

## APPENDIX A: SAR TEST RESULTS FOR $P_{LIMIT}$ CALCULATIONS

For some bands/modes, a lower  $P_{Limit}$  was selected as a more conservative evaluation.  
Data highlighted in blue was tested and provided by the manufacturer.

**Table A-1**  
**DSI = 2  $P_{Limit}$  Calculations –GSM 850 Head SAR**

MEASUREMENT RESULTS											
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Conducted Power [dBm]	Duty Cycle	SAR (1g)	P <sub>limit</sub>	Overall P <sub>limit</sub>
MHz	Ch.								(W/kg)		
824.20	128	Right	Cheek	GSM 850	GSM	A	31.89	1:8.3	0.129	31.58	30.84
824.20	128	Right	Tilt	GSM 850	GSM	A	31.89	1:8.3	0.082	33.53	
824.20	128	Left	Cheek	GSM 850	GSM	A	31.89	1:8.3	0.153	30.84	
824.20	128	Left	Tilt	GSM 850	GSM	A	31.89	1:8.3	0.068	34.35	

**Table A-2**  
**DSI = 2  $P_{Limit}$  Calculations –GSM 1900 Head SAR**

MEASUREMENT RESULTS											
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Conducted Power [dBm]	Duty Cycle	SAR (1g)	P <sub>limit</sub>	Overall P <sub>limit</sub>
MHz	Ch.								(W/kg)		
1850.20	512	Right	Cheek	GSM 1900	GSM	A	28.93	1:8.3	0.047	33.01	33.01
1850.20	512	Right	Tilt	GSM 1900	GSM	A	28.93	1:8.3	0.017	37.42	
1850.20	512	Left	Cheek	GSM 1900	GSM	A	28.93	1:8.3	0.036	34.17	
1850.20	512	Left	Tilt	GSM 1900	GSM	A	28.93	1:8.3	0.035	34.29	

**Table A-3**  
**DSI = 2  $P_{Limit}$  Calculations –UMTS 850 Head SAR**

MEASUREMENT RESULTS												
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Duty Cycle	SAR (1g)	P <sub>limit</sub>	Overall P <sub>limit</sub>
MHz	Ch.									(W/kg)		
836.60	4183	Right	Cheek	UMTS 850	RMC	A	25.0	23.93	1:1	0.159	31.92	30.92
836.60	4183	Right	Tilt	UMTS 850	RMC	A	25.0	23.93	1:1	0.102	33.84	
836.60	4183	Left	Cheek	UMTS 850	RMC	A	25.0	23.93	1:1	0.200	30.92	
836.60	4183	Left	Tilt	UMTS 850	RMC	A	25.0	23.93	1:1	0.093	34.23	

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**Table A-4**  
**DSI = 2  $P_{Limit}$  Calculations – LTE Band 12 Head SAR**

MEASUREMENT RESULTS															
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	10	QPSK	1	49	24.44	1:1	0.098	34.53	33.91
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	10	QPSK	25	25	23.24	1:1	0.081	34.18	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	10	QPSK	1	49	24.44	1:1	0.057	36.90	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	10	QPSK	25	25	23.24	1:1	0.048	36.42	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	10	QPSK	1	49	24.44	1:1	0.107	34.15	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	10	QPSK	25	25	23.24	1:1	0.086	33.91	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	10	QPSK	1	49	24.44	1:1	0.061	36.60	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	10	QPSK	25	25	23.24	1:1	0.049	36.35	

**Table A-5**  
**DSI = 2  $P_{Limit}$  Calculations – LTE Band 13 Head SAR**

MEASUREMENT RESULTS															
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	10	QPSK	1	0	24.31	1:1	0.105	34.10	32.55
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	10	QPSK	25	0	23.22	1:1	0.093	33.55	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	10	QPSK	1	0	24.31	1:1	0.052	37.17	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	10	QPSK	25	0	23.22	1:1	0.044	36.75	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	10	QPSK	1	0	24.31	1:1	0.150	32.55	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	10	QPSK	25	0	23.22	1:1	0.116	32.58	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	10	QPSK	1	0	24.31	1:1	0.062	36.42	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	10	QPSK	25	0	23.22	1:1	0.049	36.28	

**Table A-6**  
**DSI = 2  $P_{Limit}$  Calculations – LTE Band 26 Head SAR**

MEASUREMENT RESULTS															
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
831.50	26865	Mid	Right	Cheek	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	1:1	0.148	32.47	31.57
831.50	26865	Mid	Right	Cheek	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1:1	0.128	32.17	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	1:1	0.120	33.38	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1:1	0.100	33.24	
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	1:1	0.182	31.57	
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1:1	0.144	31.66	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	1:1	0.103	34.04	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1:1	0.080	34.23	

