Appendix L. Adjusted SAR, Exposure Ratio Test Data Summary

L.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter

L.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤2 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 10g SAR.
Per FCC KDB Publication 447498 D01v06, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("-").
This device is enabled with Qualcomm® Smart Transmit Gen2 with pre-defined antenna groups (AG0 and AG1). Simultaneous transmission analysis is performed per antenna groups. Below analysis demonstrates the mutually exclusive operation of AG0 and AG1, and the compliance between each antenna group with non-Smart Transmit Radios. For this model, WWAN/WLAN/BT/mmWave Radios are managed under Smart Transmit. Qualcomm Smart Transmit algorithm for WWAN adds directly the time-averaged RF exposure form 4G and time averaged RF Exposure form 5G mmWave NR. Smart Transmit algorithm controls the total RF Exposure from both evaluated directly for the 4G and 5G simultaneous compliance via summation. The validation of the time-averaging algorithm and compliance under the Tx varying transmission scenario for WWAN technologies are reported in Part 2 Report. Non-Smart Transmit Radios include NFC.

When operating in the same antenna group, the compliance under dynamic transmission condition, including all supported simultaneous transmission scenarios, should be assessed and demonstrated in the Part 2 Report during algorithm validation. Therefore, no further simultaneous analysis is needed within an antenna group.

L.3 Antenna Groups

The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined antenna groups (AG). Sub6/mmW Module/WLAN/BT Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating either of below conditions for all exposure scenarios:

a) Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside Smart Transmit is less than regulatory limits. This condition must be demonstrated for all antenna combinations of sub6 AGs.
   or
b) Every antenna from FCC KDB Publication 447498 D01v06 with every antenna from another sub6 AG. These criteria must be demonstrated for all antenna combinations for each pair of AGs.

This device supports two AGs: AG0 and AG1, with AG0 having 4 antennas (A, B, C, D) and AG1 having 5 antennas (E, F, H, I,J) for DSI=0,1 condition. The conditions are verified through the following criteria:

i) Sum of SAR: Demonstrate that the sum of $max.norm.exp.AG0$ and $max.norm.exp.AG1$ and the reported normalized SAR values from radios outside Smart Transmit (denoted as *reported.norm.exp*.ER) should be less than the regulatory limit for each supported DSI following the below procedure:

1. For a given Obtain the worst-case adjusted SAR for each antenna group, i.e., maximum reported SAR at EFS Plimit +uncertainty (or max of {Pmax+uncertainty, EFS Plimit }, when EFS Plimit > Pmax) out of all supported technologies, frequency bands and antennas in AG0 and AG1, then normalized to the regulatory limit to get the maximum normalized SAR for each antenna group($max.norm.exp.AG0$ and $max.norm.exp.AG1$)
2. For external radios outside of Smart Transmit : Obtain the worst-case RF exposure for each external radio normalized to regulatory limit to get the normalized SAR for each external radio
3. Demonstrate that the sum of these RF exposures meets: {max.norm.exp.AG0 + $max.norm.exp.AG1$+normalized NFC SAR } ≤ 1.

ii) composite exposure distribution criteria: when TER sum of an antenna pair is over the limit for a DSI/exposure position, composite exposure distribution can be done to demonstrate simultaneous transmission compliance.

1. Composite exposure distributions for SAR, SAR antenna pairs: determine the composite exposure distributions for each antenna, normalized each composite distribution with the regulatory limit, then overlay/align these distributions in speag relative to the device, and then sum them up in space to

determine the aggregate distribution. Demonstrate the maximum normalized exposure out of all points in space on the aggregate distribution ≤ 1

For a given exposure condition, the composite exposure distribution for an antenna is determined by aligning the exposure distributions in space relative to the device and taking the maximum value of each point in space out of all supported radio configurations from all supported technologies/bands.

To determine composite SAR distribution for an antenna on a given DSI/exposure position:

1) Perform "Fast Volume Scan" in the mid channel using SPEAG DASY to obtain 1g or 10g SAR distribution for each technology/band supported on the antenna.
2) Export the 1g or 10gSAR distribution from the "Fast Volume Scan" and divide it by the maximum value in the distribution to obtain normalized 10gSAR distribution for each technology/band.
3) Scale this normalized 1g or 10gSAR distribution with the "adjusted SAR"value obtained from maximum *reported* SAR at EFS *P*limit +uncertainty (or max of {*P*max+uncertainty, EFS *P*limit } when EFS *P*limit > *P*max) out of all supported technologies/bands for that antenna.
4) Determine composite SAR exposure distribution for the antenna given by maximum exposure distribution out of all supported technologies/bands at each point in space.
5) Determine normalized composite SAR distribution by dividing step 4) result with the regulatory limit.

L.4. Adjusted SAR, Exposure Ratio Measurement Results

L.4.1 Adjusted SAR, Exposure Ratio Head Measurement Results

GSM 850 Head SAR											
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dBm)	(dBm)			(W/kg)		(W/kg)	
836.6	190	GSM Voice	MAIN1	35.0	32.30	Left Touch	1:8.3	0.096	1.875	0.180	0.113
836.6	190	GSM Voice	MAIN1	35.0	32.30	Left Tilt	1:8.3	0.062	1.875	0.116	0.073
836.6	190	GSM Voice	MAIN1	35.0	32.30	Right Cheek	1:8.3	0.093	1.875	0.174	0.109
836.6	190	GSM Voice	MAIN1	35.0	32.30	Right Tilt	1:8.3	0.048	1.875	0.090	0.056
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Left Touch	1:4.15	0.079	1.346	0.106	0.066
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Left Tilt	1:4.15	0.061	1.346	0.082	0.051
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Right Cheek	1:4.15	0.098	1.346	0.132	0.082
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Right Tilt	1:4.15	0.058	1.346	0.078	0.049
836.6	190	GSM Voice	SUB1	30.2	29.15	Left Touch	1:8.3	0.246	1.274	0.313	0.196
836.6	190	GSM Voice	SUB1	30.2	29.15	Left Tilt	1:8.3	0.355	1.274	0.452	**0.283**
836.6	190	GSM Voice	SUB1	30.2	29.15	Right Cheek	1:8.3	0.333	1.274	0.424	0.265
836.6	190	GSM Voice	SUB1	30.2	29.15	Right Tilt	1:8.3	0.308	1.274	0.392	0.245
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Left Touch	1:2.07	0.254	1.208	0.307	0.192
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Left Tilt	1:2.07	0.247	1.208	0.298	0.186
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Right Cheek	1:2.07	0.283	1.208	0.342	0.214
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Right Tilt	1:2.07	0.260	1.208	0.314	0.196

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram

GSM 1900 Head SAR											
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dBm)	(dBm)			(W/kg)		(W/kg)	
512	512	GSM Voice	MAIN1	35.0	30.28	Left Touch	1:8.3	0.074	2.985	0.221	0.138
512	512	GSM Voice	MAIN1	35.0	30.28	Left Tilt	1:8.3	0.041	2.985	0.122	0.076
512	512	GSM Voice	MAIN1	35.0	30.28	Right Cheek	1:8.3	0.036	2.985	0.107	0.067
512	512	GSM Voice	MAIN1	35.0	30.28	Right Tilt	1:8.3	0.037	2.985	0.110	0.069
661	661	GPRS 3Tx	MAIN1	30.3	26.40	Left Touch	1:2.77	0.092	2.432	0.224	**0.140**
661	661	GPRS 3Tx	MAIN1	30.3	26.40	Left Tilt	1:2.77	0.044	2.432	0.107	0.067
661	661	GPRS 3Tx	MAIN1	30.3	26.40	Right Cheek	1:2.77	0.053	2.432	0.129	0.081
661	661	GPRS 3Tx	MAIN1	30.3	26.40	Right Tilt	1:2.77	0.042	2.432	0.102	0.064
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram					

UMTS Band 5 Head SAR											
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(W/kg)		(W/kg)	
836.6	4183	RMC	MAIN1	26.0	24.09	Left Touch	1:1	0.086	1.552	0.133	0.083
836.6	4183	RMC	MAIN1	26.0	24.09	Left Tilt	1:1	0.060	1.552	0.093	0.058
836.6	4183	RMC	MAIN1	26.0	24.09	Right Touch	1:1	0.110	1.552	0.171	0.107
836.6	4183	RMC	MAIN1	26.0	24.09	Right Tilt	1:1	0.063	1.552	0.098	0.061
836.6	4183	RMC	SUB1	21.0	19.89	Left Touch	1:1	0.453	1.291	0.585	**0.366**
836.6	4183	RMC	SUB1	21.0	19.89	Left Tilt	1:1	0.384	1.291	0.496	0.310
836.6	4183	RMC	SUB1	21.0	19.89	Right Touch	1:1	0.391	1.291	0.505	0.315
836.6	4183	RMC	SUB1	21.0	19.89	Right Tilt	1:1	0.342	1.291	0.442	0.276
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram					

UMTS Band 4 Head SAR											
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(W/kg)		(W/kg)	
1 732.4	1412	RMC	MAIN1	26.0	23.20	Left Touch	1:1	0.152	1.905	0.290	**0.181**
1 732.4	1412	RMC	MAIN1	26.0	23.20	Left Tilt	1:1	0.078	1.905	0.149	0.093
1 732.4	1412	RMC	MAIN1	26.0	23.20	Right Touch	1:1	0.105	1.905	0.200	0.125
1 732.4	1412	RMC	MAIN1	26.0	23.20	Right Tilt	1:1	0.075	1.905	0.143	0.089
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

UMTS Band 2 Head SAR											
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(W/kg)		(W/kg)	
1 880	9400	RMC	MAIN1	26.0	23.43	Left Touch	1:1	0.140	1.807	0.253	**0.158**
1 880	9400	RMC	MAIN1	26.0	23.43	Left Tilt	1:1	0.078	1.807	0.141	0.088
1 880	9400	RMC	MAIN1	26.0	23.43	Right Touch	1:1	0.088	1.807	0.159	0.099
1 880	9400	RMC	MAIN1	26.0	23.43	Right Tilt	1:1	0.063	1.807	0.114	0.071
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

LTE FDD Band 12 Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Left Touch	0	1	49	1:1	0.085	1.416	0.120	0.075
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Left Touch	1	25	24	1:1	0.074	1.803	0.133	0.083
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Left Tilt	0	1	49	1:1	0.051	1.416	0.072	0.045
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Left Tilt	1	25	24	1:1	0.039	1.803	0.070	0.044
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Right Touch	0	1	49	1:1	0.096	1.416	0.136	0.085
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Right Touch	1	25	24	1:1	0.077	1.803	0.139	0.087
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Right Tilt	0	1	49	1:1	0.046	1.416	0.065	0.041
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Right Tilt	1	25	24	1:1	0.034	1.803	0.061	0.038
707.5	23095	QPSK	SUB1	10	21.0	19.65	Left Touch	0	1	0	1:1	0.467	1.365	0.637	0.398
707.5	23095	QPSK	SUB1	10	21.0	19.56	Left Touch	0	25	24	1:1	0.423	1.393	0.589	0.368
707.5	23095	QPSK	SUB1	10	21.0	19.65	Left Tilt	0	1	0	1:1	0.558	1.365	0.762	0.476
707.5	23095	QPSK	SUB1	10	21.0	19.56	Left Tilt	0	25	24	1:1	0.587	1.393	0.818	0.511
707.5	23095	QPSK	SUB1	10	21.0	19.51	Left Tilt	0	50	0	1:1	0.605	1.409	0.852	**0.533**
707.5	23095	QPSK	SUB1	10	21.0	19.65	Right Touch	0	1	0	1:1	0.502	1.365	0.685	0.428
707.5	23095	QPSK	SUB1	10	21.0	19.56	Right Touch	0	25	24	1:1	0.539	1.393	0.751	0.469
707.5	23095	QPSK	SUB1	10	21.0	19.65	Right Tilt	0	1	0	1:1	0.408	1.365	0.557	0.348
707.5	23095	QPSK	SUB1	10	21.0	19.56	Right Tilt	0	25	24	1:1	0.452	1.393	0.630	0.394

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram

LTE FDD Band 13 Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
782	23230	QPSK	MAIN1	10	25.0	23.83	Left Touch	0	1	24	1:1	0.075	1.309	0.098	0.061
782	23230	QPSK	MAIN1	10	25.0	22.83	Left Touch	1	25	0	1:1	0.060	1.648	0.099	0.062
782	23230	QPSK	MAIN1	10	25.0	23.83	Left Tilt	0	1	24	1:1	0.053	1.309	0.069	0.043
782	23230	QPSK	MAIN1	10	25.0	22.83	Left Tilt	1	25	0	1:1	0.040	1.648	0.066	0.041
782	23230	QPSK	MAIN1	10	25.0	23.83	Right Touch	0	1	24	1:1	0.076	1.309	0.099	0.062
782	23230	QPSK	MAIN1	10	25.0	22.83	Right Touch	1	25	0	1:1	0.058	1.648	0.096	0.060
782	23230	QPSK	MAIN1	10	25.0	23.83	Right Tilt	0	1	24	1:1	0.047	1.309	0.062	0.038
782	23230	QPSK	MAIN1	10	25.0	22.83	Right Tilt	1	25	0	1:1	0.035	1.648	0.058	0.036
782	23230	QPSK	SUB1	10	21.0	19.95	Left Touch	0	1	0	1:1	0.390	1.274	0.497	0.311
782	23230	QPSK	SUB1	10	21.0	19.91	Left Touch	0	25	0	1:1	0.371	1.285	0.477	0.298
782	23230	QPSK	SUB1	10	21.0	19.95	Left Tilt	0	50	0	1:1	0.319	1.274	0.406	0.254
782	23230	QPSK	SUB1	10	21.0	19.91	Left Tilt	0	1	0	1:1	0.470	1.285	0.604	**0.377**
782	23230	QPSK	SUB1	10	21.0	19.95	Right Touch	0	25	0	1:1	0.426	1.274	0.543	0.339
782	23230	QPSK	SUB1	10	21.0	19.91	Right Touch	0	1	0	1:1	0.428	1.285	0.550	0.344
782	23230	QPSK	SUB1	10	21.0	19.95	Right Tilt	0	25	0	1:1	0.358	1.274	0.456	0.285
782	23230	QPSK	SUB1	10	21.0	19.91	Right Tilt	0	1	0	1:1	0.348	1.285	0.447	0.279
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram							

