2023	Annual	11/27/2024
SPEAG	E-Field Probe EX3DV4	7751	10/06/2023	Annual	10/06/2024
SPEAG	E-Field Probe EX3DV4	7654	05/24/2023	Annual	05/24/2024
SPEAG	CLA13	1016	09/21/2023	Annual	09/21/2024
SPEAG	Dipole D750V3	1014	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D835V2	4d165	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D1800V2	2d015	05/17/2023	Annual	05/17/2024
SPEAG	Dipole D1900V2	5d032	01/18/2024	Annual	01/23/2025
SPEAG	Dipole D2450V2	1049	04/25/2023	Annual	04/25/2024
SPEAG	Dipole D2450V2	743	03/14/2024	Annual	03/14/2025
SPEAG	Dipole D2600V2	1106	05/24/2023	Annual	05/24/2024
SPEAG	Dipole D3500V2	1132	01/23/2024	Annual	01/23/2025
SPEAG	Dipole D3700V2	1066	11/20/2023	Annual	11/20/2024
SPEAG	Dipole D3900V2	1019	05/19/2023	Annual	05/19/2024
SPEAG	Dipole D5GHzV2	1317	05/17/2023	Annual	05/17/2024
Agilent	Power Meter E4419B	MY41291386	09/21/2023	Annual	09/21/2024
Agilent	Power Meter N1911A	MY45101406	05/26/2023	Annual	05/26/2024
Agilent	Power Sensor 8481A	SG1091286	09/21/2023	Annual	09/21/2024
H.P	Power Sensor 8481A	MY41090675	09/21/2023	Annual	09/21/2024
Agilent	Wideband Power Sensor N1921A	MY55220026	07/28/2023	Annual	07/28/2024
Agilent	11636B/Power Divider	58698	01/15/2024	Annual	01/15/2025
SPEAG	DAKS 3.5	1038	01/22/2024	Annual	01/22/2025
SPEAG	Vector Reflectometer	050813	04/26/2023	Annual	04/26/2024
SPEAG	Vector Reflectometer	21393001	03/21/2024	Annual	03/21/2025
SPEAG	MXA Signal Analyzer	MY49100108	01/09/2024	Annual	01/09/2025
H.P	Network Analyzer /8753ES	JP39240221	12/26/2023	Annual	12/26/2024
Protek	NETWORK ANALYZER	X11-15305	02/15/2024	Annual	02/15/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/21/2023	Annual	09/21/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/27/2023	Annual	07/27/2024
R&S	Wireless Communication Test Set CMW500	115733	03/19/2024	Annual	03/19/2025
R&S	Wireless Communication Test Set CMW500	139333	12/13/2023	Annual	12/13/2024
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/19/2024	Annual	03/19/2025
Keysight	PSG Vector Signal Generator	MY50350097	03/05/2024	Annual	03/05/2025
EMPOWER	RF Power Amplifier	1084	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1041D/C0508	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1011	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-15N	10453	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-30N	-	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-60N	32011	09/21/2023	Annual	09/21/2024
Agilent	Attenuator (3dB) 8693B	MY39260298	08/22/2023	Annual	08/22/2024
HP	Attenuator (3dB) 33340A	02427	08/22/2023	Annual	08/22/2024
HP	Attenuator (20dB) 8493C	09271	08/22/2023	Annual	08/22/2024
Agilent	Directional Bridge 86205A	3140A04581	04/25/2023	Annual	04/25/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
OSI	Power Divider	#1	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#2	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#3	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#4	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#5	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#6	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#7	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#8	05/26/2023	Annual	05/26/2024
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/07/2023	Annual	06/07/2024
HP	Dual Directional Coupler	16072	09/21/2023	Annual	09/21/2024
Anritsu	Radio Communication Test Station MT8000A	6261987928	01/18/2024	Annual	01/18/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Test Station MT8000A	6262148305	12/21/2023	Annual	12/21/2024
Anritsu	Radio Communication Test Station MT8000A	6261967108	04/25/2023	Annual	04/25/2024
Anritsu	Radio Communication Tester MT8820C	6201074225	01/17/2024	Annual	01/17/2025
Anritsu	Radio Communication Tester MT8820C	6200695605	03/19/2024	Annual	03/19/2025
Anritsu	Radio Communication Tester MT8821C	6201502997	05/26/2023	Annual	05/26/2024
Anritsu	Radio Communication Tester MT8821C	6262044720	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Tester MT8821C	6201664725	01/17/2024	Annual	01/17/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/26/2023	Annual	05/26/2024
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	01/16/2024	Annual	01/16/2025

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

19. Conclusion

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

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

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

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Appendix A. DUT Ant. Information & SETUP PHOTO

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

Report No.
HCT-SR-2405-FC003-P