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**Table A-7**  
**DSI = 2  $P_{Limit}$  Calculations – LTE Band 66 Head SAR**

MEASUREMENT RESULTS															
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
1745.00	132322	Mid	Right	Cheek	LTE Band 66 (AWS)	A	20	QPSK	1	50	23.34	1:1	0.112	32.85	32.85
1745.00	132322	Mid	Right	Cheek	LTE Band 66 (AWS)	A	20	QPSK	50	25	22.23	1:1	0.083	33.04	
1745.00	132322	Mid	Right	Tilt	LTE Band 66 (AWS)	A	20	QPSK	1	50	23.34	1:1	0.068	35.01	
1745.00	132322	Mid	Right	Tilt	LTE Band 66 (AWS)	A	20	QPSK	50	25	22.23	1:1	0.052	35.07	
1745.00	132322	Mid	Left	Cheek	LTE Band 66 (AWS)	A	20	QPSK	1	50	23.34	1:1	0.058	35.71	
1745.00	132322	Mid	Left	Cheek	LTE Band 66 (AWS)	A	20	QPSK	50	25	22.23	1:1	0.043	35.90	
1745.00	132322	Mid	Left	Tilt	LTE Band 66 (AWS)	A	20	QPSK	1	50	23.34	1:1	0.067	35.08	
1745.00	132322	Mid	Left	Tilt	LTE Band 66 (AWS)	A	20	QPSK	50	25	22.23	1:1	0.052	35.07	

**Table A-8**  
**DSI = 2  $P_{Limit}$  Calculations – LTE Band 2 Head SAR**

MEASUREMENT RESULTS															
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
1860.00	18700	Low	Right	Cheek	LTE Band 2 (PCS)	A	20	QPSK	1	99	23.76	1:1	0.108	33.43	33.07
1860.00	18700	Low	Right	Cheek	LTE Band 2 (PCS)	A	20	QPSK	50	25	22.51	1:1	0.088	33.07	
1860.00	18700	Low	Right	Tilt	LTE Band 2 (PCS)	A	20	QPSK	1	99	23.76	1:1	0.054	36.44	
1860.00	18700	Low	Right	Tilt	LTE Band 2 (PCS)	A	20	QPSK	50	25	22.51	1:1	0.045	35.98	
1860.00	18700	Low	Left	Cheek	LTE Band 2 (PCS)	A	20	QPSK	1	99	23.76	1:1	0.097	33.89	
1860.00	18700	Low	Left	Cheek	LTE Band 2 (PCS)	A	20	QPSK	50	25	22.51	1:1	0.069	34.12	
1860.00	18700	Low	Left	Tilt	LTE Band 2 (PCS)	A	20	QPSK	1	99	23.76	1:1	0.085	34.47	
1860.00	18700	Low	Left	Tilt	LTE Band 2 (PCS)	A	20	QPSK	50	25	22.51	1:1	0.063	34.52	

**Table A-9**  
**DSI = 2  $P_{Limit}$  Calculations – LTE Band 41 Head SAR**

MEASUREMENT RESULTS															
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
2593.00	40620	Mid	Right	Cheek	LTE Band 41	B	20	QPSK	1	99	24.52	1:1.58	0.030	37.76	36.74
2593.00	40620	Mid	Right	Cheek	LTE Band 41	B	20	QPSK	50	50	23.60	1:1.58	0.023	38.00	
2593.00	40620	Mid	Right	Tilt	LTE Band 41	B	20	QPSK	1	99	24.52	1:1.58	0.025	38.56	
2593.00	40620	Mid	Right	Tilt	LTE Band 41	B	20	QPSK	50	50	23.60	1:1.58	0.023	38.00	
2593.00	40620	Mid	Left	Cheek	LTE Band 41	B	20	QPSK	1	99	24.52	1:1.58	0.038	36.74	
2593.00	40620	Mid	Left	Cheek	LTE Band 41	B	20	QPSK	50	50	23.60	1:1.58	0.029	36.99	
2593.00	40620	Mid	Left	Tilt	LTE Band 41	B	20	QPSK	1	99	24.52	1:1.58	0.018	39.98	
2593.00	40620	Mid	Left	Tilt	LTE Band 41	B	20	QPSK	50	50	23.60	1:1.58	0.015	39.86	

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**Table A-10**  
**DSI = 2  $P_{Limit}$  Calculations – NR Band n5 Head SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
836.50	167300	Mid	Right	Cheek	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.113	33.26	32.67
836.50	167300	Mid	Right	Cheek	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.106	33.46	
836.50	167300	Mid	Right	Tilt	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.052	36.63	
836.50	167300	Mid	Right	Tilt	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.057	36.15	
836.50	167300	Mid	Left	Cheek	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.112	33.30	
836.50	167300	Mid	Left	Cheek	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.127	32.67	
836.50	167300	Mid	Left	Cheek	NR Band n5	A	20	CP-OFDM	QPSK	1	1	22.34	1:1	0.090	32.80	
836.50	167300	Mid	Left	Tilt	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.054	36.47	
836.50	167300	Mid	Left	Tilt	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.065	35.58	