LTE FDD Band 25 (PCS) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
1 860	26140	QPSK	MAIN1	20	26.0	23.33	Left Touch	0	1	99	1:1	0.123	1.849	0.227	0.142
1 860	26140	QPSK	MAIN1	20	26.0	22.32	Left Touch	1	50	0	1:1	0.104	2.333	0.243	0.152
1 860	26140	QPSK	MAIN1	20	26.0	23.33	Left Tilt	0	1	99	1:1	0.058	1.849	0.107	0.067
1 860	26140	QPSK	MAIN1	20	26.0	22.32	Left Tilt	1	50	0	1:1	0.037	2.333	0.086	0.054
1 860	26140	QPSK	MAIN1	20	26.0	23.33	Right Touch	0	1	99	1:1	0.083	1.849	0.153	0.096
1 860	26140	QPSK	MAIN1	20	26.0	22.32	Right Touch	1	50	0	1:1	0.063	2.333	0.147	0.092
1 860	26140	QPSK	MAIN1	20	26.0	23.33	Right Tilt	0	1	99	1:1	0.044	1.849	0.081	0.051
1 860	26140	QPSK	MAIN1	20	26.0	22.32	Right Tilt	1	50	0	1:1	0.036	2.333	0.084	0.052
1 905	26590	QPSK	SUB2	20	17.5	17.17	Left Touch	0	1	99	1:1	0.672	1.079	0.725	0.453
1 905	26590	QPSK	SUB2	20	17.5	17.10	Left Touch	0	50	49	1:1	0.684	1.096	0.750	0.469
1 905	26590	QPSK	SUB2	20	17.5	17.17	Left Tilt	0	1	99	1:1	0.782	1.079	0.844	0.527
1 860	26140	QPSK	SUB2	20	17.5	16.78	Left Tilt	0	1	49	1:1	0.801	1.180	0.945	0.591
1 882.5	26365	QPSK	SUB2	20	17.5	17.05	Left Tilt	0	1	0	1:1	0.812	1.109	0.901	0.563
1 905	26590	QPSK	SUB2	20	17.5	17.10	Left Tilt	0	50	49	1:1	0.787	1.096	0.863	0.539
1 882.5	26365	QPSK	SUB2	20	17.5	17.03	Left Tilt	0	50	49	1:1	0.813	1.114	0.906	0.566
1 860	26140	QPSK	SUB2	20	17.5	16.88	Left Tilt	0	50	25	1:1	0.751	1.153	0.866	0.541
1 882.5	26365	QPSK	SUB2	20	17.5	16.99	Left Tilt	0	100	0	1:1	0.797	1.125	0.897	0.560
1 905	26590	QPSK	SUB2	20	17.5	17.17	Right Touch	0	1	99	1:1	0.935	1.079	1.009	0.631
1 860	26140	QPSK	SUB2	20	17.5	16.78	Right Touch	0	1	49	1:1	0.823	1.180	0.971	0.607
1 882.5	26365	QPSK	SUB2	20	17.5	17.05	Right Touch	0	1	0	1:1	0.846	1.109	0.938	0.586
1 905	26590	QPSK	SUB2	20	17.5	17.10	Right Touch	0	50	49	1:1	0.987	1.096	1.082	**0.676**
1 882.5	26365	QPSK	SUB2	20	17.5	17.03	Right Touch	0	50	49	1:1	0.900	1.114	1.003	0.627
1 860	26140	QPSK	SUB2	20	17.5	16.88	Right Touch	0	50	25	1:1	0.822	1.153	0.948	0.592
1 882.5	26365	QPSK	SUB2	20	17.5	16.99	Right Touch	0	100	0	1:1	0.890	1.125	1.001	0.626
1 905	26590	QPSK	SUB2	20	17.5	17.17	Right Tilt	0	1	99	1:1	0.873	1.079	0.942	0.589
1 860	26140	QPSK	SUB2	20	17.5	16.78	Right Tilt	0	1	49	1:1	0.810	1.180	0.956	0.597
1 882.5	26365	QPSK	SUB2	20	17.5	17.05	Right Tilt	0	1	0	1:1	0.843	1.109	0.935	0.584
1 905	26590	QPSK	SUB2	20	17.5	17.10	Right Tilt	0	50	49	1:1	0.832	1.096	0.912	0.570
1 882.5	26365	QPSK	SUB2	20	17.5	17.03	Right Tilt	0	50	49	1:1	0.853	1.114	0.950	0.594
1 860	26140	QPSK	SUB2	20	17.5	16.88	Right Tilt	0	50	25	1:1	0.819	1.153	0.944	0.590
1 882.5	26365	QPSK	SUB2	20	17.5	16.99	Right Tilt	0	100	0	1:1	0.855	1.125	0.962	0.601
1 905	26590	QPSK	SUB2	20	17.5	17.10	Right Touch	0	50	49	1:1	0.952	1.096	1.043	0.652
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

LTE FDD Band 26 (Cell) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Left Touch	0	1	74	1:1	0.113	1.592	0.180	0.112
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Left Touch	1	36	0	1:1	0.089	2.143	0.191	0.119
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Left Tilt	0	1	74	1:1	0.047	1.592	0.075	0.047
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Left Tilt	1	36	0	1:1	0.053	2.143	0.114	0.071
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Right Touch	0	1	74	1:1	0.125	1.592	0.199	0.124
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Right Touch	1	36	0	1:1	0.102	2.143	0.219	0.137
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Right Tilt	0	1	74	1:1	0.069	1.592	0.110	0.069
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Right Tilt	1	36	0	1:1	0.055	2.143	0.118	0.074
831.5	26865	QPSK	SUB1	15	20.0	18.51	Left Touch	0	1	0	1:1	0.429	1.409	0.604	0.378
831.5	26865	QPSK	SUB1	15	20.0	18.47	Left Touch	0	36	0	1:1	0.444	1.422	0.631	**0.395**
831.5	26865	QPSK	SUB1	15	20.0	18.51	Left Tilt	0	1	0	1:1	0.344	1.409	0.485	0.303
831.5	26865	QPSK	SUB1	15	20.0	18.47	Left Tilt	0	36	0	1:1	0.355	1.422	0.505	0.316
831.5	26865	QPSK	SUB1	15	20.0	18.51	Right Touch	0	1	0	1:1	0.286	1.409	0.403	0.252
831.5	26865	QPSK	SUB1	15	20.0	18.47	Right Touch	0	36	0	1:1	0.297	1.422	0.422	0.264
831.5	26865	QPSK	SUB1	15	20.0	18.51	Right Tilt	0	1	0	1:1	0.234	1.409	0.330	0.206
831.5	26865	QPSK	SUB1	15	20.0	18.47	Right Tilt	0	36	0	1:1	0.246	1.422	0.350	0.219
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

LTE TDD Band 41 (Power Class 3) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
2 593	40620	QPSK	MAIN2	20	24.0	23.17	Left Touch	0	1	49	1:1.58	0.037	3.034	0.112	0.070
2 593	40620	QPSK	MAIN2	20	23.0	22.17	Left Touch	1	50	0	1:1.58	0.027	3.819	0.103	0.064
2 593	40620	QPSK	MAIN2	20	24.0	23.17	Left tilt	0	1	49	1:1.58	0.028	3.034	0.085	0.053
2 593	40620	QPSK	MAIN2	20	23.0	22.17	Left tilt	1	50	0	1:1.58	0.019	3.819	0.073	0.045
2 593	40620	QPSK	MAIN2	20	24.0	23.17	Right touch	0	1	49	1:1.58	0.028	3.034	0.085	0.053
2 593	40620	QPSK	MAIN2	20	23.0	22.17	Right touch	1	50	0	1:1.58	0.020	3.819	0.076	0.048
2 593	40620	QPSK	MAIN2	20	24.0	23.17	Right Tilt	0	1	49	1:1.58	0.020	3.034	0.061	0.038
2 593	40620	QPSK	MAIN2	20	23.0	22.17	Right Tilt	1	50	0	1:1.58	0.014	3.819	0.053	0.033
2 593	40620	QPSK	MAIN2	20	26.0	24.78	Left Touch	0	1	49	1:2.31	0.026	3.062	0.080	0.050
Continue to next Page															

LTE TDD Band 41 (Power Class 3) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
2 506	39750	QPSK	SUB2	20	19.0	18.35	Left Touch	0	1	0	1:1.58	0.239	1.161	0.277	0.173
2 506	39750	QPSK	SUB2	20	19.0	18.39	Left Touch	0	50	0	1:1.58	0.252	1.151	0.290	0.181
2 506	39750	QPSK	SUB2	20	19.0	18.35	Left Tilt	0	1	0	1:1.58	0.376	1.161	0.437	0.273
2 506	39750	QPSK	SUB2	20	19.0	18.39	Left Tilt	0	50	0	1:1.58	0.403	1.151	0.464	0.290
2 506	39750	QPSK	SUB2	20	19.0	18.35	Right Touch	0	1	0	1:1.58	0.762	1.161	0.885	0.553
2 549.5	40185	QPSK	SUB2	20	19.0	18.03	Right Touch	0	1	0	1:1.58	0.706	1.250	0.883	0.552
2 593	40620	QPSK	SUB2	20	19.0	18.29	Right Touch	0	1	0	1:1.58	0.57	1.178	0.671	0.420
2 636.5	41055	QPSK	SUB2	20	19.0	17.96	Right Touch	0	1	49	1:1.58	0.476	1.271	0.605	0.378
2 680	41490	QPSK	SUB2	20	19.0	18.00	Right Touch	0	1	0	1:1.58	0.436	1.259	0.549	0.343
2 506	39750	QPSK	SUB2	20	19.0	18.39	Right Touch	0	50	0	1:1.58	0.777	1.151	0.894	0.559
2 549.5	40185	QPSK	SUB2	20	19.0	18.08	Right Touch	0	50	0	1:1.58	0.671	1.236	0.829	0.518
2 593	40620	QPSK	SUB2	20	19.0	18.30	Right Touch	0	50	0	1:1.58	0.541	1.175	0.636	0.397
2 636.5	41055	QPSK	SUB2	20	19.0	17.98	Right Touch	0	50	49	1:1.58	0.470	1.265	0.595	0.372
2 680	41490	QPSK	SUB2	20	19.0	17.97	Right Touch	0	50	25	1:1.58	0.449	1.268	0.569	0.356
2 506	39750	QPSK	SUB2	20	19.0	18.27	Right Touch	0	100	0	1:1.58	0.754	1.183	0.892	0.557
2 506	39750	QPSK	SUB2	20	19.0	18.35	Right Tilt	0	1	0	1:1.58	0.746	1.161	0.866	0.541
2 549.5	40185	QPSK	SUB2	20	19.0	18.03	Right Tilt	0	1	0	1:1.58	0.754	1.250	0.943	0.589
2 593	40620	QPSK	SUB2	20	19.0	18.29	Right Tilt	0	1	0	1:1.58	0.635	1.178	0.748	0.468
2 636.5	41055	QPSK	SUB2	20	19.0	17.96	Right Tilt	0	1	49	1:1.58	0.565	1.271	0.718	0.449
2 680	41490	QPSK	SUB2	20	19.0	18.00	Right Tilt	0	1	0	1:1.58	0.503	1.259	0.633	0.396
2 506	39750	QPSK	SUB2	20	19.0	18.39	Right Tilt	0	50	0	1:1.58	0.852	1.151	0.981	0.613
2 549.5	40185	QPSK	SUB2	20	19.0	18.08	Right Tilt	0	50	0	1:1.58	0.758	1.236	0.937	0.586
2 593	40620	QPSK	SUB2	20	19.0	18.30	Right Tilt	0	50	0	1:1.58	0.649	1.175	0.763	0.477
2 636.5	41055	QPSK	SUB2	20	19.0	17.98	Right Tilt	0	50	49	1:1.58	0.558	1.265	0.706	0.441
2 680	41490	QPSK	SUB2	20	19.0	17.97	Right Tilt	0	50	25	1:1.58	0.511	1.268	0.648	0.405
2 506	39750	QPSK	SUB2	20	19.0	18.27	Right Tilt	0	100	0	1:1.58	0.851	1.183	1.007	**0.629**
2 506	39750	QPSK	SUB2	20	21.0	20.38	Right Tilt	0	50	0	1:2.31	0.847	1.183	1.002	0.626
2 506	39750	QPSK	SUB2	20	19.0	18.39	Right Tilt	0	50	0	1:1.58	0.856	1.151	0.985	0.616

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram

LTE FDD Band 66 (AWS) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
1 745	132322	QPSK	MAIN1	20	26.0	23.39	Left Touch	0	1	99	1:1	0.147	1.824	0.268	0.168
1 770	132572	QPSK	MAIN1	20	26.0	21.89	Left Touch	1	50	0	1:1	0.138	2.576	0.355	0.222
1 745	132322	QPSK	MAIN1	20	26.0	23.39	Left Tilt	0	1	99	1:1	0.062	1.824	0.113	0.071
1 770	132572	QPSK	MAIN1	20	26.0	21.89	Left Tilt	1	50	0	1:1	0.056	2.576	0.144	0.090
1 745	132322	QPSK	MAIN1	20	26.0	23.39	Right Touch	0	1	99	1:1	0.089	1.824	0.162	0.101
1 770	132572	QPSK	MAIN1	20	26.0	21.89	Right Touch	1	50	0	1:1	0.072	2.576	0.185	0.116
1 745	132322	QPSK	MAIN1	20	26.0	23.39	Right Tilt	0	1	99	1:1	0.050	1.824	0.091	0.057
1 770	132572	QPSK	MAIN1	20	26.0	21.89	Right Tilt	1	50	0	1:1	0.042	2.576	0.108	0.068
1 720	132072	QPSK	SUB2	20	17.5	16.45	Left Touch	0	1	0	1:1	0.266	1.274	0.339	0.212
1 720	132072	QPSK	SUB2	20	17.5	16.42	Left Touch	0	50	0	1:1	0.266	1.282	0.341	0.213
1 720	132072	QPSK	SUB2	20	17.5	16.45	Left Tilt	0	1	0	1:1	0.374	1.274	0.476	0.298
1 720	132072	QPSK	SUB2	20	17.5	16.42	Left Tilt	0	50	0	1:1	0.366	1.282	0.469	0.293
1 720	132072	QPSK	SUB2	20	17.5	16.45	Right Touch	0	1	0	1:1	0.400	1.274	0.510	0.319
1 720	132072	QPSK	SUB2	20	17.5	16.42	Right Touch	0	50	0	1:1	0.393	1.282	0.504	0.315
1 720	132072	QPSK	SUB2	20	17.5	16.45	Right Tilt	0	1	0	1:1	0.450	1.274	0.573	**0.358**
1 720	132072	QPSK	SUB2	20	17.5	16.42	Right Tilt	0	50	0	1:1	0.438	1.282	0.562	0.351
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

NR FDD Band n12 Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Left Touch	0	1	1	1:1	0.081	1.274	0.103	0.064
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Left Touch	0	50	28	1:1	0.084	1.276	0.107	0.067
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Left Tilt	0	1	1	1:1	0.032	1.274	0.041	0.025
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Left Tilt	0	50	28	1:1	0.034	1.276	0.043	0.027
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Right Touch	0	1	1	1:1	0.090	1.274	0.115	0.072
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Right Touch	0	50	28	1:1	0.082	1.276	0.105	0.065
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Right Tilt	0	1	1	1:1	0.050	1.274	0.064	0.040
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Right Tilt	0	50	28	1:1	0.047	1.276	0.060	0.037
836.5	167300	CP QPSK	MAIN1	20	25.0	22.52	Right Touch	1.5	1	1	1:1	0.064	1.770	0.113	0.071
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Left Touch	0	1	1	1:1	0.503	1.327	0.667	**0.417**
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Left Touch	0	50	28	1:1	0.479	1.312	0.628	0.393
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Left Touch	0	1	1	1:1	0.434	1.327	0.576	0.360
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Left Tilt	0	50	28	1:1	0.414	1.312	0.543	0.339
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Left Tilt	0	1	1	1:1	0.364	1.327	0.483	0.302
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Right Touch	0	50	28	1:1	0.362	1.312	0.475	0.297
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Right Touch	0	1	1	1:1	0.313	1.327	0.415	0.260
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Right Tilt	0	50	28	1:1	0.315	1.312	0.413	0.258
836.5	167300	CP QPSK	SUB1	20	21.0	19.97	Right Tilt	0	1	1	1:1	0.495	1.268	0.628	0.392
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

NR FDD Band n25 Head (PCS) SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
1 905	381000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.99	Left Touch	0	1	104	1:1	0.105	2.000	0.210	0.131
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.93	Left Touch	0	50	28	1:1	0.164	2.028	0.333	0.208
1 905	381000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.99	Left Tilt	0	1	104	1:1	0.052	2.000	0.104	0.065
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.93	Left Tilt	0	50	28	1:1	0.053	2.028	0.107	0.067
1 905	381000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.99	Right Touch	0	1	104	1:1	0.067	2.000	0.134	0.084
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.93	Right Touch	0	50	28	1:1	0.080	2.028	0.162	0.101
1 905	381000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.99	Right Tilt	0	1	104	1:1	0.040	2.000	0.080	0.050
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	26.0	22.93	Right Tilt	0	50	28	1:1	0.055	2.028	0.112	0.070
1 882.5	376500	CP QPSK	MAIN1	20	26.0	21.62	Left Touch	1.5	1	1	1:1	0.111	2.742	0.304	0.190
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.07	Left Touch	0	1	104	1:1	0.332	1.104	0.367	0.229
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.14	Left Touch	0	50	28	1:1	0.341	1.086	0.370	0.231
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.07	Left Tilt	0	1	104	1:1	0.443	1.104	0.489	0.306
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.14	Left Tilt	0	50	28	1:1	0.446	1.086	0.479	0.299
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.07	Right Touch	0	1	104	1:1	0.551	1.104	0.608	0.380
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.14	Right Touch	0	50	28	1:1	0.565	1.086	0.614	0.383
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.07	Right Tilt	0	1	104	1:1	0.579	1.104	0.639	**0.400**
1 860	372000	DFT-s OFDM QPSK	SUB2	20	17.5	17.14	Right Tilt	0	50	28	1:1	0.566	1.086	0.615	0.384
1882.5	376500	CP QPSK	SUB2	20	17.5	17.24	Right Tilt	0	1	1	1:1	0.600	1.062	0.637	0.398
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

NR TDD Band n41 (Power Class 3) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Left Touch	0	1	1	1:1	0.449	1.130	0.507	0.317
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Left Touch	0	135	0	1:1	0.382	1.130	0.432	0.270
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Left Tilt	0	1	1	1:1	0.529	1.130	0.598	0.374
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Left Tilt	0	135	0	1:1	0.443	1.130	0.501	0.313
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Right Touch	0	1	1	1:1	0.752	1.130	0.850	0.531
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Right Touch	0	135	0	1:1	0.639	1.130	0.722	0.451
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.34	Right Touch	0	270	0	1:1	0.629	1.164	0.732	0.458
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Right Tilt	0	1	1	1:1	0.967	1.130	1.093	**0.683**
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Right Tilt	0	135	0	1:1	0.722	1.130	0.816	0.510
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.34	Right Tilt	0	270	0	1:1	0.741	1.164	0.863	0.539
2 592.99	518598	CP OFDM QPSK	Sub2	100	17.0	16.72	Right Tilt	0	1	1	1:1	0.838	1.067	0.894	0.559
2 592.99	518598	DFT-s OFDM QPSK	Sub2	100	17.0	16.47	Right Tilt	0	1	1	1:1	0.967	1.130	1.093	0.683
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.32	Left Touch	0	1	271	1:1	0.015	1.169	0.018	0.011
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.24	Left Touch	0	135	0	1:1	0.020	1.191	0.024	0.015
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.32	Left Tilt	0	1	271	1:1	0.004	1.169	0.005	0.003
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.24	Left Tilt	0	135	0	1:1	0.005	1.191	0.006	0.004
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.32	Right Touch	0	1	271	1:1	0.014	1.169	0.016	0.010
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.24	Right Touch	0	135	0	1:1	0.018	1.191	0.021	0.013
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.32	Right Tilt	0	1	271	1:1	0.008	1.169	0.009	0.006
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	18.0	17.24	Right Tilt	0	135	0	1:1	0.009	1.191	0.011	0.007
2 592.99	518598	CP QPSK	MAIN2	100	18.0	17.43	Right Tilt	0	1	1	1:1	0.023	1.140	0.026	0.016
2 592.99	518598	CW SRS #3	SUB1	100	17.5	17.21	Left Touch	0	-	-	1:1	0.924	1.069	0.988	0.617
2 592.99	518598	CW SRS #3	SUB1	100	17.5	17.21	Left Tilt	0	-	-	1:1	0.747	1.069	0.799	0.499
2 592.99	518598	CW SRS #3	SUB1	100	17.5	17.21	Right Touch	0	-	-	1:1	0.401	1.069	0.429	0.268
2 592.99	518598	CW SRS #3	SUB1	100	17.5	17.21	Right Tilt	0	-	-	1:1	0.380	1.069	0.406	0.254
2 592.99	518598	CW SRS #3	SUB1	100	17.5	17.21	Left Touch	0	-	-	1:1	0.879	1.069	0.940	0.587
2 592.99	518598	CW SRS #4	MAIN4	100	17.0	16.19	Left Touch	0	-	-	1:1	0	1.205	0.000	0.000
2 592.99	518598	CW SRS #4	MAIN4	100	17.0	16.19	Left Tilt	0	-	-	1:1	0	1.205	0.000	0.000
2 592.99	518598	CW SRS #4	MAIN4	100	17.0	16.19	Right Touch	0	-	-	1:1	0	1.205	0.000	0.000
2 592.99	518598	CW SRS #4	MAIN4	100	17.0	16.19	Right Tilt	0	-	-	1:1	0	1.205	0.000	0.000
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

NR FDD Band n66 Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.56	Left Touch	0	1	214	1:1	0.165	1.754	0.289	0.181
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.37	Left Touch	0	108	0	1:1	0.126	1.832	0.231	0.144
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.56	Left Tilt	0	1	214	1:1	0.059	1.754	0.103	0.065
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.37	Left Tilt	0	108	0	1:1	0.040	1.832	0.073	0.046
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.56	Right Touch	0	1	214	1:1	0.090	1.754	0.158	0.099
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.37	Right Touch	0	108	0	1:1	0.070	1.832	0.128	0.080
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.56	Right Tilt	0	1	214	1:1	0.062	1.754	0.109	0.068
1 745	349000	DFT-s OFDM QPSK	MAIN1	40	26.0	23.37	Right Tilt	0	108	0	1:1	0.048	1.832	0.088	0.055
1 745	349000	CP QPSK	MAIN1	40	26.0	22.18	Left Touch	1.5	1	1	1:1	0.118	2.410	0.284	0.178
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.85	Left Touch	0	1	1	1:1	0.375	1.303	0.489	0.305
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.77	Left Touch	0	108	54	1:1	0.363	1.327	0.482	0.301
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.85	Left Tilt	0	1	1	1:1	0.553	1.303	0.721	0.450
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.77	Left Tilt	0	108	54	1:1	0.52	1.327	0.690	0.431
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.85	Right Touch	0	1	1	1:1	0.621	1.303	0.809	0.506
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.77	Right Touch	0	108	54	1:1	0.589	1.327	0.782	0.489
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.74	Right Touch	0	216	0	1:1	0.589	1.337	0.787	0.492
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.85	Right Tilt	0	1	1	1:1	0.696	1.303	0.907	**0.567**
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.77	Right Tilt	0	108	54	1:1	0.661	1.327	0.877	0.548
1 745	349000	DFT-s OFDM QPSK	SUB2	40	20.0	18.74	Right Tilt	0	216	0	1:1	0.662	1.337	0.885	0.553
1 745	349000	CP QPSK	SUB2	40	20.0	19.10	Right Tilt	0	1	1	1:1	0.667	1.230	0.820	0.513
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

NR TDD Band n77 (Power Class 2) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.47	Left Touch	0	1	1	1:1	0.223	1.130	0.252	0.157
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.48	Left Touch	0	135	138	1:1	0.241	1.127	0.272	0.170
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.47	Left Tilt	0	1	1	1:1	0.286	1.130	0.323	0.202
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.48	Left Tilt	0	135	138	1:1	0.284	1.127	0.320	0.200
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.47	Right Touch	0	1	1	1:1	0.521	1.130	0.589	0.368
3 750.00	650000	DFT-s OFDM QPSK	SUB2	100	16.0	15.20	Right Touch	0	1	271	1:1	0.651	1.202	0.783	0.489
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.48	Right Touch	0	135	138	1:1	0.386	1.127	0.435	0.272
3 750.00	650000	DFT-s OFDM QPSK	SUB2	100	16.0	15.16	Right Touch	0	135	138	1:1	0.601	1.213	0.729	0.456
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.52	Right Touch	0	270	0	1:1	0.371	1.117	0.414	0.259
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.47	Right Tilt	0	1	1	1:1	0.583	1.130	0.659	0.412
3 750.00	650000	DFT-s OFDM QPSK	SUB2	100	16.0	15.20	Right Tilt	0	1	271	1:1	0.646	1.202	0.776	0.485
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.48	Right Tilt	0	135	138	1:1	0.386	1.127	0.435	0.272
3 750.00	650000	DFT-s OFDM QPSK	SUB2	100	16.0	15.16	Right Tilt	0	135	138	1:1	0.863	1.213	1.047	0.654
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	16.0	15.52	Right Tilt	0	270	0	1:1	0.445	1.117	0.497	0.311
3 930.00	662000	CP QPSK	SUB2	100	16.0	15.74	Right Tilt	0	1	1	1:1	0.608	1.062	0.646	0.404
3 750.00	650000	CP QPSK	SUB2	100	16.0	15.33	Right Tilt	0	1	1	1:1	0.69	1.167	0.805	0.503
3 500.01	633334	DFT-s OFDM QPSK	SUB2	100	16.0	15.31	Right Tilt	0	1	271	1:1	0.826	1.172	0.968	0.605
3 500.01	633334	DFT-s OFDM QPSK	SUB2	100	16.0	15.17	Right Tilt	0	135	138	1:1	0.683	1.211	0.827	0.517
3 500.01	633334	DFT-s OFDM QPSK	SUB2	100	16.0	15.10	Right Tilt	0	270	0	1:1	0.737	1.230	0.907	0.567
3 500.01	633334	CP QPSK	SUB2	100	16.0	15.24	Right Tilt	0	1	1	1:1	0.911	1.213	1.105	**0.691**
3 750.00	650000	CW SRS #2	MAIN3	100	11.5	10.52	Left Touch	0	-	-	1:1	0	1.253	0.000	0.000
3 750.00	650000	CW SRS #2	MAIN3	100	11.5	10.52	Left Tilt	0	-	-	1:1	0	1.253	0.000	0.000
3 750.00	650000	CW SRS #2	MAIN3	100	11.5	10.52	Right Touch	0	-	-	1:1	0	1.253	0.000	0.000
3 750.00	650000	CW SRS #2	MAIN3	100	11.5	10.52	Right Tilt	0	-	-	1:1	0	1.253	0.000	0.000
3 500.01	633334	CW SRS #2	MAIN3	100	11.5	10.52	Right Tilt	0	-	-	1:1	0	1.186	0.000	0.000

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NR TDD Band n77 (Power Class 2) Head SAR															
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(W/kg)		(W/kg)	
3 930.00	662000	CW SRS #3	SUB5	100	14.0	13.85	Left Touch	0	-	-	1:1	0.200	1.035	0.207	0.129
3 930.00	662000	CW SRS #3	SUB5	100	14.0	13.85	Left Tilt	0	-	-	1:1	0.015	1.035	0.016	0.010
3 930.00	662000	CW SRS #3	SUB5	100	14.0	13.85	Right Touch	0	-	-	1:1	0.471	1.035	0.487	0.305
3 750.00	650000	CW SRS #3	SUB5	100	14.0	13.46	Right Touch	0	-	-	1:1	0.332	1.132	0.376	0.235
3 930.00	662000	CW SRS #3	SUB5	100	14.0	13.85	Right Tilt	0	-	-	1:1	0.022	1.035	0.023	0.014
3 500.01	633334	CW SRS #3	SUB5	100	14.0	12.71	Right Touch	0	-	-	1:1	0.323	1.346	0.435	0.272
3 930.00	662000	CW SRS #4	MAIN4	100	11.5	10.71	Left Touch	0	-	-	1:1	0	1.199	0.000	0.000
3 930.00	662000	CW SRS #4	MAIN4	100	11.5	10.71	Left Tilt	0	-	-	1:1	0	1.199	0.000	0.000
3 930.00	662000	CW SRS #4	MAIN4	100	11.5	10.71	Right Touch	0	-	-	1:1	0	1.199	0.000	0.000
3 930.00	662000	CW SRS #4	MAIN4	100	11.5	10.71	Right Tilt	0	-	-	1:1	0	1.199	0.000	0.000
3 500.01	633334	CW SRS #4	MAIN4	100	11.5	10.18	Right Touch	0	-	-	1:1	0	1.355	0.000	0.000
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

DTS Head SAR – RCV ON															
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(W/kg)	(W/kg)		(Duty)	(W/kg)	
2 412	1	802.11b	SUB4	20	1	15.0	14.51	Left Touch	98.7		0.134	1.119	1.013	0.152	0.095
2 412	1	802.11b	SUB4	20	1	15.0	14.51	Left Tilt	98.7		0.123	1.119	1.013	0.139	0.087
2 412	1	802.11b	SUB4	20	1	15.0	14.51	Right Touch	98.7		0.811	1.119	1.013	0.919	0.575
2 462	11	802.11b	SUB4	20	1	15.0	14.07	Right Touch	98.7		0.658	1.239	1.013	0.826	0.516
2 412	1	802.11b	SUB4	20	1	15.0	14.51	Right Tilt	98.7		0.328	1.119	1.013	0.372	0.232
2 437	6	802.11b	SUB6	20	1	15.0	13.86	Left Touch	98.7		0.604	1.300	1.013	0.796	0.497
2 437	6	802.11b	SUB6	20	1	15.0	13.86	Left Tilt	98.7		0.073	1.300	1.013	0.096	0.060
2 437	6	802.11b	SUB6	20	1	15.0	13.86	Right Touch	98.7		0.320	1.300	1.013	0.421	0.263
2 437	6	802.11b	SUB6	20	1	15.0	13.86	Right Tilt	98.7		0.046	1.300	1.013	0.061	0.038
2 412	1	802.11b	SUB4+6	20	1	15.0	13.69	Left Touch	98.7		0.741	1.352	1.013	1.015	0.634
2 462	11	802.11b	SUB4+6	20	1	15.0	13.84	Left Touch	98.7		0.839	1.306	1.013	1.110	0.694
2 412	1	802.11b	SUB4+6	20	1	15.0	13.69	Left Tilt	98.7		0.088	1.352	1.013	0.121	0.075
2 412	1	802.11b	SUB4+6	20	1	15.0	13.69	Right Touch	98.7		0.608	1.352	1.013	0.833	0.521
2 462	11	802.11b	SUB4+6	20	1	15.0	13.84	Right Touch	98.7		0.530	1.306	1.013	0.701	0.438
2 412	1	802.11b	SUB4+6	20	1	15.0	13.69	Right Tilt	98.7		0.292	1.352	1.013	0.400	0.250
2 462	11	802.11b	SUB4+6	20	1	15.0	13.84	Left Touch	98.7		0.846	1.306	1.013	1.119	0.700
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram						