**Table A-11**  
**DSI = 2  $P_{Limit}$  Calculations – NR Band n41 Head SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	16.79	1:1	0.452	20.24	18.07
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	16.79	1:1	0.455	20.21	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	16.79	1:1	0.596	19.04	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	16.79	1:1	0.577	19.18	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	100	DFT-S-OFDM	QPSK	270	0	16.71	1:1	0.611	18.85	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	100	CP-OFDM	QPSK	1	1	16.61	1:1	0.715	18.07	
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	16.79	1:1	0.256	22.71	
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	16.79	1:1	0.264	22.57	
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	16.79	1:1	0.397	20.80	
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	16.79	1:1	0.395	20.82	

**Table A-12**  
**DSI = 0  $P_{Limit}$  Calculations – GSM Body-Worn SAR**

MEASUREMENT RESULTS											
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.								(W/kg)		
824.20	128	back	15 mm	GSM 850	GSM	A	31.89	1:8.3	0.237	28.94	28.94
1850.20	512	back	15 mm	GSM 1900	GSM	A	27.48	1:8.3	0.136	26.94	26.94

**Table A-13**  
**DSI = 0  $P_{Limit}$  Calculations – UMTS Body-Worn SAR**

MEASUREMENT RESULTS											
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.								(W/kg)		
836.60	4183	back	15 mm	UMTS 850	RMC	A	23.93	1:1	0.331	28.73	28.73

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**Table A-14**  
**DSI = 0  $P_{Limit}$  Calculations – 4G Body-Worn SAR**

MEASUREMENT RESULTS															
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
707.50	23095	Mid	back	15 mm	LTE Band 12	A	10	QPSK	1	49	24.44	1:1	0.189	31.68	31.17
707.50	23095	Mid	back	15 mm	LTE Band 12	A	10	QPSK	25	25	23.24	1:1	0.161	31.17	
782.00	23230	Mid	back	15 mm	LTE Band 13	A	10	QPSK	1	0	24.31	1:1	0.222	30.85	30.55
782.00	23230	Mid	back	15 mm	LTE Band 13	A	10	QPSK	25	0	23.22	1:1	0.185	30.55	
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	1:1	0.334	28.93	28.93
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1:1	0.255	29.17	
1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	1:1	0.195	26.39	26.39
1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	1:1	0.189	26.46	
1860.00	18700	Low	back	15 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	1:1	0.160	26.95	26.89
1860.00	18700	Low	back	15 mm	LTE Band 2 (PCS)	A	20	QPSK	50	50	18.96	1:1	0.161	26.89	
2593.00	40620	Mid	back	15 mm	LTE Band 41	B	20	QPSK	1	99	21.60	1:1.58	0.148	27.91	27.91
2593.00	40620	Mid	back	15 mm	LTE Band 41	B	20	QPSK	50	25	21.69	1:1.58	0.150	27.95	

**Table A-15**  
**DSI = 0  $P_{Limit}$  Calculations – NR n5 Body-Worn SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
836.50	167300	Mid	back	15 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.258	29.67	29.67
836.50	167300	Mid	back	15 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.244	29.84	
836.50	167300	Mid	back	15 mm	NR Band n5	A	20	CP-OFDM	QPSK	1	1	22.34	1:1	0.176	29.89	

**Table A-16**  
**DSI = 0  $P_{Limit}$  Calculations – NR n41 Body-Worn SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
2592.99	518598	Mid	back	15 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.082	29.25	28.02
2592.99	518598	Mid	back	15 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	18.42	1:1	0.083	29.23	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	100	CP-OFDM	QPSK	1	1	18.23	1:1	0.105	28.02	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

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**Table A-17**  
**DSI = 3  $P_{Limit}$  Calculations – GPRS Hotspot SAR**

MEASUREMENT RESULTS												
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	# of Time Slots	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.									(W/kg)		
824.20	128	back	10 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.682	26.16	25.52
836.60	190	back	10 mm	GSM 850	GPRS	A	3	28.89	1:2.76	0.696	26.03	
848.80	251	back	10 mm	GSM 850	GPRS	A	3	28.70	1:2.76	0.750	25.52	
824.20	128	front	10 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.448	27.99	
824.20	128	bottom	10 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.237	30.75	
824.20	128	right	10 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.219	31.10	
824.20	128	left	10 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.342	29.16	
1880.00	661	back	10 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.303	23.78	19.94
1880.00	661	front	10 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.270	24.29	
1850.20	512	bottom	10 mm	GSM 1900	GPRS	A	4	21.46	1:2.076	0.682	19.94	
1880.00	661	bottom	10 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.703	20.13	
1909.80	810	bottom	10 mm	GSM 1900	GPRS	A	4	21.40	1:2.076	0.646	20.12	
1880.00	661	right	10 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.055	31.20	
1880.00	661	left	10 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.029	33.98	