NII Head SAR – RCV-ON															
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 290	58	802.11ac	SUB4	80	MCS0	13.0	12.34	Left Touch	86.2	0.344	0.098	1.164	1.160	0.132	0.083
5 290	58	802.11ac	SUB4	80	MCS0	13.0	12.34	Left Tilt	86.2	0.237	0.097	1.164	1.160	0.131	0.082
5 290	58	802.11ac	SUB4	80	MCS0	13.0	12.34	Right Touch	86.2	0.876	0.306	1.164	1.160	0.413	0.258
5 290	58	802.11ac	SUB4	80	MCS0	13.0	12.34	Right Tilt	86.2	0.556	0.212	1.164	1.160	0.286	0.179
5 610	122	802.11ac	SUB4	80	MCS0	13.0	11.84	Left Touch	86.2	0.363	0.094	1.306	1.160	0.142	0.089
5 610	122	802.11ac	SUB4	80	MCS0	13.0	11.84	Left Tilt	86.2	0.218	0.091	1.306	1.160	0.138	0.086
5 610	122	802.11ac	SUB4	80	MCS0	13.0	11.84	Right Touch	86.2	0.699	0.232	1.306	1.160	0.351	0.220
5 610	122	802.11ac	SUB4	80	MCS0	13.0	11.84	Right Tilt	86.2	0.658	0.202	1.306	1.160	0.306	0.191
5 775	155	802.11ac	SUB4	80	MCS0	13.0	11.94	Left Touch	86.2	0.262	0.043	1.276	1.160	0.064	0.040
5 775	155	802.11ac	SUB4	80	MCS0	13.0	11.94	Left Tilt	86.2	0.218	0.043	1.276	1.160	0.064	0.040
5 775	155	802.11ac	SUB4	80	MCS0	13.0	11.94	Right Touch	86.2	0.888	0.239	1.276	1.160	0.354	0.221
5 775	155	802.11ac	SUB4	80	MCS0	13.0	11.94	Right Tilt	86.2	0.303	0.081	1.276	1.160	0.120	0.075
5 855	171	802.11ac	SUB4	80	MCS0	13.0	12.09	Left Touch	86.2	0.0687	0.016	1.233	1.160	0.023	0.014
5 855	171	802.11ac	SUB4	80	MCS0	13.0	12.09	Left Tilt	86.2	0.0618	0.021	1.233	1.160	0.030	0.019
5 855	171	802.11ac	SUB4	80	MCS0	13.0	12.09	Right Touch	86.2	0.557	0.223	1.233	1.160	0.319	0.199
5 855	171	802.11ac	SUB4	80	MCS0	13.0	12.09	Right Tilt	86.2	0.224	0.068	1.233	1.160	0.097	0.061
5 290	58	802.11ac	SUB1	80	MCS0	13.0	11.73	Left Touch	86.2	0.302	0.057	1.340	1.160	0.089	0.055
5 290	58	802.11ac	SUB1	80	MCS0	13.0	11.73	Left Tilt	86.2	0.302	0.049	1.340	1.160	0.076	0.048
5 290	58	802.11ac	SUB1	80	MCS0	13.0	11.73	Right Touch	86.2	0.069	0.020	1.340	1.160	0.031	0.019
5 290	58	802.11ac	SUB1	80	MCS0	13.0	11.73	Right Tilt	86.2	0.164	0.025	1.340	1.160	0.039	0.024
5 690	138	802.11ac	SUB1	80	MCS0	13.0	12.34	Left Touch	86.2	0.724	0.145	1.164	1.160	0.196	0.122
5 690	138	802.11ac	SUB1	80	MCS0	13.0	12.34	Left Tilt	86.2	0.332	0.099	1.164	1.160	0.134	0.084
5 690	138	802.11ac	SUB1	80	MCS0	13.0	12.34	Right Touch	86.2	0.0872	0.029	1.164	1.160	0.039	0.024
5 690	138	802.11ac	SUB1	80	MCS0	13.0	12.34	Right Tilt	86.2	0.179	0.023	1.164	1.160	0.031	0.019
5 775	155	802.11ac	SUB1	80	MCS0	13.0	12.41	Left Touch	86.2	0.32	0.103	1.146	1.160	0.137	0.086
5 775	155	802.11ac	SUB1	80	MCS0	13.0	12.41	Left Tilt	86.2	0.395	0.091	1.146	1.160	0.121	0.076
5 775	155	802.11ac	SUB1	80	MCS0	13.0	12.41	Right Touch	86.2	0.0897	0.026	1.146	1.160	0.035	0.022
5 775	155	802.11ac	SUB1	80	MCS0	13.0	12.41	Right Tilt	86.2	0.068	0.020	1.146	1.160	0.027	0.017
5 855	171	802.11ac	SUB1	80	MCS0	13.0	12.37	Left Touch	86.2	0.543	0.122	1.156	1.160	0.164	0.102
5 855	171	802.11ac	SUB1	80	MCS0	13.0	12.37	Left Tilt	86.2	0.341	0.092	1.156	1.160	0.123	0.077
5 855	171	802.11ac	SUB1	80	MCS0	13.0	12.37	Right Touch	86.2	0.160	0.019	1.156	1.160	0.025	0.016
5 855	171	802.11ac	SUB1	80	MCS0	13.0	12.37	Right Tilt	86.2	0.203	0.035	1.156	1.160	0.047	0.029

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NII Head SAR – RCV-ON															
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 290	58	802.11ac	Sub4+1	80	MCS0	13.0	11.73	Left Touch	86.2	0.275	0.104	1.340	1.160	0.162	0.101
5 290	58	802.11ac	Sub4+1	80	MCS0	13.0	11.73	Left Tilt	86.2	0.238	0.105	1.340	1.160	0.163	0.102
5 290	58	802.11ac	Sub4+1	80	MCS0	13.0	11.73	Right Touch	86.2	1.04	0.279	1.340	1.160	0.434	**0.271**
5 290	58	802.11ac	Sub4+1	80	MCS0	13.0	11.73	Right Tilt	86.2	0.589	0.223	1.340	1.160	0.347	0.217
5 690	138	802.11ac	Sub4+1	80	MCS0	13.0	11.61	Left Touch	86.2	0.25	0.109	1.377	1.160	0.174	0.109
5 690	138	802.11ac	Sub4+1	80	MCS0	13.0	11.61	Left Tilt	86.2	0.315	0.094	1.377	1.160	0.150	0.094
5 690	138	802.11ac	Sub4+1	80	MCS0	13.0	11.61	Right Touch	86.2	0.906	0.244	1.377	1.160	0.390	0.244
5 690	138	802.11ac	Sub4+1	80	MCS0	13.0	11.61	Right Tilt	86.2	0.356	0.121	1.377	1.160	0.193	0.121
5 775	155	802.11ac	Sub4+1	80	MCS0	13.0	11.94	Left Touch	86.2	0.144	0.061	1.276	1.160	0.090	0.056
5 775	155	802.11ac	Sub4+1	80	MCS0	13.0	11.94	Left Tilt	86.2	0.386	0.072	1.276	1.160	0.107	0.067
5 775	155	802.11ac	Sub4+1	80	MCS0	13.0	11.94	Right Touch	86.2	0.442	0.195	1.276	1.160	0.289	0.180
5 775	155	802.11ac	Sub4+1	80	MCS0	13.0	11.94	Right Tilt	86.2	0.191	0.077	1.276	1.160	0.114	0.071
5 855	171	802.11ac	Sub4+1	80	MCS0	13.0	12.09	Left Touch	86.2	0.173	0.046	1.233	1.160	0.066	0.041
5 855	171	802.11ac	Sub4+1	80	MCS0	13.0	12.09	Left Tilt	86.2	0.264	0.049	1.233	1.160	0.070	0.044
5 855	171	802.11ac	Sub4+1	80	MCS0	13.0	12.09	Right Touch	86.2	0.976	0.207	1.233	1.160	0.296	0.185
5 855	171	802.11ac	Sub4+1	80	MCS0	13.0	12.09	Right Tilt	86.2	0.195	0.058	1.233	1.160	0.083	0.052

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram

6 GHz WLAN Head SAR														
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(W/kg)		(Duty)	(W/kg)	
6 185	47	802.11ax	Sub4	160	MCS0	10.5	10.31	Left Touch	100	0.025	1.045	1.000	0.026	0.016
6 185	47	802.11ax	Sub4	160	MCS0	10.5	10.31	Left Tilt	100	0.013	1.045	1.000	0.014	0.008
6 185	47	802.11ax	Sub4	160	MCS0	10.5	10.31	Right Touch	100	0.180	1.045	1.000	0.188	0.118
6 185	47	802.11ax	Sub4	160	MCS0	10.5	10.31	Right Tilt	100	0.070	1.045	1.000	0.073	0.046
6 025	15	802.11ax	Sub4	160	MCS0	10.5	9.64	Right Touch	100	0.141	1.219	1.000	0.172	0.107
6 505	111	802.11ax	Sub4	160	MCS0	10.5	9.27	Right Touch	100	0.209	1.327	1.000	0.277	0.173
6 665	143	802.11ax	Sub4	160	MCS0	10.5	9.51	Right Touch	100	0.227	1.256	1.000	0.285	0.178
6 985	207	802.11ax	Sub4	160	MCS0	10.5	8.79	Right Touch	100	0.131	1.483	1.000	0.194	0.121
6 025	15	802.11ax	Sub1	160	MCS0	10.5	10.30	Left Touch	100	0.042	1.047	1.000	0.044	0.027
6 025	15	802.11ax	Sub1	160	MCS0	10.5	10.30	Left Tilt	100	0.047	1.047	1.000	0.049	0.031
6 025	15	802.11ax	Sub1	160	MCS0	10.5	10.30	Right Touch	100	0.017	1.047	1.000	0.018	0.011
6 025	15	802.11ax	Sub1	160	MCS0	10.5	10.30	Right Tilt	100	0.024	1.047	1.000	0.025	0.016
6 185	47	802.11ax	Sub1	160	MCS0	10.5	10.13	Left Tilt	100	0.024	1.089	1.000	0.026	0.016
6 505	111	802.11ax	Sub1	160	MCS0	10.5	9.60	Left Tilt	100	0.040	1.230	1.000	0.049	0.031
6 665	143	802.11ax	Sub1	160	MCS0	10.5	10.00	Left Tilt	100	0.083	1.122	1.000	0.093	0.058
6 985	207	802.11ax	Sub1	160	MCS0	10.5	9.67	Left Tilt	100	0.054	1.211	1.000	0.065	0.041
6 185	47	802.11ax	Sub4+1	160	MCS0	10.5	10.13	Left Touch	100	0.035	1.089	1.000	0.038	0.024
6 185	47	802.11ax	Sub4+1	160	MCS0	10.5	10.13	Left Tilt	100	0.031	1.089	1.000	0.034	0.021
6 185	47	802.11ax	Sub4+1	160	MCS0	10.5	10.13	Right Touch	100	0.184	1.089	1.000	0.200	0.125
6 185	47	802.11ax	Sub4+1	160	MCS0	10.5	10.13	Right Tilt	100	0.067	1.089	1.000	0.073	0.046
6 025	15	802.11ax	Sub4+1	160	MCS0	10.5	9.64	Right Touch	100	0.169	1.219	1.000	0.206	0.129
6 505	111	802.11ax	Sub4+1	160	MCS0	10.5	9.27	Right Touch	100	0.248	1.327	1.000	0.329	**0.206**
6 665	143	802.11ax	Sub4+1	160	MCS0	10.5	9.51	Right Touch	100	0.204	1.256	1.000	0.256	0.160
6 985	207	802.11ax	Sub4+1	160	MCS0	10.5	8.79	Right Touch	100	0.134	1.483	1.000	0.199	0.124

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram

DSS Head SAR – RCV ON											
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dBm)	(dBm)		(W/kg)		(Duty)	(W/kg)	
2 441.00	39	Bluetooth DH5	SUB4	12.0	11.03	Left Touch	0.057	1.250	1.027	0.073	0.046
2 441.00	39	Bluetooth DH5	SUB4	12.0	11.03	Left Tilt	0.041	1.250	1.027	0.053	0.033
2 441.00	39	Bluetooth DH5	SUB4	12.0	11.03	Right Touch	0.260	1.250	1.027	0.334	0.209
2 441.00	39	Bluetooth DH5	SUB4	12.0	11.03	Right Tilt	0.161	1.250	1.027	0.207	0.129
2 402.00	0	Bluetooth DH5	SUB6	12.0	11.25	Left Touch	0.302	1.189	1.027	0.369	**0.230**
2 402.00	0	Bluetooth DH5	SUB6	12.0	11.25	Left Tilt	0.030	1.189	1.027	0.037	0.023
2 402.00	0	Bluetooth DH5	SUB6	12.0	11.25	Right Touch	0.119	1.189	1.027	0.145	0.091
2 402.00	0	Bluetooth DH5	SUB6	12.0	11.25	Right Tilt	0.014	1.189	1.027	0.017	0.011
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

L4.2 BodyWorn/Hotspot Adjusted SAR, Exposure Ratio Measurement Results

GSM 850 BodyWorn/Hotspot SAR													
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	Voice	MAIN1	35.0	32.30	Rear	1:8.3	10	1	0.162	1.875	0.304	0.190
836.6	190	Voice	MAIN1	35.0	32.30	Front	1:8.3	10	1	0.158	1.875	0.296	0.185
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Rear	1:4.15	10	1	0.217	1.346	0.292	0.183
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Front	1:4.15	10	1	0.215	1.346	0.289	0.181
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Left	1:4.15	10	1	0.237	1.346	0.319	0.199
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Right	1:4.15	10	1	0.259	1.346	0.349	**0.218**
836.6	190	GPRS 2Tx	MAIN1	32.0	30.73	Bottom	1:4.15	10	1	0.052	1.346	0.070	0.044
836.6	190	Voice	SUB1	30.2	29.15	Rear	1:8.3	10	1	0.205	1.274	0.261	0.163
836.6	190	Voice	SUB1	30.2	29.15	Front	1:8.3	10	1	0.162	1.274	0.206	0.129
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Rear	1:2.07	10	1	0.180	1.208	0.217	0.136
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Front	1:2.07	10	1	0.111	1.208	0.134	0.084
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Right	1:2.07	10	1	0.169	1.208	0.204	0.128
836.6	190	GPRS 4Tx	SUB1	24.2	23.38	Top	1:2.07	10	1	0.145	1.208	0.175	0.109
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram						

GSM 1900 BodyWorn/Hotspot SAR													
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880.0	661	Voice	MAIN1	30.2	29.12	Rear	1:8.3	10	0	0.482	1.282	0.618	0.386
1 880.0	661	Voice	MAIN1	30.2	29.12	Front	1:8.3	10	0	0.399	1.282	0.512	0.320
1 880.0	661	GPRS 4Tx	MAIN1	24.2	23.29	Rear	1:2.07	10	0	0.457	1.233	0.563	0.352
1 880.0	661	GPRS 4Tx	MAIN1	24.2	23.29	Front	1:2.07	10	0	0.372	1.233	0.459	0.287
1 880.0	661	GPRS 4Tx	MAIN1	24.2	23.29	Left	1:2.07	10	0	0.092	1.233	0.113	0.071
1 880.0	661	GPRS 4Tx	MAIN1	24.2	23.29	Right	1:2.07	10	0	0.062	1.233	0.076	0.048
1 880.0	661	GPRS 4Tx	MAIN1	24.2	23.29	Bottom	1:2.07	10	0	0.821	1.233	1.012	0.633
1 850.2	512	GPRS 4Tx	MAIN1	24.2	23.20	Bottom	1:2.07	10	0	0.788	1.259	0.992	0.620
1 909.8	810	GPRS 4Tx	MAIN1	24.2	23.14	Bottom	1:2.07	10	0	0.819	1.276	1.045	**0.653**
1 880.0	661	GPRS 4Tx	MAIN1	24.2	23.29	Bottom	1:2.07	10	0	0.825	1.233	1.017	0.636
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram						

UMTS Band 5 BodyWorn/Hotspot SAR													
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	4183	RMC	MAIN1	26.0	24.09	Rear	1:1	10	0	0.275	1.552	0.427	0.267
836.6	4183	RMC	MAIN1	26.0	24.09	Front	1:1	10	0	0.239	1.552	0.371	0.232
836.6	4183	RMC	MAIN1	26.0	24.09	Left	1:1	10	0	0.266	1.552	0.413	0.258
836.6	4183	RMC	MAIN1	26.0	24.09	Right	1:1	10	0	0.313	1.552	0.486	**0.304**
836.6	4183	RMC	MAIN1	26.0	24.09	Bottom	1:1	10	0	0.049	1.552	0.076	0.048
836.6	4183	RMC	SUB1	21.0	19.89	Rear	1:1	10	0	0.207	1.291	0.267	0.167
836.6	4183	RMC	SUB1	21.0	19.89	Front	1:1	10	0	0.170	1.291	0.219	0.137
836.6	4183	RMC	SUB1	21.0	19.89	Right	1:1	10	0	0.057	1.291	0.074	0.046
836.6	4183	RMC	SUB1	21.0	19.89	Top	1:1	10	0	0.161	1.291	0.208	0.130
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram					

UMTS Band 4 BodyWorn/Hotspot SAR													
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1 732.4	1412	RMC	MAIN1	22.0	20.34	Rear	1:1	10	32	0.456	1.466	0.668	0.418
1 732.4	1412	RMC	MAIN1	22.0	20.34	Front	1:1	10	32	0.374	1.466	0.548	0.343
1 732.4	1412	RMC	MAIN1	22.0	20.34	Left	1:1	10	32	0.116	1.466	0.170	0.106
1 732.4	1412	RMC	MAIN1	22.0	20.34	Right	1:1	10	32	0.035	1.466	0.051	0.032
1 732.4	1412	RMC	MAIN1	22.0	20.34	Bottom	1:1	10	32	0.606	1.466	0.888	0.555
1 712.4	1312	RMC	MAIN1	22.0	20.35	Bottom	1:1	10	32	0.581	1.462	0.849	0.531
1 752.6	1513	RMC	MAIN1	22.0	20.38	Bottom	1:1	10	32	0.654	1.452	0.950	**0.594**
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram					

UMTS Band 2 BodyWorn/Hotspot SAR													
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880.0	9400	RMC	MAIN1	20.5	19.11	Rear	1:1	10	0	0.253	1.377	0.348	0.218
1 880.0	9400	RMC	MAIN1	20.5	19.11	Front	1:1	10	0	0.193	1.377	0.266	0.166
1 880.0	9400	RMC	MAIN1	20.5	19.11	Left	1:1	10	0	0.066	1.377	0.091	0.057
1 880.0	9400	RMC	MAIN1	20.5	19.11	Right	1:1	10	0	0.019	1.377	0.026	0.016
1 880.0	9400	RMC	MAIN1	20.5	19.11	Bottom	1:1	10	0	0.806	1.377	1.110	**0.694**
1 852.4	9262	RMC	MAIN1	20.5	19.48	Bottom	1:1	10	0	0.816	1.265	1.032	0.645
1 907.6	9538	RMC	MAIN1	20.5	19.08	Bottom	1:1	10	0	0.784	1.387	1.087	0.680
1 852.4	9262	RMC	MAIN1	20.5	19.48	Bottom	1:1	10	0	0.819	1.265	1.036	0.648
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram					

LTE FDD Band 12 BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Rear	0	1	49	1:1	10	0.317	1.416	0.449	0.281
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Rear	1	25	24	1:1	10	0.261	1.803	0.471	**0.294**
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Front	0	1	49	1:1	10	0.190	1.416	0.269	0.168
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Front	1	25	24	1:1	10	0.150	1.803	0.270	0.169
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Left	0	1	49	1:1	10	0.163	1.416	0.231	0.144
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Left	1	25	24	1:1	10	0.124	1.803	0.224	0.140
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Right	0	1	49	1:1	10	0.081	1.416	0.115	0.072
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Right	1	25	24	1:1	10	0.060	1.803	0.108	0.068
707.5	23095	QPSK	MAIN1	10	25.0	23.49	Bottom	0	1	49	1:1	10	0.092	1.416	0.130	0.081
707.5	23095	QPSK	MAIN1	10	25.0	22.44	Bottom	1	25	24	1:1	10	0.075	1.803	0.135	0.085
707.5	23095	QPSK	SUB1	10	21.0	19.65	Rear	0	1	0	1:1	10	0.213	1.365	0.291	0.182
707.5	23095	QPSK	SUB1	10	21.0	19.56	Rear	0	25	24	1:1	10	0.234	1.393	0.326	0.204
707.5	23095	QPSK	SUB1	10	21.0	19.65	Front	0	1	0	1:1	10	0.165	1.365	0.225	0.141
707.5	23095	QPSK	SUB1	10	21.0	19.56	Front	0	25	24	1:1	10	0.180	1.393	0.251	0.157
707.5	23095	QPSK	SUB1	10	21.0	19.65	Right	0	1	0	1:1	10	0.112	1.365	0.153	0.096
707.5	23095	QPSK	SUB1	10	21.0	19.56	Right	0	25	24	1:1	10	0.120	1.393	0.167	0.104
707.5	23095	QPSK	SUB1	10	21.0	19.65	Top	0	1	0	1:1	10	0.163	1.365	0.222	0.139
707.5	23095	QPSK	SUB1	10	21.0	19.56	Top	0	25	24	1:1	10	0.182	1.393	0.254	0.158
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

LTE FDD Band 13 BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
782	23230	QPSK	MAIN1	10	25.0	23.83	Rear	0	1	24	1:1	10	0.193	1.309	0.253	0.158
782	23230	QPSK	MAIN1	10	25.0	22.83	Rear	1	25	0	1:1	10	0.148	1.648	0.244	0.152
782	23230	QPSK	MAIN1	10	25.0	23.83	Front	0	1	24	1:1	10	0.128	1.309	0.168	0.105
782	23230	QPSK	MAIN1	10	25.0	22.83	Front	1	25	0	1:1	10	0.100	1.648	0.165	0.103
782	23230	QPSK	MAIN1	10	25.0	23.83	Left	0	1	24	1:1	10	0.250	1.309	0.327	**0.205**
782	23230	QPSK	MAIN1	10	25.0	22.83	Left	1	25	0	1:1	10	0.191	1.648	0.315	0.197
782	23230	QPSK	MAIN1	10	25.0	23.83	Right	0	1	24	1:1	10	0.130	1.309	0.170	0.106
782	23230	QPSK	MAIN1	10	25.0	22.83	Right	1	25	0	1:1	10	0.100	1.648	0.165	0.103
782	23230	QPSK	MAIN1	10	25.0	23.83	Bottom	0	1	24	1:1	10	0.056	1.309	0.073	0.046
782	23230	QPSK	MAIN1	10	25.0	22.83	Bottom	1	25	0	1:1	10	0.044	1.648	0.073	0.045
782	23230	QPSK	SUB1	10	21.0	19.95	Rear	0	1	24	1:1	10	0.173	1.274	0.220	0.138
782	23230	QPSK	SUB1	10	21.0	19.91	Rear	0	25	0	1:1	10	0.171	1.285	0.220	0.137
782	23230	QPSK	SUB1	10	21.0	19.95	Front	0	1	24	1:1	10	0.121	1.274	0.154	0.096
782	23230	QPSK	SUB1	10	21.0	19.91	Front	0	25	0	1:1	10	0.116	1.285	0.149	0.093
782	23230	QPSK	SUB1	10	21.0	19.95	Right	0	1	24	1:1	10	0.129	1.274	0.164	0.103
782	23230	QPSK	SUB1	10	21.0	19.91	Right	0	25	0	1:1	10	0.129	1.285	0.166	0.104
782	23230	QPSK	SUB1	10	21.0	19.95	Top	0	1	24	1:1	10	0.140	1.274	0.178	0.111
782	23230	QPSK	SUB1	10	21.0	19.91	Top	0	25	0	1:1	10	0.134	1.285	0.172	0.108
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

LTE FDD Band 25 (PCS) BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
1860	26140	QPSK	MAIN1	20	20.5	20.15	Rear	0	1	99	1:1	10	0.499	1.084	0.541	0.338
1860	26140	QPSK	MAIN1	20	20.5	20.07	Rear	0	50	0	1:1	10	0.510	1.104	0.563	0.352
1860	26140	QPSK	MAIN1	20	20.5	20.15	Front	0	1	99	1:1	10	0.384	1.084	0.416	0.260
1860	26140	QPSK	MAIN1	20	20.5	20.07	Front	0	50	0	1:1	10	0.392	1.104	0.433	0.270
1860	26140	QPSK	MAIN1	20	20.5	20.15	Left	0	1	99	1:1	10	0.102	1.084	0.111	0.069
1860	26140	QPSK	MAIN1	20	20.5	20.07	Left	0	50	0	1:1	10	0.098	1.104	0.108	0.068
1860	26140	QPSK	MAIN1	20	20.5	20.15	Right	0	1	99	1:1	10	0.064	1.084	0.069	0.043
1860	26140	QPSK	MAIN1	20	20.5	20.07	Right	0	50	0	1:1	10	0.062	1.104	0.068	0.043
1860	26140	QPSK	MAIN1	20	20.5	20.15	Bottom	0	1	99	1:1	10	0.977	1.084	1.059	0.662
1882.5	26365	QPSK	MAIN1	20	20.5	20.00	Bottom	0	1	0	1:1	10	0.992	1.122	1.113	0.696
1905	26590	QPSK	MAIN1	20	20.5	19.89	Bottom	0	1	99	1:1	10	0.986	1.151	1.135	**0.709**
1860	26140	QPSK	MAIN1	20	20.5	20.07	Bottom	0	50	0	1:1	10	0.909	1.104	1.004	0.627
1882.5	26365	QPSK	MAIN1	20	20.5	19.94	Bottom	0	50	0	1:1	10	0.931	1.138	1.059	0.662
1905	26590	QPSK	MAIN1	20	20.5	19.86	Bottom	0	50	25	1:1	10	0.940	1.159	1.089	0.681
1860	26140	QPSK	MAIN1	20	20.5	19.97	Bottom	0	100	0	1:1	10	0.902	1.130	1.019	0.637
1882.5	26365	QPSK	MAIN1	20	20.5	20.00	Bottom	0	1	0	1:1	10	0.954	1.122	1.070	0.669
1 905	26590	QPSK	SUB2	20	17.5	17.17	Rear	0	1	99	1:1	10	0.217	1.079	0.234	0.146
1 905	26590	QPSK	SUB2	20	17.5	17.10	Rear	0	50	49	1:1	10	0.209	1.096	0.229	0.143
1 905	26590	QPSK	SUB2	20	17.5	17.17	Front	0	1	99	1:1	10	0.185	1.079	0.200	0.125
1 905	26590	QPSK	SUB2	20	17.5	17.10	Front	0	50	49	1:1	10	0.181	1.096	0.198	0.124
1 905	26590	QPSK	SUB2	20	17.5	17.17	Left	0	1	99	1:1	10	0.087	1.079	0.094	0.059
1 905	26590	QPSK	SUB2	20	17.5	17.10	Left	0	50	49	1:1	10	0.080	1.096	0.088	0.055
1 905	26590	QPSK	SUB2	20	17.5	17.17	Top	0	1	99	1:1	10	0.398	1.079	0.429	0.268
1 905	26590	QPSK	SUB2	20	17.5	17.10	Top	0	50	49	1:1	10	0.405	1.096	0.444	0.277
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

LTE FDD Band 26 (Cell) BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Rear	0	1	0	1:1	10	0.431	1.592	0.686	**0.429**
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Rear	1	36	0	1:1	10	0.312	2.143	0.669	0.418
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Front	0	1	0	1:1	10	0.308	1.592	0.490	0.306
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Front	1	36	0	1:1	10	0.235	2.143	0.504	0.315
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Left	0	1	0	1:1	10	0.236	1.592	0.376	0.235
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Left	1	36	0	1:1	10	0.195	2.143	0.418	0.261
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Right	0	1	0	1:1	10	0.173	1.592	0.275	0.172
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Right	1	36	0	1:1	10	0.147	2.143	0.315	0.197
831.5	26865	QPSK	MAIN1	15	26.0	23.98	Bottom	0	1	0	1:1	10	0.053	1.592	0.084	0.053
831.5	26865	QPSK	MAIN1	15	26.0	22.69	Bottom	1	36	0	1:1	10	0.037	2.143	0.079	0.050
831.5	26865	QPSK	SUB1	15	20.0	18.51	Rear	0	1	0	1:1	10	0.149	1.409	0.210	0.131
831.5	26865	QPSK	SUB1	15	20.0	18.47	Rear	0	36	0	1:1	10	0.158	1.422	0.225	0.140
831.5	26865	QPSK	SUB1	15	20.0	18.51	Front	0	1	0	1:1	10	0.096	1.409	0.135	0.085
831.5	26865	QPSK	SUB1	15	20.0	18.47	Front	0	36	0	1:1	10	0.101	1.422	0.144	0.090
831.5	26865	QPSK	SUB1	15	20.0	18.51	Right	0	1	0	1:1	10	0.129	1.409	0.182	0.114
831.5	26865	QPSK	SUB1	15	20.0	18.47	Right	0	36	0	1:1	10	0.126	1.422	0.179	0.112
831.5	26865	QPSK	SUB1	15	20.0	18.51	Top	0	1	0	1:1	10	0.117	1.409	0.165	0.103
831.5	26865	QPSK	SUB1	15	20.0	18.47	Top	0	36	0	1:1	10	0.102	1.422	0.145	0.091
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