**Table A-18**  
**DSI = 3  $P_{Limit}$  Calculations –UMTS Hotspot SAR**

MEASUREMENT RESULTS												
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.								(W/kg)			
826.40	4132	back	10 mm	UMTS 850	RMC	A	23.92	1:1	0.620	26.00	25.25	
836.60	4183	back	10 mm	UMTS 850	RMC	A	23.93	1:1	0.647	25.82		
846.60	4233	back	10 mm	UMTS 850	RMC	A	23.90	1:1	0.733	25.25		
836.60	4183	front	10 mm	UMTS 850	RMC	A	23.93	1:1	0.396	27.95		
836.60	4183	bottom	10 mm	UMTS 850	RMC	A	23.93	1:1	0.222	30.47		
836.60	4183	right	10 mm	UMTS 850	RMC	A	23.93	1:1	0.160	31.89		
836.60	4183	left	10 mm	UMTS 850	RMC	A	23.93	1:1	0.268	29.65		

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**Table A-19**  
**DSI = 3  $P_{Limit}$  Calculations – LTE Band 12 Hotspot SAR**

MEASUREMENT RESULTS																		
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	SAR (10g)	Reported SAR (10g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)												(W/kg)	(W/kg)			
707.50	23095	Mid	back	10 mm	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.292	0.168	0.214	29.79	29.33
707.50	23095	Mid	back	10 mm	LTE Band 12	A	10	QPSK	25	25	23.24	1	1:1	0.240	0.139	0.186	29.44	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.184	0.145	0.185	31.79	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	10	QPSK	25	25	23.24	1	1:1	0.157	0.123	0.164	31.28	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.050	0.033	0.042	37.45	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	10	QPSK	25	25	23.24	1	1:1	0.041	0.028	0.037	37.11	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.276	0.193	0.246	30.03	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	10	QPSK	25	25	23.24	1	1:1	0.246	0.172	0.230	29.33	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.250	0.176	0.225	30.46	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	10	QPSK	25	25	23.24	1	1:1	0.216	0.152	0.203	29.90	

**Table A-20**  
**DSI = 3  $P_{Limit}$  Calculations – LTE Band 13 Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
782.00	23230	Mid	back	10 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.494	27.37	27.16
782.00	23230	Mid	back	10 mm	LTE Band 13	A	10	QPSK	25	0	23.22	1	1:1	0.404	27.16	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.288	29.72	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	10	QPSK	25	0	23.22	1	1:1	0.236	29.49	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.156	32.38	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	10	QPSK	25	0	23.22	1	1:1	0.128	32.15	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.124	33.38	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	10	QPSK	25	0	23.22	1	1:1	0.111	32.77	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.181	31.73	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	10	QPSK	25	0	23.22	1	1:1	0.150	31.46	

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**Table A-21**  
**DSI = 3  $P_{Limit}$  Calculations – LTE Band 26 Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.722	25.58	25.51
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1	1:1	0.564	25.73	
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	15	QPSK	75	0	23.18	1	1:1	0.585	25.51	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.403	28.12	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1	1:1	0.315	28.26	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.215	30.85	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1	1:1	0.171	30.91	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.101	34.13	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1	1:1	0.091	33.65	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.222	30.71	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	15	QPSK	36	0	23.24	1	1:1	0.193	30.38	

**Table A-22**  
**DSI = 3  $P_{Limit}$  Calculations – LTE Band 66 Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.410	23.16	20.56
1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	0	1:1	0.397	23.23	
1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.307	24.42	
1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	0	1:1	0.299	24.46	
1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.668	21.04	
1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	0	1:1	0.680	20.89	
1745.00	132322	Mid	bottom	10 mm	LTE Band 66 (AWS)	A	20	QPSK	50	0	19.19	0	1:1	0.672	20.92	
1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.03	0	1:1	0.703	20.56	
1745.00	132322	Mid	bottom	10 mm	LTE Band 66 (AWS)	A	20	QPSK	100	0	19.15	0	1:1	0.693	20.74	
1720.00	132072	Low	right	10 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.065	31.16	
1720.00	132072	Low	right	10 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	0	1:1	0.068	30.89	
1720.00	132072	Low	left	10 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.042	33.06	
1720.00	132072	Low	left	10 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	0	1:1	0.039	33.31	