LTE TDD Band 41 (Power Class 3) BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
2 593	40620	QPSK	MAIN2	20	23.0	22.35	Rear	0	1	49	1:1.58	10	0.345	1.161	0.401	0.250
2 593	40620	QPSK	MAIN2	20	23.0	22.33	Rear	0	50	0	1:1.58	10	0.345	1.167	0.403	0.252
2 593	40620	QPSK	MAIN2	20	23.0	22.35	Front	0	1	49	1:1.58	10	0.223	1.161	0.259	0.162
2 593	40620	QPSK	MAIN2	20	23.0	22.33	Front	0	50	0	1:1.58	10	0.218	1.167	0.254	0.159
2 593	40620	QPSK	MAIN2	20	23.0	22.35	Left	0	1	49	1:1.58	10	0.180	1.161	0.209	0.131
2 593	40620	QPSK	MAIN2	20	23.0	22.33	Left	0	50	0	1:1.58	10	0.173	1.167	0.202	0.126
2 593	40620	QPSK	MAIN2	20	23.0	22.35	Bottom	0	1	49	1:1.58	10	0.214	1.161	0.248	0.155
2 593	40620	QPSK	MAIN2	20	23.0	22.33	Bottom	0	50	0	1:1.58	10	0.217	1.167	0.253	0.158
2 593	40620	QPSK	MAIN2	20	25.0	23.91	Rear	0	50	0	1:2.31	10	0.191	1.285	0.245	0.153
2 680	41490	QPSK	SUB2	20	23.0	21.73	Rear	0	1	49	1:1.58	10	0.253	1.064	0.339	0.212
2 680	41490	QPSK	SUB2	20	23.0	21.76	Rear	0	50	0	1:1.58	10	0.240	1.057	0.319	0.200
2 680	41490	QPSK	SUB2	20	23.0	21.73	Front	0	1	49	1:1.58	10	0.210	1.064	0.281	0.176
2 680	41490	QPSK	SUB2	20	23.0	21.76	Front	0	50	0	1:1.58	10	0.200	1.057	0.266	0.166
2 680	41490	QPSK	SUB2	20	23.0	21.73	Left	0	1	49	1:1.58	10	0.035	1.064	0.047	0.029
2 680	41490	QPSK	SUB2	20	23.0	21.76	Left	0	50	0	1:1.58	10	0.032	1.057	0.043	0.027
2 680	41490	QPSK	SUB2	20	23.0	21.73	Top	0	1	49	1:1.58	10	0.365	1.064	0.489	**0.306**
2 680	41490	QPSK	SUB2	20	23.0	21.76	Top	0	50	0	1:1.58	10	0.365	1.057	0.485	0.303
2 680	41490	QPSK	SUB2	20	24.0	23.27	Top	0	1	49	1:2.31	10	0.325	1.096	0.384	0.240
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

LTE FDD Band 66 (AWS) BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
1 720	132072	QPSK	MAIN1	20	19.0	17.76	Rear	0	1	49	1:1	10	0.304	1.330	0.404	0.253
1 770	132572	QPSK	MAIN1	20	19.0	17.78	Rear	0	50	0	1:1	10	0.329	1.324	0.436	0.272
1 720	132072	QPSK	MAIN1	20	19.0	17.76	Front	0	1	49	1:1	10	0.224	1.330	0.298	0.186
1 770	132572	QPSK	MAIN1	20	19.0	17.78	Front	0	50	0	1:1	10	0.252	1.324	0.334	0.209
1 720	132072	QPSK	MAIN1	20	19.0	17.76	Left	0	1	49	1:1	10	0.086	1.330	0.114	0.071
1 770	132572	QPSK	MAIN1	20	19.0	17.78	Left	0	50	0	1:1	10	0.086	1.324	0.114	0.071
1 720	132072	QPSK	MAIN1	20	19.0	17.76	Right	0	1	49	1:1	10	0.036	1.330	0.048	0.030
1 770	132572	QPSK	MAIN1	20	19.0	17.78	Right	0	50	0	1:1	10	0.037	1.324	0.049	0.031
1 720	132072	QPSK	MAIN1	20	19.0	17.76	Bottom	0	1	49	1:1	10	0.528	1.330	0.702	**0.439**
1 770	132572	QPSK	MAIN1	20	19.0	17.78	Bottom	0	50	0	1:1	10	0.523	1.324	0.692	0.433
1 720	132072	QPSK	SUB1	20	17.5	16.45	Rear	0	1	0	1:1	10	0.120	1.274	0.153	0.096
1 720	132072	QPSK	SUB1	20	17.5	16.42	Rear	0	50	0	1:1	10	0.094	1.282	0.121	0.075
1 720	132072	QPSK	SUB1	20	17.5	16.45	Front	0	1	0	1:1	10	0.097	1.274	0.124	0.077
1 720	132072	QPSK	SUB1	20	17.5	16.42	Front	0	50	0	1:1	10	0.097	1.282	0.124	0.078
1 720	132072	QPSK	SUB1	20	17.5	16.45	Left	0	1	0	1:1	10	0.046	1.274	0.059	0.037
1 720	132072	QPSK	SUB1	20	17.5	16.42	Left	0	50	0	1:1	10	0.046	1.282	0.059	0.037
1 720	132072	QPSK	SUB1	20	17.5	16.45	Top	0	1	0	1:1	10	0.204	1.274	0.260	0.162
1 720	132072	QPSK	SUB1	20	17.5	16.42	Top	0	50	0	1:1	10	0.201	1.282	0.258	0.161
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

NR FDD Band n5 BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Rear	0	1	1	1:1	10	0.153	1.274	0.195	0.122
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Rear	0	50	28	1:1	10	0.161	1.276	0.205	0.128
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Front	0	1	1	1:1	10	0.149	1.274	0.190	0.119
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Front	0	50	28	1:1	10	0.147	1.276	0.188	0.117
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Left	0	1	1	1:1	10	0.146	1.274	0.186	0.116
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Left	0	50	28	1:1	10	0.155	1.276	0.198	0.124
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Right	0	1	1	1:1	10	0.152	1.274	0.194	0.121
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Right	0	50	28	1:1	10	0.144	1.276	0.184	0.115
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.95	Bottom	0	1	1	1:1	10	0.031	1.274	0.039	0.025
836.5	167300	DFT-s OFDM QPSK	MAIN1	20	25.0	23.94	Bottom	0	50	28	1:1	10	0.034	1.276	0.043	0.027
836.5	167300	CP QPSK	MAIN1	20	25.0	22.52	Rear	1.5	1	1	1:1	10	0.127	1.770	0.225	0.140
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Rear	0	1	1	1:1	10	0.182	1.327	0.242	0.151
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Rear	0	50	28	1:1	10	0.176	1.312	0.231	0.144
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Front	0	1	1	1:1	10	0.137	1.327	0.182	0.114
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Front	0	50	28	1:1	10	0.133	1.312	0.174	0.109
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Right	0	1	1	1:1	10	0.185	1.327	0.245	0.153
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Right	0	50	28	1:1	10	0.197	1.312	0.258	**0.162**
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.77	Top	0	1	1	1:1	10	0.155	1.327	0.206	0.129
836.5	167300	DFT-s OFDM QPSK	SUB1	20	21.0	19.82	Top	0	50	28	1:1	10	0.152	1.312	0.199	0.125
836.5	167300	CP QPSK	SUB1	20	21.0	19.97	Right	0	1	1	1:1	10	0.192	1.268	0.243	0.152
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram								

NR FDD Band n25 BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.46	Rear	0	1	1	0	10	0.441	1.271	0.561	0.350
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.45	Rear	0	50	28	0	10	0.439	1.274	0.559	0.350
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.46	Front	0	1	1	0	10	0.408	1.271	0.519	0.324
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.45	Front	0	50	28	0	10	0.417	1.274	0.531	0.332
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.46	Left	0	1	1	0	10	0.094	1.271	0.119	0.075
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.45	Left	0	50	28	0	10	0.096	1.274	0.122	0.076
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.46	Right	0	1	1	0	10	0.060	1.271	0.076	0.048
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.45	Right	0	50	28	0	10	0.061	1.274	0.078	0.049
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.46	Bottom	0	1	1	0	10	0.827	1.271	1.051	0.657
1 882.5	376500	DFT-s OFDM QPSK	MAIN1	20	20.5	19.38	Bottom	0	1	104	0	10	0.818	1.294	1.058	0.662
1 905	381000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.61	Bottom	0	1	104	0	10	0.775	1.227	0.951	0.594
1 860	372000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.45	Bottom	0	50	28	0	10	0.867	1.274	1.105	0.690
1 882.5	376500	DFT-s OFDM QPSK	MAIN1	20	20.5	19.28	Bottom	0	50	0	0	10	0.845	1.324	1.119	**0.699**
1 905	381000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.32	Bottom	0	50	56	0	10	0.787	1.312	1.033	0.645
1 905	381000	DFT-s OFDM QPSK	MAIN1	20	20.5	19.36	Bottom	0	100	0	0	10	0.789	1.300	1.026	0.641
1 860	372000	CP QPSK	MAIN1	20	20.5	19.64	Bottom	0	1	1	0	10	0.844	1.219	1.029	0.643
1 882.5	376500	CP QPSK	MAIN1	20	20.5	19.56	Bottom	0	1	1	0	10	0.869	1.242	1.079	0.675
1 905	381000	CP QPSK	MAIN1	20	20.5	19.46	Bottom	0	1	1	0	10	0.823	1.271	1.046	0.654
1 882.5	376500	CP QPSK	MAIN1	20	20.5	19.56	Bottom	0	1	1	0	10	0.865	1.242	1.074	0.671
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.18	Rear	0	1	104	1:1	10	0.229	1.208	0.277	0.173
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.15	Rear	0	50	28	1:1	10	0.231	1.216	0.281	0.176
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.18	Front	0	1	104	1:1	10	0.120	1.208	0.145	0.091
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.15	Front	0	50	28	1:1	10	0.122	1.216	0.148	0.093
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.18	Left	0	1	104	1:1	10	0.054	1.208	0.065	0.041
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.15	Left	0	50	28	1:1	10	0.045	1.216	0.055	0.034
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.18	Top	0	1	104	1:1	10	0.368	1.208	0.445	0.278
1 860	372000	DFT-s OFDM QPSK	SUB2	20	21.0	20.15	Top	0	50	28	1:1	10	0.393	1.216	0.478	0.299
1 860	372000	CP QPSK	SUB2	20	21.0	20.22	Top	0	1	1	1:1	10	0.383	1.197	0.458	0.287
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

NR TDD Band n41 (Power Class 3) BodyWorn/Hotspot SAR																
Frequency		Mode	Ant	Band width	EFSLimit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Rear	0	1	1	1:1	10	0.191	1.130	0.216	0.135
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Rear	0	135	0	1:1	10	0.140	1.130	0.158	0.099
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Front	0	1	1	1:1	10	0.148	1.130	0.167	0.105
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Front	0	135	0	1:1	10	0.135	1.130	0.153	0.095
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Left	0	1	1	1:1	10	0.032	1.130	0.036	0.023
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Left	0	135	0	1:1	10	0.028	1.130	0.032	0.020
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Top	0	1	1	1:1	10	0.237	1.130	0.268	0.167
2 592.99	518598	DFT-s OFDM QPSK	SUB2	100	17.0	16.47	Top	0	135	0	1:1	10	0.224	1.130	0.253	0.158
2 592.99	518598	CP QPSK	SUB2	100	17.0	16.72	Rear	0	1	1	1:1	10	0.278	1.067	0.297	**0.185**
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.50	Rear	0	1	271	1:1	10	0.073	1.122	0.082	0.051
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.49	Rear	0	135	138	1:1	10	0.079	1.125	0.089	0.056
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.50	Front	0	1	271	1:1	10	0.049	1.122	0.055	0.034
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.49	Front	0	135	138	1:1	10	0.067	1.125	0.075	0.047
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.50	Left	0	1	271	1:1	10	0.085	1.122	0.095	0.060
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.49	Left	0	135	138	1:1	10	0.093	1.125	0.105	0.065
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.50	Bottom	0	1	271	1:1	10	0.112	1.122	0.126	0.079
2 592.99	518598	DFT-s OFDM QPSK	MAIN2	100	17.0	16.49	Bottom	0	135	138	1:1	10	0.133	1.125	0.150	0.094
2 592.99	518598	CP QPSK	MAIN2	100	17.0	16.74	Bottom	0	1	1	1:1	10	0.194	1.062	0.206	0.129
2 592.99	518598	CW SRS #3	SUB1	100	16.5	16.10	Rear	0	-	-	1:1	10	0.065	1.096	0.071	0.045
2 592.99	518598	CW SRS #3	SUB1	100	16.5	16.10	Front	0	-	-	1:1	10	0.071	1.096	0.078	0.049
2 592.99	518598	CW SRS #3	SUB1	100	16.5	16.10	Right	0	-	-	1:1	10	0.047	1.096	0.052	0.032
2 592.99	518598	CW SRS #3	SUB1	100	16.5	16.10	Top	0	-	-	1:1	10	0.087	1.096	0.095	0.060
2 592.99	518598	CW SRS #4	MAIN4	100	16.0	14.80	Rear	0	-	-	1:1	10	0.144	1.318	0.190	0.119
2 592.99	518598	CW SRS #4	MAIN4	100	16.0	14.80	Front	0	-	-	1:1	10	0.019	1.318	0.025	0.016
2 592.99	518598	CW SRS #4	MAIN4	100	16.0	14.80	Right	0	-	-	1:1	10	0.003	1.318	0.004	0.002
2 592.99	518598	CW SRS #4	MAIN4	100	16.0	14.80	Bottom	0	-	-	1:1	10	0.068	1.318	0.090	0.056
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram			

NR FDD Band n66 Body BodyWorn/ Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.54	Rear	0	1	108	1:1	10	0.457	1.247	0.570	0.356
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.55	Rear	0	108	0	1:1	10	0.463	1.245	0.576	0.360
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.54	Front	0	1	108	1:1	10	0.419	1.247	0.522	0.327
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.55	Front	0	108	0	1:1	10	0.421	1.245	0.524	0.328
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.54	Left	0	1	108	1:1	10	0.121	1.247	0.151	0.094
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.55	Left	0	108	0	1:1	10	0.125	1.245	0.156	0.097
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.54	Right	0	1	108	1:1	10	0.052	1.247	0.065	0.041
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.55	Right	0	108	0	1:1	10	0.055	1.245	0.068	0.043
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.54	Bottom	0	1	108	1:1	10	0.702	1.247	0.875	0.547
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.55	Bottom	0	108	0	1:1	10	0.709	1.245	0.883	0.552
1745	349000	DFT-s OFDM QPSK	MAIN1	40	20.5	19.42	Bottom	0	216	0	1:1	10	0.716	1.282	0.918	**0.574**
1745	349000	CP OFDM QPSK	MAIN1	40	20.5	19.72	Bottom	0	1	1	1:1	10	0.679	1.197	0.813	0.508
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.80	Rear	0	1	1	1:1	10	0.221	1.318	0.291	0.182
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.61	Rear	0	108	0	1:1	10	0.200	1.377	0.275	0.172
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.80	Front	0	1	1	1:1	10	0.141	1.318	0.186	0.116
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.61	Front	0	108	0	1:1	10	0.129	1.377	0.178	0.111
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.80	Left	0	1	1	1:1	10	0.099	1.318	0.130	0.082
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.61	Left	0	108	0	1:1	10	0.095	1.377	0.131	0.082
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.80	Top	0	1	1	1:1	10	0.338	1.318	0.445	0.278
1745	349000	DFT-s OFDM QPSK	SUB2	40	21.0	19.61	Top	0	108	0	1:1	10	0.327	1.377	0.450	0.281
1745	349000	CP OFDM QPSK	SUB2	40	21.0	20.02	Top	0	1	1	1:1	10	0.341	1.253	0.427	0.267
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

NR TDD Band n77 (Power Class 2) BodyWorn/Hotspot SAR																
Frequency		Mode	Ant.	Band width	EFS Limit	Meas. Power	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(dBm)	(dBm)		(dB)				(mm)	(W/kg)		(W/kg)	
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	18.0	17.60	Rear	0	1	271	1:1	10	0.527	1.096	0.578	0.361
3 750.00	650000	DFT-s OFDM QPSK	SUB2	100	18.0	17.06	Rear	0	1	271	1:1	10	0.584	1.242	0.725	**0.453**
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	18.0	17.61	Rear	0	135	69	1:1	10	0.553	1.094	0.605	0.378
3 750.00	650000	DFT-s OFDM QPSK	SUB2	100	18.0	17.00	Rear	0	135	69	1:1	10	0.479	1.259	0.603	0.377
3 930.00	662000	DFT-s OFDM QPSK	SUB2	100	18.0	17.11	Rear	0	270	0	1:1	10	0.540	1.227	0.663	0.414
3 930.00	662000	DFT-s QPSK	F	100	18.0	17.60	Front	0	1	271	1:1	10	0.076	1.096	0.083	0.052
3 930.00	662000	DFT-s QPSK	F	100	18.0	17.61	Front	0	135	138	1:1	10	0.091	1.094	0.100	0.062
3 930.00	662000	DFT-s QPSK	F	100	18.0	17.60	Left	0	1	271	1:1	10	0.061	1.096	0.067	0.042
3 930.00	662000	DFT-s QPSK	F	100	18.0	17.61	Left	0	135	138	1:1	10	0.071	1.094	0.078	0.049
3 930.00	662000	DFT-s QPSK	F	100	18.0	17.60	Top	0	1	271	1:1	10	0.101	1.096	0.111	0.069
3 930.00	662000	DFT-s QPSK	F	100	18.0	17.61	Top	0	135	138	1:1	10	0.118	1.094	0.129	0.081
3 930.00	662000	CP QPSK	F	100	18.0	17.33	Rear	0	1	1	1:1	10	0.613	1.167	0.715	0.447
3 750.00	650000	CP QPSK	F	100	18.0	16.82	Rear	0	1	1	1:1	10	0.390	1.312	0.512	0.320
3 500.01	633334	DFT-s OFDM QPSK	SUB2	100	100	18.0	Rear	0	135	69	1:1	10	0.286	1.091	0.312	0.195
3 930.00	662000	CW SRS #2	MAIN3	100	13.0	12.76	Rear	0	-	-	1:1	10	0.009	1.057	0.010	0.006
3 930.00	662000	CW SRS #2	MAIN3	100	13.0	12.76	Front	0	-	-	1:1	10	0.011	1.057	0.012	0.007
3 930.00	662000	CW SRS #2	MAIN3	100	13.0	12.76	Left	0	-	-	1:1	10	0.022	1.057	0.023	0.015
3 930.00	662000	CW SRS #2	MAIN3	100	13.0	12.76	Bottom	0	-	-	1:1	10	0.004	1.057	0.004	0.003
3 500.01	633334	CW SRS #2	MAIN3	100	13.0	12.06	Left	0	-	-	1:1	10	0.024	1.242	0.030	0.019
3 930.00	662000	CW SRS #3	SUB5	100	16.0	15.77	Rear	0	-	-	1:1	10	0.031	1.054	0.033	0.020
3 930.00	662000	CW SRS #3	SUB5	100	16.0	15.77	Front	0	-	-	1:1	10	0.052	1.054	0.055	0.034
3 930.00	662000	CW SRS #3	SUB5	100	16.0	15.77	Left	0	-	-	1:1	10	0.024	1.054	0.025	0.016
3 500.01	633334	CW SRS #3	SUB5	100	16.0	14.33	Front	0	-	-	1:1	10	0.048	1.469	0.071	0.044
3 930.00	662000	CW SRS #4	MAIN4	100	13.0	12.36	Rear	0	-	-	1:1	10	0.076	1.159	0.088	0.055
3 930.00	662000	CW SRS #4	MAIN4	100	13.0	12.36	Front	0	-	-	1:1	10	0	1.159	0.000	0.000
3 930.00	662000	CW SRS #4	MAIN4	100	13.0	12.36	Right	0	-	-	1:1	10	0.003	1.159	0.003	0.002
3 930.00	662000	CW SRS #4	MAIN4	100	13.0	12.36	Bottom	0	-	-	1:1	10	0.004	1.159	0.005	0.003
3 500.01	633334	CW SRS #4	MAIN4	100	13.0	12.20	Rear	0	-	-	1:1	10	0.064	1.202	0.077	0.048
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram							

DTS BodyWorn/Hotspot SAR															
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(mm)	(W/kg)	(W/kg)		(Duty)	(W/kg)	
2 462	11	802.11b	SUB4	20	1	18.0	17.61	Rear	98.7	10	0.239	0.204	1.094	1.013	0.226	0.141
2 462	11	802.11b	SUB4	20	1	18.0	17.61	Front	98.7	10	0.208	0.169	1.094	1.013	0.187	0.117
2 462	11	802.11b	SUB4	20	1	18.0	17.61	Left	98.7	10	0.381	0.296	1.094	1.013	0.328	0.205
2 462	11	802.11b	SUB4	20	1	18.0	17.61	Top	98.7	10	0.185	0.145	1.094	1.013	0.161	0.100
2 437	6	802.11b	SUB6	20	1	18.0	17.43	Rear	98.7	10	0.657	0.551	1.140	1.013	0.636	**0.398**
2 437	6	802.11b	SUB6	20	1	18.0	17.43	Front	98.7	10	0.213	0.174	1.140	1.013	0.201	0.126
2 437	6	802.11b	SUB6	20	1	18.0	17.43	Right	98.7	10	0.088	0.060	1.140	1.013	0.069	0.043
2 437	6	802.11b	SUB6	20	1	18.0	17.43	Top	98.7	10	0.009	0.007	1.140	1.013	0.008	0.005
2 462	11	802.11b	SUB4+6	20	1	18.0	17.00	Rear	98.7	10	0.474	0.387	1.259	1.013	0.494	0.309
2 462	11	802.11b	SUB4+6	20	1	18.0	17.00	Front	98.7	10	0.297	0.239	1.259	1.013	0.305	0.191
2 462	11	802.11b	SUB4+6	20	1	18.0	17.00	Left	98.7	10	0.417	0.331	1.259	1.013	0.422	0.264
2 462	11	802.11b	SUB4+6	20	1	18.0	17.00	Right	98.7	10	0.105	0.083	1.259	1.013	0.106	0.066
2 462	11	802.11b	SUB4+6	20	1	18.0	17.00	Top	98.7	10	0.156	0.122	1.259	1.013	0.156	0.097

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram

5 GHz WLAN BodyWorn/Hotspot SAR															
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(mm)	(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 280	56	802.11a	SUB4	20	6	17.0	16.30	Rear	93.7	10	0.822	0.394	1.175	1.067	0.494	0.309
5 280	56	802.11a	SUB4	20	6	17.0	16.30	Front	93.7	10	0.331	0.157	1.175	1.067	0.197	0.123
5 500	100	802.11a	SUB4	20	6	17.0	15.37	Rear	93.7	10	0.612	0.261	1.455	1.067	0.405	0.253
5 500	100	802.11a	SUB4	20	6	17.0	15.37	Front	93.7	10	0.266	0.107	1.455	1.067	0.166	0.104
5 745	149	802.11a	SUB4	20	6	17.0	15.37	Rear	93.7	10	0.767	0.314	1.455	1.067	0.488	0.305
5 745	149	802.11a	SUB4	20	6	17.0	15.37	Front	93.7	10	0.251	0.109	1.455	1.067	0.169	0.106
5 745	149	802.11a	SUB4	20	6	17.0	15.37	Left	93.7	10	0.835	0.351	1.455	1.067	0.545	0.341
5 745	149	802.11a	SUB4	20	6	17.0	15.37	Top	93.7	10	0.268	0.091	1.455	1.067	0.141	0.088
5 885	177	802.11a	SUB4	20	6	17.0	15.71	Rear	93.7	10	0.842	0.355	1.346	1.067	0.510	0.319
5 885	177	802.11a	SUB4	20	6	17.0	15.71	Front	93.7	10	0.264	0.085	1.346	1.067	0.122	0.076
5 260	52	802.11a	SUB1	20	6	17.0	15.26	Rear	93.7	10	0.638	0.272	1.493	1.067	0.433	0.271
5 260	52	802.11a	SUB1	20	6	17.0	15.26	Front	93.7	10	0.135	0.036	1.493	1.067	0.057	0.036
5 720	144	802.11a	SUB1	20	6	17.0	15.09	Rear	93.7	10	0.533	0.222	1.552	1.067	0.368	0.230
5 720	144	802.11a	SUB1	20	6	17.0	15.09	Front	93.7	10	0.0956	0.043	1.552	1.067	0.071	0.045
5 825	165	802.11a	SUB1	20	6	17.0	15.08	Rear	93.7	10	0.583	0.229	1.556	1.067	0.380	0.238
5 825	165	802.11a	SUB1	20	6	17.0	15.08	Front	93.7	10	0.153	0.038	1.556	1.067	0.063	0.039
5 825	165	802.11a	SUB1	20	6	17.0	15.08	Right	93.7	10	0.0762	0.031	1.556	1.067	0.051	0.032
5 825	165	802.11a	SUB1	20	6	17.0	15.08	Top	93.7	10	0.221	0.092	1.556	1.067	0.153	0.095
5 845	169	802.11a	SUB1	20	6	17.0	15.08	Rear	93.7	10	0.618	0.244	1.556	1.067	0.405	0.253
5 845	169	802.11a	SUB1	20	6	17.0	15.08	Front	93.7	10	0.093	0.040	1.556	1.067	0.066	0.042
5 280	56	802.11a	SUB4+1	20	6	17.0	15.26	Rear	93.7	10	0.837	0.358	1.493	1.067	0.570	0.357
5 280	56	802.11a	SUB4+1	20	6	17.0	15.26	Front	93.7	10	0.379	0.166	1.493	1.067	0.265	0.165
5 500	100	802.11a	SUB4+1	20	6	17.0	15.03	Rear	93.7	10	0.938	0.390	1.552	1.067	0.646	0.404
5 500	100	802.11a	SUB4+1	20	6	17.0	15.03	Front	93.7	10	0.238	0.112	1.552	1.067	0.186	0.116
5 745	149	802.11a	SUB4+1	20	6	17.0	15.06	Rear	93.7	10	1	0.414	1.563	1.067	0.691	0.432
5 745	149	802.11a	SUB4+1	20	6	17.0	15.06	Front	93.7	10	0.254	0.119	1.563	1.067	0.199	0.124
5 745	149	802.11a	SUB4+1	20	6	17.0	15.06	Left	93.7	10	0.838	0.339	1.563	1.067	0.565	0.353
5 745	149	802.11a	SUB4+1	20	6	17.0	15.06	Right	93.7	10	0.0742	0.037	1.563	1.067	0.062	0.039
5 745	149	802.11a	SUB4+1	20	6	17.0	15.06	Top	93.7	10	0.388	0.147	1.563	1.067	0.245	0.153
5 885	177	802.11a	SUB4+1	20	6	17.0	15.01	Rear	93.7	10	1.03	0.410	1.581	1.067	0.692	**0.432**
5 885	177	802.11a	SUB4+1	20	6	17.0	15.01	Front	93.7	10	0.212	0.093	1.581	1.067	0.157	0.098
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram						

6 GHz WLAN BodyWorn/Hotspot SAR															
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(mm)	(W/kg)		(Duty)	(W/kg)	
6 185	47	802.11ax	SUB4	160	MCS0	10.5	10.31	Rear	100	10	0.050	1.045	1.000	0.052	0.033
6 185	47	802.11ax	SUB4	160	MCS0	10.5	10.31	Front	100	10	0.024	1.045	1.000	0.025	0.016
6 185	47	802.11ax	SUB4	160	MCS0	10.5	10.31	Left	100	10	0.101	1.045	1.000	0.106	0.066
6 185	47	802.11ax	SUB4	160	MCS0	10.5	10.31	Top	100	10	0.013	1.045	1.000	0.014	0.008
6 025	15	802.11ax	SUB4	160	MCS0	10.5	9.64	Left	100	10	0.065	1.219	1.000	0.079	0.050
6 665	143	802.11ax	SUB4	160	MCS0	10.5	9.51	Left	100	10	0.126	1.256	1.000	0.158	**0.099**
6 505	111	802.11ax	SUB4	160	MCS0	10.5	9.27	Rear	100	10	0.031	1.327	1.000	0.041	0.026
6 505	111	802.11ax	SUB4	160	MCS0	10.5	9.27	Front	100	10	0.023	1.327	1.000	0.031	0.019
6 025	15	802.11ax	SUB1	160	MCS0	10.5	10.30	Rear	100	10	0.078	1.047	1.000	0.082	0.051
6 025	15	802.11ax	SUB1	160	MCS0	10.5	10.30	Front	100	10	0	1.047	1.000	0.000	0.000
6 025	15	802.11ax	SUB1	160	MCS0	10.5	10.30	Right	100	10	0	1.047	1.000	0.000	0.000
6 025	15	802.11ax	SUB1	160	MCS0	10.5	10.30	Top	100	10	0.028	1.047	1.000	0.029	0.018
6 185	47	802.11ax	SUB1	160	MCS0	10.5	10.13	Rear	100	10	0.070	1.089	1.000	0.076	0.048
6 665	143	802.11ax	SUB1	160	MCS0	10.5	10.00	Rear	100	10	0.008	1.122	1.000	0.009	0.006
6 985	207	802.11ax	SUB1	160	MCS0	10.5	9.67	Rear	100	10	0.004	1.211	1.000	0.005	0.003
6 985	207	802.11ax	SUB1	160	MCS0	10.5	9.67	Front	100	10	0.002	1.211	1.000	0.002	0.002
6 185	47	802.11ax	SUB4+1	160	MCS0	10.5	10.13	Rear	100	10	0.086	1.089	1.000	0.094	0.059
6 185	47	802.11ax	SUB4+1	160	MCS0	10.5	10.13	Front	100	10	0.031	1.089	1.000	0.034	0.021
6 185	47	802.11ax	SUB4+1	160	MCS0	10.5	10.13	Left	100	10	0.073	1.089	1.000	0.079	0.050
6 185	47	802.11ax	SUB4+1	160	MCS0	10.5	10.13	Right	100	10	0.002	1.089	1.000	0.002	0.001
6 185	47	802.11ax	SUB4+1	160	MCS0	10.5	10.13	Top	100	10	0.032	1.089	1.000	0.035	0.022
6 025	15	802.11ax	SUB4+1	160	MCS0	10.5	9.64	Rear	100	10	0.070	1.219	1.000	0.085	0.053
6 665	143	802.11ax	SUB4+1	160	MCS0	10.5	9.51	Rear	100	10	0.052	1.256	1.000	0.065	0.041
6 505	111	802.11ax	SUB4+1	160	MCS0	10.5	9.27	Rear	100	10	0.056	1.327	1.000	0.074	0.046
6 505	111	802.11ax	SUB4+1	160	MCS0	10.5	9.27	Front	100	10	0.005	1.327	1.000	0.007	0.004
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram					