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**Table A-23**  
**DSI = 3  $P_{Limit}$  Calculations – LTE Band 2 Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
1860.00	18700	Low	back	10 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.311	24.06	19.86
1860.00	18700	Low	back	10 mm	LTE Band 2 (PCS)	A	20	QPSK	50	50	18.96	0	1:1	0.321	23.89	
1860.00	18700	Low	front	10 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.294	24.31	
1860.00	18700	Low	front	10 mm	LTE Band 2 (PCS)	A	20	QPSK	50	50	18.96	0	1:1	0.295	24.26	
1860.00	18700	Low	bottom	10 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.731	20.35	
1880.00	18900	Mid	bottom	10 mm	LTE Band 2 (PCS)	A	20	QPSK	1	50	18.68	0	1:1	0.762	19.86	
1900.00	19100	High	bottom	10 mm	LTE Band 2 (PCS)	A	20	QPSK	1	50	18.80	0	1:1	0.757	20.01	
1860.00	18700	Low	bottom	10 mm	LTE Band 2 (PCS)	A	20	QPSK	50	50	18.96	0	1:1	0.740	20.27	
1880.00	18900	Mid	bottom	10 mm	LTE Band 2 (PCS)	A	20	QPSK	50	0	18.94	0	1:1	0.767	20.09	
1900.00	19100	High	bottom	10 mm	LTE Band 2 (PCS)	A	20	QPSK	50	0	18.88	0	1:1	0.758	20.08	
1860.00	18700	Low	bottom	10 mm	LTE Band 2 (PCS)	A	20	QPSK	100	0	18.95	0	1:1	0.729	20.32	
1860.00	18700	Low	right	10 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.047	32.27	
1860.00	18700	Low	right	10 mm	LTE Band 2 (PCS)	A	20	QPSK	50	50	18.96	0	1:1	0.046	32.33	
1860.00	18700	Low	left	10 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.035	33.55	
1860.00	18700	Low	left	10 mm	LTE Band 2 (PCS)	A	20	QPSK	50	50	18.96	0	1:1	0.037	33.28	

**Table A-24**  
**DSI = 3  $P_{Limit}$  Calculations – LTE Band 41 Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
2593.00	40620	Mid	back	10 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.378	23.84	21.58
2593.00	40620	Mid	back	10 mm	LTE Band 41	B	20	QPSK	50	25	21.69	0	1:1.58	0.377	23.94	
2593.00	40620	Mid	front	10 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.295	24.92	
2593.00	40620	Mid	front	10 mm	LTE Band 41	B	20	QPSK	50	25	21.69	0	1:1.58	0.286	25.14	
2506.00	39750	Low	bottom	10 mm	LTE Band 41	B	20	QPSK	1	50	21.25	0	1:1.58	0.578	21.65	
2549.50	40185	Low-Mid	bottom	10 mm	LTE Band 41	B	20	QPSK	1	99	21.33	0	1:1.58	0.596	21.59	
2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.589	21.91	
2636.50	41055	Mid-High	bottom	10 mm	LTE Band 41	B	20	QPSK	1	0	21.34	0	1:1.58	0.585	21.68	
2680.00	41490	High	bottom	10 mm	LTE Band 41	B	20	QPSK	1	0	21.13	0	1:1.58	0.552	21.73	
2506.00	39750	Low	bottom	10 mm	LTE Band 41	B	20	QPSK	50	0	21.35	0	1:1.58	0.577	21.75	
2549.50	40185	Low-Mid	bottom	10 mm	LTE Band 41	B	20	QPSK	50	50	21.43	0	1:1.58	0.612	21.58	
2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	20	QPSK	50	25	21.69	0	1:1.58	0.582	22.06	
2636.50	41055	Mid-High	bottom	10 mm	LTE Band 41	B	20	QPSK	50	0	21.48	0	1:1.58	0.597	21.74	
2680.00	41490	High	bottom	10 mm	LTE Band 41	B	20	QPSK	50	25	21.25	0	1:1.58	0.543	21.92	
2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	20	QPSK	100	0	21.55	0	1:1.58	0.586	21.89	
2593.00	40620	Mid	right	10 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.148	27.91	
2593.00	40620	Mid	right	10 mm	LTE Band 41	B	20	QPSK	50	25	21.69	0	1:1.58	0.154	27.83	

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**Table A-25**  
**DSI = 3  $P_{Limit}$  Calculations – NR Band n5 Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
836.50	167300	Mid	back	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.658	25.61	25.51
836.50	167300	Mid	back	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.646	25.61	
836.50	167300	Mid	back	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	100	0	22.90	1:1	0.541	25.57	
836.50	167300	Mid	back	10 mm	NR Band n5	A	20	CP-OFDM	QPSK	1	1	22.34	1:1	0.482	25.51	
836.50	167300	Mid	front	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.293	29.12	
836.50	167300	Mid	front	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.289	29.10	
836.50	167300	Mid	bottom	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.357	28.26	
836.50	167300	Mid	bottom	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.348	28.29	
836.50	167300	Mid	right	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.061	35.94	
836.50	167300	Mid	right	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.073	35.08	
836.50	167300	Mid	left	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.217	30.43	
836.50	167300	Mid	left	10 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	50	28	23.71	1:1	0.236	29.98	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

**Table A-26**  
**DSI = 3  $P_{Limit}$  Calculations – NR Band n41 Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
2592.99	518598	Mid	back	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.184	25.74	21.97
2592.99	518598	Mid	back	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	18.42	1:1	0.180	25.87	
2592.99	518598	Mid	front	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.113	27.86	
2592.99	518598	Mid	front	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	18.42	1:1	0.114	27.85	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.338	23.10	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	18.42	1:1	0.333	23.20	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	100	CP-OFDM	QPSK	1	1	18.23	1:1	0.423	21.97	
2592.99	518598	Mid	left	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.034	33.08	
2592.99	518598	Mid	left	10 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	18.42	1:1	0.032	33.37	

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**Table A-27**  
**DSI = 0  $P_{Limit}$  Calculations – GPRS Phablet SAR**

MEASUREMENT RESULTS												
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	# of Time Slots	Conducted Power [dBm]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.									(W/kg)		
824.20	128	back	8 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.294	33.80	28.98
824.20	128	front	6 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.282	33.98	
824.20	128	bottom	12 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.182	35.88	
824.20	128	right	0 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.892	28.98	
824.20	128	left	0 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.330	33.29	
1880.00	661	back	8 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.217	29.21	27.92
1880.00	661	front	6 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.243	28.72	
1880.00	661	bottom	12 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.292	27.92	
1880.00	661	right	0 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.150	30.82	
1880.00	661	left	0 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.080	33.55	

**Table A-28**  
**DSI = 0  $P_{Limit}$  Calculations – UMTS Phablet SAR**

MEASUREMENT RESULTS												
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Conducted Power [dBm]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.								(W/kg)			
836.60	4183	back	8 mm	UMTS 850	RMC	A	23.93	1:1	0.292	33.26	29.52	
836.60	4183	front	6 mm	UMTS 850	RMC	A	23.93	1:1	0.245	34.02		
836.60	4183	bottom	12 mm	UMTS 850	RMC	A	23.93	1:1	0.144	36.33		
836.60	4183	right	0 mm	UMTS 850	RMC	A	23.93	1:1	0.690	29.52		
836.60	4183	left	0 mm	UMTS 850	RMC	A	23.93	1:1	0.300	33.14		

**Table A-29**  
**DSI = 0  $P_{Limit}$  Calculations – LTE Band 12 Phablet SAR**

MEASUREMENT RESULTS															
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
707.50	23095	Mid	back	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.328	33.26	27.59
707.50	23095	Mid	front	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.284	33.89	
707.50	23095	Mid	bottom	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.303	33.60	
707.50	23095	Mid	right	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	1.210	27.59	
707.50	23095	Mid	left	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.120	37.63	

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**Table A-30**  
**DSI = 0  $P_{Limit}$  Calculations – LTE Band 13 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
782.00	23230	Mid	back	8 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.285	33.74	28.28
782.00	23230	Mid	front	6 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.201	35.26	
782.00	23230	Mid	bottom	12 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.301	33.50	
782.00	23230	Mid	right	0 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	1.002	28.28	
782.00	23230	Mid	left	0 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.240	34.49	

**Table A-31**  
**DSI = 0  $P_{Limit}$  Calculations – LTE Band 26 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
831.50	26865	Mid	back	8 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.249	34.19	27.02
831.50	26865	Mid	front	6 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.285	33.60	
831.50	26865	Mid	bottom	12 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.224	34.65	
831.50	26865	Mid	right	0 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	1.298	27.02	
831.50	26865	Mid	left	0 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.270	33.84	

**Table A-32**  
**DSI = 0  $P_{Limit}$  Calculations – LTE Band 66 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
1720.00	132072	Low	back	8 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.265	29.04	25.79
1720.00	132072	Low	front	6 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.293	28.60	
1720.00	132072	Low	bottom	12 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.293	28.60	
1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.560	25.79	
1720.00	132072	Low	left	0 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.270	28.96	

**Table A-33**  
**DSI = 0  $P_{Limit}$  Calculations – LTE Band 2 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
1860.00	18700	Low	back	8 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.241	29.15	25.81
1860.00	18700	Low	front	6 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.256	28.89	
1860.00	18700	Low	bottom	12 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.324	27.86	
1860.00	18700	Low	right	0 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.520	25.81	
1860.00	18700	Low	left	0 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.340	27.65	