DSS Tethering SAR												
Frequency		Mode	Ant.	EFS Limit	Meas. Power	Test Position	Distance	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 1g SAR	Exposure Ratio
MHz	Ch.			(dBm)	(dBm)		(mm)	(W/kg)		(Duty)	(W/kg)	
2 441	39	Bluetooth DH5	SUB4	18.0	17.98	Rear	10	0.198	1.005	1.027	0.204	0.128
2 441	39	Bluetooth DH5	SUB4	18.0	17.98	Front	10	0.188	1.005	1.027	0.194	0.121
2 441	39	Bluetooth DH5	SUB4	18.0	17.98	Left	10	0.326	1.005	1.027	0.336	0.210
2 441	39	Bluetooth DH5	SUB4	18.0	17.98	Top	10	0.140	1.005	1.027	0.144	0.090
2 441	39	Bluetooth DH5	SUB6	17.0	16.16	Rear	10	0.288	1.213	1.027	0.359	0.224
2 441	39	Bluetooth DH5	SUB6	17.0	16.16	Front	10	0.141	1.213	1.027	0.176	0.110
2 441	39	Bluetooth DH5	SUB6	17.0	16.16	Right	10	0.040	1.213	1.027	0.050	0.031
2 441	39	Bluetooth DH5	SUB6	17.0	16.16	Top	10	0.003	1.213	1.027	0.004	0.002
2 440	17	Bluetooth LE 1M(255k)	SUB4	18.0	17.07	Rear	10	0.208	1.239	1.016	0.262	0.164
2 440	17	Bluetooth LE 1M(255k)	SUB4	18.0	17.07	Front	10	0.197	1.239	1.016	0.248	0.155
2 440	17	Bluetooth LE 1M(255k)	SUB4	18.0	17.07	Left	10	0.311	1.239	1.016	0.391	**0.245**
2 440	17	Bluetooth LE 1M(255k)	SUB4	18.0	17.07	Top	10	0.118	1.239	1.016	0.149	0.093
2 402	37	Bluetooth LE 1M(255k)	SUB6	17.0	15.42	Rear	10	0.254	1.439	1.016	0.371	0.232
2 402	37	Bluetooth LE 1M(255k)	SUB6	17.0	15.42	Front	10	0.088	1.439	1.016	0.129	0.080
2 402	37	Bluetooth LE 1M(255k)	SUB6	17.0	15.42	Right	10	0.029	1.439	1.016	0.042	0.026
2 402	37	BluetoothLE 1M(255k)	SUB6	17.0	15.42	Top	10	0.002	1.439	1.016	0.003	0.002
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body / Exposure Ratio 1.6 W/kg / 1.0 Averaged over 1 gram				

L4.3 Phablet Adjusted SAR, Exposure Ratio Measurement Results

5 GHz WLAN Phablet SAR _10g																
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 10g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(mm)	(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 280	56	802.11a	SUB4	20	6	17.0	16.30	Rear	93.7	0	3.900	0.589	1.175	1.067	0.739	0.185
5 280	56	802.11a	SUB4	20	6	17.0	16.30	Front	93.7	0	8.110	0.648	1.175	1.067	0.813	0.203
5 280	56	802.11a	SUB4	20	6	17.0	16.30	Left	93.7	0	19.400	1.280	1.175	1.067	1.605	0.401
5 280	56	802.11a	SUB4	20	6	17.0	16.30	Top	93.7	0	4.830	0.387	1.175	1.067	0.485	0.121
5 500	100	802.11a	SUB4	20	6	17.0	15.37	Rear	93.7	0	6.96	0.569	1.455	1.067	0.884	0.221
5 500	100	802.11a	SUB4	20	6	17.0	15.37	Front	93.7	0	2.74	0.362	1.455	1.067	0.562	0.141
5 500	100	802.11a	SUB4	20	6	17.0	15.37	Left	93.7	0	23.8	1.44	1.455	1.067	2.236	0.559
5 600	120	802.11a	SUB4	20	6	17.0	15.30	Left	93.7	0	25.3	1.56	1.479	1.067	2.462	0.616
5 500	100	802.11a	SUB4	20	6	17.0	15.37	Top	93.7	0	2.74	0.181	1.455	1.067	0.281	0.070
5 885	177	802.11a	SUB4	20	6	17.0	15.71	Rear	93.7	0	5.5	0.654	1.346	1.067	0.939	0.235
5 885	177	802.11a	SUB4	20	6	17.0	15.71	Front	93.7	0	6.9	0.439	1.346	1.067	0.631	0.158
5 885	177	802.11a	SUB4	20	6	17.0	15.71	Left	93.7	0	18.7	1.21	1.346	1.067	1.738	0.435
5 885	177	802.11a	SUB4	20	6	17.0	15.71	Top	93.7	0	2.55	0.192	1.346	1.067	0.276	0.069
5 260	52	802.11a	SUB1	20	6	17.0	15.26	Rear	93.7	0	3.850	0.521	1.493	1.067	0.830	0.208
5 260	52	802.11a	SUB1	20	6	17.0	15.26	Front	93.7	0	1.180	0.133	1.493	1.067	0.212	0.053
5 260	52	802.11a	SUB1	20	6	17.0	15.26	Right	93.7	0	0.514	0.046	1.493	1.067	0.073	0.018
5 260	52	802.11a	SUB1	20	6	17.0	15.26	Top	93.7	0	0.988	0.113	1.493	1.067	0.180	0.045
5 720	144	802.11a	SUB1	20	6	17.0	15.09	Rear	93.7	0	4	0.512	1.552	1.067	0.848	0.212
5 720	144	802.11a	SUB1	20	6	17.0	15.09	Front	93.7	0	1.48	0.172	1.552	1.067	0.285	0.071
5 720	144	802.11a	SUB1	20	6	17.0	15.09	Right	93.7	0	1.33	0.113	1.552	1.067	0.187	0.047
5 720	144	802.11a	SUB1	20	6	17.0	15.09	Top	93.7	0	2.57	0.187	1.552	1.067	0.310	0.077
5 855	171	802.11a	SUB1	20	6	17.0	15.08	Rear	93.7	0	7.08	0.675	1.556	1.067	1.121	0.280
5 855	171	802.11a	SUB1	20	6	17.0	15.08	Front	93.7	0	1.18	0.144	1.556	1.067	0.239	0.060
5 855	171	802.11a	SUB1	20	6	17.0	15.08	Right	93.7	0	0.875	0.082	1.556	1.067	0.136	0.034
5 855	171	802.11a	SUB1	20	6	17.0	15.08	Top	93.7	0	3.11	0.174	1.556	1.067	0.289	0.072
5 280	56	802.11a	SUB4+1	20	6	17.0	15.24	Rear	93.7	0	5.320	0.622	1.500	1.067	0.991	0.248
5 280	56	802.11a	SUB4+1	20	6	17.0	15.24	Front	93.7	0	7.820	0.695	1.500	1.067	1.107	0.277
5 280	56	802.11a	SUB4+1	20	6	17.0	15.24	Left	93.7	0	14.500	1.230	1.500	1.067	1.960	0.490
5 280	56	802.11a	SUB4+1	20	6	17.0	15.24	Right	93.7	0	0.526	0.059	1.500	1.067	0.094	0.024
5 280	56	802.11a	SUB4+1	20	6	17.0	15.24	Top	93.7	0	2.720	0.429	1.500	1.067	0.684	0.171
5 500	100	802.11a	SUB4+1	20	6	17.0	15.03	Rear	93.7	0	4.46	0.468	1.574	1.067	0.775	0.194
5 500	100	802.11a	SUB4+1	20	6	17.0	15.03	Front	93.7	0	3.84	0.338	1.574	1.067	0.560	0.140
5 500	100	802.11a	SUB4+1	20	6	17.0	15.03	Left	93.7	0	23.0	1.44	1.574	1.067	2.385	0.596
5 600	120	802.11a	SUB4+1	20	6	17.0	15.04	Left	93.7	0	23.0	1.55	1.570	1.067	2.597	**0.649**
5 500	100	802.11a	SUB4+1	20	6	17.0	15.03	Right	93.7	0	1.23	0.102	1.574	1.067	0.169	0.042
5 500	100	802.11a	SUB4+1	20	6	17.0	15.03	Top	93.7	0	2.53	0.174	1.574	1.067	0.288	0.072
5 885	177	802.11a	SUB4+1	20	6	17.0	15.01	Rear	93.7	0	5.25	0.581	1.581	1.067	0.980	0.245
5 885	177	802.11a	SUB4+1	20	6	17.0	15.01	Front	93.7	0	6.04	0.385	1.581	1.067	0.650	0.162
5 885	177	802.11a	SUB4+1	20	6	17.0	15.01	Left	93.7	0	19.2	1.16	1.581	1.067	1.957	0.489
5 885	177	802.11a	SUB4+1	20	6	17.0	15.01	Right	93.7	0	0.841	0.078	1.581	1.067	0.132	0.033
5 885	177	802.11a	SUB4+1	20	6	17.0	15.01	Top	93.7	0	2.57	0.205	1.581	1.067	0.346	0.086

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand / Exposure Ratio 4 W/kg / 1.0 Averaged over 10 gram

6 GHz WLAN Phablet SAR _10g															
Frequency		Mode	Ant.	Band width	Data Rate	EFS Limit	Meas. Power	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaling Factor	Adjusted 10g SAR	Exposure Ratio
MHz	Ch.			(MHz)	(Mbps)	(dBm)	(dBm)			(mm)	(W/kg)		(Duty)	(W/kg)	
6 505	111	802.11ax	SUB4	160	MCS0	10.5	9.27	Rear	100	0	0.145	1.327	1.000	0.192	0.048
6 505	111	802.11ax	SUB4	160	MCS0	10.5	9.27	Front	100	0	0.173	1.327	1.000	0.230	0.057
6 505	111	802.11ax	SUB4	160	MCS0	10.5	9.27	Left	100	0	0.372	1.327	1.000	0.494	0.123
6 505	111	802.11ax	SUB4	160	MCS0	10.5	9.27	Top	100	0	0.049	1.327	1.000	0.065	0.016
6 985	207	802.11ax	SUB4	160	MCS0	10.5	8.79	Left	100	0	0.244	1.483	1.000	0.362	0.090
6 985	207	802.11ax	SUB1	160	MCS0	10.5	9.67	Rear	100	0	0.071	1.211	1.000	0.086	0.021
6 985	207	802.11ax	SUB1	160	MCS0	10.5	9.67	Front	100	0	0.038	1.211	1.000	0.046	0.012
6 985	207	802.11ax	SUB1	160	MCS0	10.5	9.67	Right	100	0	0	1.211	1.000	0.000	0.000
6 985	207	802.11ax	SUB1	160	MCS0	10.5	9.67	Top	100	0	0.003	1.211	1.000	0.004	0.001
6 505	111	802.11ax	SUB1	160	MCS0	10.5	9.60	Rear	100	0	0.079	1.230	1.000	0.097	0.024
6 505	111	802.11ax	SUB4+1	160	MCS0	10.5	9.27	Rear	100	0	0.142	1.327	1.000	0.188	0.047
6 505	111	802.11ax	SUB4+1	160	MCS0	10.5	9.27	Front	100	0	0.075	1.327	1.000	0.100	0.025
6 505	111	802.11ax	SUB4+1	160	MCS0	10.5	9.27	Left	100	0	0.396	1.327	1.000	0.525	**0.131**
6 505	111	802.11ax	SUB4+1	160	MCS0	10.5	9.27	Right	100	0	0.006	1.327	1.000	0.008	0.002
6 505	111	802.11ax	SUB4+1	160	MCS0	10.5	9.27	Top	100	0	0.064	1.327	1.000	0.085	0.021
6 985	207	802.11ax	SUB4+1	160	MCS0	10.5	8.79	Left	100	0	0.268	1.483	1.000	0.397	0.099
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population											Hand / Exposure Ratio 4 W/kg / 1.0 Averaged over 10 gram				

L.5. Total Exposure Ratio Analysis

L.5.1 Head Total Exposure Ratio

AG0					
Position	Main 1	Main 2	Main 3	Main 4	Max
Left Touch	0.222	0.070	0.000	0.000	0.222
Left Tilt	0.093	0.053	0.000	0.000	0.093
Right Touch	0.137	0.053	0.000	0.000	0.137
Right Tilt	0.089	0.038	0.000	0.000	0.089

AG1						
Position	Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Max
Left Touch	0.618	0.469	0.699	0.129	0.498	0.699
Left Tilt	0.533	0.591	0.102	0.010	0.060	0.591
Right Touch	0.469	0.676	0.574	0.304	0.263	0.676
Right Tilt	0.394	0.691	0.250	0.235	0.038	0.691

AG0 + AG1 Simultaneous SAR Results			
Position	AG0 Max	AG1 Max	∑ AG0+AG1
Left Touch	0.222	0.699	**0.921**
Left Tilt	0.093	0.591	0.684
Right Touch	0.137	0.676	0.813
Right Tilt	0.089	0.691	0.780

Note : For all combinations where the TER sum of AG0+AG1 is not greater than 1, there's no further analysis required for compliance demonstration.

L.5.2 BodyWorn Total Exposure Ratio

AG0					
Position	Main 1	Main 2	Main 3	Main 4	Max
Rear	0.429	0.252	0.006	0.119	0.429
Front	0.343	0.162	0.008	0.016	0.343

AG1						
Position	Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Max
Rear	0.433	0.453	0.433	0.021	0.398	0.453
Front	0.166	0.176	0.191	0.034	0.191	0.191

AG0 + AG1 Simultaneous SAR Results			
Position	AG0 Max	AG1 Max	∑ AG0+AG1
Rear	0.429	0.453	**0.882**
Front	0.343	0.191	0.533

Note : For all combinations where the TER sum of AG0+AG1 is not greater than 1, there's no further analysis required for compliance demonstration.

L.5.3 Hotspot Total Exposure Ratio

AG0					
Position	Main 1	Main 2	Main 3	Main 4	Max
Rear	0.429	0.252	0.006	0.119	0.429
Front	0.343	0.162	0.008	0.016	0.343
Left	0.261	0.131	0.019		0.261
Right	0.304			0.003	0.304
Top					0.000
Bottom	0.709	0.158	0.003	0.056	0.709

AG1						
Position	Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Max
Rear	0.432	0.453	0.432	0.021	0.398	0.453
Front	0.157	0.176	0.191	0.034	0.191	0.191
Left		0.082	0.353			0.353
Right	0.178			0.016	0.066	0.178
Top	0.159	0.306	0.153	0.044	0.098	0.306
Bottom						0.000

AG0 + AG1 Simultaneous SAR Results			
Position	AG0 Max	AG1 Max	∑ AG0+AG1
Rear	0.429	0.453	**0.882**
Front	0.343	0.191	0.533
Left	0.261	0.353	0.614
Right	0.304	0.178	0.481
Top	0.000	0.306	0.306
Bottom	0.709	0.000	0.709

Note : For all combinations where the TER sum of AG0+AG1 is not greater than 1, there's no further analysis required for compliance demonstration.

L.5.4 Phablet Total Exposure Ratio

AG0					
Position	Main 1	Main 2	Main 3	Main 4	Max
Rear	0	0	0	0	0.000
Front	0	0	0	0	0.000
Left	0	0	0		0.000
Right	0			0	0.000
Top					0.000
Bottom	0	0	0	0	0.000

AG1						
Position	Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Max
Rear	0.280	0	0.248	0	0	0.280
Front	0.277	0	0.277	0	0	0.277
Left		0	0.649			0.649
Right	0.047			0	0	0.047
Top	0.171	0	0.171	0	0	0.171
Bottom						0.00

AG0 + AG1 Simultaneous SAR Results				
Position	AG0 Max	AG1 Max	ER	∑ AG0+AG1+ER
Rear	0.000	0.280	0.0045	0.280
Front	0.000	0.277	0	0.277
Left	0.000	0.649	0	**0.649**
Right	0.000	0.047	0	0.047
Top	0.000	0.171	0	0.171
Bottom	0.000	0.00	0	0.000

Note : For all combinations where the TER sum of AG0+AG1 is not greater than 1, there's no further analysis required for compliance demonstration.

L.6 Conclusion

The above numerical summed SAR results and Qualcomm Guidance 80-W2112-4 Appendix K. TER based Antenna Grouping Evaluation for Radios under Smart Transmit section for all the combinations of antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and 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.