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**Table A-34**  
**DSI = 0  $P_{Limit}$  Calculations – LTE Band 41 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
2593.00	40620	Mid	back	8 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.231	29.96	23.34
2593.00	40620	Mid	front	6 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.217	30.23	
2593.00	40620	Mid	bottom	12 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.250	29.62	
2593.00	40620	Mid	right	0 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	1.060	23.34	
2593.00	40620	Mid	left	0 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.290	28.97	

**Table A-35**  
**DSI = 0  $P_{Limit}$  Calculations – NR Band n5 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
836.50	167300	Mid	back	8 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.252	33.76	27.68
836.50	167300	Mid	front	6 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.214	34.47	
836.50	167300	Mid	bottom	12 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.189	35.01	
836.50	167300	Mid	right	0 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	1.020	27.68	
836.50	167300	Mid	left	0 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.240	33.97	

**Table A-36**  
**DSI = 0 and DSI = 1  $P_{Limit}$  Calculations – NR Band n41 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.												(W/kg)			
2592.99	518598	Mid	back	0 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.890	22.88	19.96
2592.99	518598	Mid	front	0 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.530	25.13	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	1.460	20.73	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	135	69	18.42	1:1	1.460	20.76	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	270	0	18.31	1:1	1.480	20.59	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	100	CP-OFDM	QPSK	1	1	18.23	1:1	1.680	19.96	
2592.99	518598	Mid	right	0 mm	NR Band n41	F	100	DFT-S-OFDM	QPSK	1	137	18.39	1:1	0.090	32.83	

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**Table A-37**  
**DSI = 1  $P_{Limit}$  Calculations – GPRS Phablet SAR**

MEASUREMENT RESULTS												
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	# of Time Slots	Conducted Power [dBm]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.									(W/kg)		
824.20	128	back	0 mm	GSM 850	GPRS	A	3	28.93	1:2.76	1.428	26.93	26.93
824.20	128	front	0 mm	GSM 850	GPRS	A	3	28.93	1:2.76	1.105	28.05	
824.20	128	bottom	0 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.790	29.50	
824.20	128	right	0 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.892	28.98	
824.20	128	left	0 mm	GSM 850	GPRS	A	3	28.93	1:2.76	0.330	33.29	
1880.00	661	back	0 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	1.080	22.24	22.24
1880.00	661	front	0 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.790	23.60	
1880.00	661	bottom	0 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	1.070	22.28	
1880.00	661	right	0 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.150	30.82	
1880.00	661	left	0 mm	GSM 1900	GPRS	A	4	21.78	1:2.076	0.080	33.55	

**Table A-38**  
**DSI = 1  $P_{Limit}$  Calculations – UMTS Phablet SAR**

MEASUREMENT RESULTS												
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Conducted Power [dBm]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.								(W/kg)			
836.60	4183	back	0 mm	UMTS 850	RMC	A	23.93	1:1	1.410	26.42	26.42	
836.60	4183	front	0 mm	UMTS 850	RMC	A	23.93	1:1	0.998	27.92		
836.60	4183	bottom	0 mm	UMTS 850	RMC	A	23.93	1:1	0.710	29.40		
836.60	4183	right	0 mm	UMTS 850	RMC	A	23.93	1:1	0.690	29.52		
836.60	4183	left	0 mm	UMTS 850	RMC	A	23.93	1:1	0.300	33.14		

**Table A-39**  
**DSI = 1  $P_{Limit}$  Calculations – LTE Band 12 Phablet SAR**

MEASUREMENT RESULTS															
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.												(W/kg)		
707.50	23095	Mid	back	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	1.690	26.14	26.14
707.50	23095	Mid	front	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	1.350	27.12	
707.50	23095	Mid	bottom	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	1.422	26.89	
707.50	23095	Mid	right	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	1.210	27.59	
707.50	23095	Mid	left	LTE Band 12	A	10	QPSK	1	49	24.44	0	1:1	0.120	37.63	

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**Table A-40**  
**DSI = 1  $P_{Limit}$  Calculations – LTE Band 13 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
782.00	23230	Mid	back	0 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	1.404	26.82	25.91
782.00	23230	Mid	front	0 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	1.160	27.64	
782.00	23230	Mid	bottom	0 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	1.730	25.91	
782.00	23230	Mid	right	0 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	1.002	28.28	
782.00	23230	Mid	left	0 mm	LTE Band 13	A	10	QPSK	1	0	24.31	0	1:1	0.240	34.49	

**Table A-41**  
**DSI = 1  $P_{Limit}$  Calculations – LTE Band 26 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
831.50	26865	Mid	back	0 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	1.403	26.68	26.38
831.50	26865	Mid	front	0 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	1.502	26.38	
831.50	26865	Mid	bottom	0 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	1.302	27.00	
831.50	26865	Mid	right	0 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	1.298	27.02	
831.50	26865	Mid	left	0 mm	LTE Band 26 (Cell)	A	15	QPSK	1	36	24.17	0	1:1	0.270	33.84	

**Table A-42**  
**DSI = 1  $P_{Limit}$  Calculations – LTE Band 66 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
1720.00	132072	Low	back	0 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	1.290	22.16	21.19
1720.00	132072	Low	back	0 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	0	1:1	1.310	22.03	
1720.00	132072	Low	front	0 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	1.198	22.48	
1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	1.550	21.37	
1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.22	0	1:1	1.590	21.19	
1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	20	QPSK	50	0	19.19	0	1:1	1.540	21.29	
1770.00	132572	High	bottom	0 mm	LTE Band 66 (AWS)	A	20	QPSK	50	25	19.03	0	1:1	1.340	21.74	
1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.560	25.79	
1720.00	132072	Low	left	0 mm	LTE Band 66 (AWS)	A	20	QPSK	1	99	19.29	0	1:1	0.270	28.96	

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**Table A-43**  
**DSI = 1  $P_{Limit}$  Calculations – LTE Band 2 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
1860.00	18700	Low	back	0 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	1.300	21.83	21.62
1860.00	18700	Low	front	0 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.950	23.19	
1860.00	18700	Low	bottom	0 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	1.330	21.73	
1860.00	18700	Low	bottom	0 mm	LTE Band 2 (PCS)	A	20	QPSK	50	50	18.96	0	1:1	1.330	21.70	
1880.00	18900	Mid	bottom	0 mm	LTE Band 2 (PCS)	A	20	QPSK	50	0	18.94	0	1:1	1.340	21.65	
1900.00	19100	High	bottom	0 mm	LTE Band 2 (PCS)	A	20	QPSK	50	0	18.88	0	1:1	1.330	21.62	
1860.00	18700	Low	right	0 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.520	25.81	
1860.00	18700	Low	left	0 mm	LTE Band 2 (PCS)	A	20	QPSK	1	99	18.99	0	1:1	0.340	27.65	

**Table A-44**  
**DSI = 1  $P_{Limit}$  Calculations – LTE Band 41 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
2593.00	40620	Mid	back	0 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	1.100	23.18	21.47
2593.00	40620	Mid	front	0 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	1.190	22.84	
2506.00	39750	Low	bottom	0 mm	LTE Band 41	B	20	QPSK	1	50	21.25	0	1:1.58	1.500	21.48	
2549.50	40185	Low-Mid	bottom	0 mm	LTE Band 41	B	20	QPSK	1	99	21.33	0	1:1.58	1.370	21.96	
2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	1.400	22.13	
2636.50	41055	Mid-High	bottom	0 mm	LTE Band 41	B	20	QPSK	1	0	21.34	0	1:1.58	1.310	22.16	
2680.00	41490	High	bottom	0 mm	LTE Band 41	B	20	QPSK	1	0	21.13	0	1:1.58	1.140	22.56	
2506.00	39750	Low	bottom	0 mm	LTE Band 41	B	20	QPSK	50	0	21.35	0	1:1.58	1.540	21.47	
2506.00	39750	Low	bottom	0 mm	LTE Band 41	B	20	QPSK	50	50	21.30	0	1:1.58	1.440	21.71	
2549.50	40185	Low-Mid	bottom	0 mm	LTE Band 41	B	20	QPSK	50	50	21.43	0	1:1.58	1.380	22.03	
2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	20	QPSK	50	25	21.69	0	1:1.58	1.440	22.10	
2636.50	41055	Mid-High	bottom	0 mm	LTE Band 41	B	20	QPSK	50	0	21.48	0	1:1.58	1.300	22.34	
2680.00	41490	High	bottom	0 mm	LTE Band 41	B	20	QPSK	50	25	21.25	0	1:1.58	1.120	22.75	
2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	20	QPSK	100	0	21.55	0	1:1.58	1.420	22.02	
2593.00	40620	Mid	right	0 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	1.060	23.34	
2593.00	40620	Mid	left	0 mm	LTE Band 41	B	20	QPSK	1	99	21.60	0	1:1.58	0.290	28.97	

**Table A-45**  
**DSI = 1  $P_{Limit}$  Calculations – NR Band n5 Phablet SAR**

MEASUREMENT RESULTS																
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
836.50	167300	Mid	back	0 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	1.310	26.60	26.60
836.50	167300	Mid	front	0 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	1.170	27.09	
836.50	167300	Mid	bottom	0 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.960	27.95	
836.50	167300	Mid	right	0 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	1.020	27.68	
836.50	167300	Mid	left	0 mm	NR Band n5	A	20	DFT-S-OFDM	QPSK	1	104	23.79	1:1	0.240	33.97	

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<b>Document S/N:</b> 1M2212080137-21.A3L	<b>DUT Type:</b> Portable Handset	APPENDIX A: Page 16 of 16