LTE FDD Band 14 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
793	23330	QPSK	A	Open	10	24.0	23.17	0.06	Rear	0	1	0	1:1		10	0.385	1.211	0.466	-
793	23330	QPSK	A	Open	10	23.0	22.16	0.01	Rear	1	25	0	1:1		10	0.296	1.213	0.359	-
793	23330	QPSK	A	Open	10	24.0	23.17	-0.09	Front	0	1	0	1:1		10	0.248	1.211	0.300	-
793	23330	QPSK	A	Open	10	23.0	22.16	-0.02	Front	1	25	0	1:1		10	0.194	1.213	0.235	-
793	23330	QPSK	A	Open	10	24.0	23.17	-0.04	Left	0	1	0	1:1		10	0.116	1.211	0.140	-
793	23330	QPSK	A	Open	10	23.0	22.16	0.01	Left	1	25	0	1:1		10	0.087	1.213	0.106	-
793	23330	QPSK	A	Open	10	24.0	23.17	-0.08	Right	0	1	0	1:1		10	0.239	1.211	0.289	-
793	23330	QPSK	A	Open	10	23.0	22.16	0.01	Right	1	25	0	1:1		10	0.197	1.213	0.239	-
793	23330	QPSK	A	Open	10	24.0	23.17	-0.10	Bottom	0	1	0	1:1		10	0.432	1.211	0.523	-
793	23330	QPSK	A	Open	10	23.0	22.16	-0.14	Bottom	1	25	0	1:1		10	0.342	1.213	0.415	-
793	23330	QPSK	A	Close	10	24.0	23.17	-0.08	Rear	0	1	0	1:1		5	0.727	1.211	**0.880**	C9
793	23330	QPSK	A	Close	10	23.0	22.16	-0.05	Rear	1	25	0	1:1		5	0.537	1.213	0.651	-
793	23330	QPSK	A	Close	10	23.0	22.18	-0.04	Rear	1	50	0	1:1		5	0.552	1.208	0.667	-
793	23330	QPSK	A	Close	10	24.0	23.17	0.02	Front	0	1	0	1:1		5	0.230	1.211	0.279	-
793	23330	QPSK	A	Close	10	23.0	22.16	0.10	Front	1	25	0	1:1		5	0.181	1.213	0.220	-
793	23330	QPSK	A	Close	10	24.0	23.17	0.04	Left	0	1	0	1:1		5	0.121	1.211	0.147	-
793	23330	QPSK	A	Close	10	23.0	22.16	0.12	Left	1	25	0	1:1		5	0.090	1.213	0.109	-
793	23330	QPSK	A	Close	10	24.0	23.17	-0.03	Right	0	1	0	1:1		5	0.078	1.211	0.094	-
793	23330	QPSK	A	Close	10	23.0	22.16	0.18	Right	1	25	0	1:1		5	0.056	1.213	0.068	-
793	23330	QPSK	A	Close	10	24.0	23.17	0.12	Bottom	0	1	0	1:1		5	0.302	1.211	0.366	-
793	23330	QPSK	A	Close	10	23.0	22.16	0.16	Bottom	1	25	0	1:1		5	0.226	1.213	0.274	-

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

LTE FDD Band 25 (PCS) Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 860	26140	QPSK	A	Open	20	16.3	15.63	0.15	Rear	0	1	49	1:1		10	0.280	1.167	0.327	-
1 882.5	26365	QPSK	A	Open	20	16.3	15.65	0.17	Rear	0	50	25	1:1		10	0.254	1.161	0.295	-
1 860	26140	QPSK	A	Open	20	16.3	15.63	0.14	Front	0	1	49	1:1		10	0.200	1.167	0.233	-
1 882.5	26365	QPSK	A	Open	20	16.3	15.65	0.13	Front	0	50	25	1:1		10	0.185	1.161	0.215	-
1 860	26140	QPSK	A	Open	20	16.3	15.63	-0.17	Left	0	1	49	1:1		10	0.044	1.167	0.051	-
1 882.5	26365	QPSK	A	Open	20	16.3	15.65	-0.11	Left	0	50	25	1:1		10	0.055	1.161	0.064	-
1 860	26140	QPSK	A	Open	20	16.3	15.63	-0.13	Right	0	1	49	1:1		10	0.022	1.167	0.026	-
1 882.5	26365	QPSK	A	Open	20	16.3	15.65	-0.14	Right	0	50	25	1:1		10	0.021	1.161	0.024	-
1 860	26140	QPSK	A	Open	20	16.3	15.63	0.12	Bottom	0	1	49	1:1		10	0.489	1.167	0.571	-
1 882.5	26365	QPSK	A	Open	20	16.3	15.65	0.09	Bottom	0	50	25	1:1		10	0.497	1.161	0.577	-
1 860	26140	QPSK	A	Close	20	16.3	15.63	0.10	Rear	0	1	49	1:1		5	0.359	1.167	0.419	-
1 882.5	26365	QPSK	A	Close	20	16.3	15.65	-0.19	Rear	0	50	25	1:1		5	0.467	1.161	0.542	-
1 860	26140	QPSK	A	Close	20	16.3	15.63	0.00	Front	0	1	49	1:1		5	0.023	1.167	0.027	-
1 882.5	26365	QPSK	A	Close	20	16.3	15.65	0.00	Front	0	50	25	1:1		5	0.047	1.161	0.055	-
1 860	26140	QPSK	A	Close	20	16.3	15.63	0.11	Left	0	1	49	1:1		5	0.037	1.167	0.043	-
1 882.5	26365	QPSK	A	Close	20	16.3	15.63	0.16	Left	0	50	25	1:1		5	0.033	1.167	0.039	-
1 860	26140	QPSK	A	Close	20	16.3	15.65	-0.14	Right	0	1	49	1:1		5	0.016	1.161	0.019	-
1 882.5	26365	QPSK	A	Close	20	16.3	15.63	-0.05	Right	0	50	25	1:1		5	0.019	1.167	0.022	-
1 860	26140	QPSK	A	Close	20	16.3	15.65	0.18	Bottom	0	1	49	1:1		5	0.513	1.161	0.596	-
1 882.5	26365	QPSK	A	Close	20	16.3	15.63	0.10	Bottom	0	50	25	1:1		5	0.608	1.167	**0.710**	**C10**
1 882.5	26365	QPSK	I	Open	20	16.5	16.09	0.19	Rear	0	1	0	1:1		10	0.162	1.099	0.178	-
1 860	26140	QPSK	I	Open	20	16.5	15.88	0.19	Rear	0	50	25	1:1		10	0.164	1.153	0.189	-
1 882.5	26365	QPSK	I	Open	20	16.5	16.09	0.18	Front	0	1	0	1:1		10	0.140	1.099	0.154	-
1 860	26140	QPSK	I	Open	20	16.5	15.88	0.19	Front	0	50	25	1:1		10	0.142	1.153	0.164	-
1 882.5	26365	QPSK	I	Open	20	16.5	16.09	-0.06	Right	0	1	0	1:1		10	0.302	1.099	0.332	-
1 860	26140	QPSK	I	Open	20	16.5	15.88	0.01	Right	0	50	25	1:1		10	0.301	1.153	0.347	-
1 882.5	26365	QPSK	I	Open	20	16.5	16.09	-0.02	Top	0	1	0	1:1		10	0.024	1.099	0.026	-
1 860	26140	QPSK	I	Open	20	16.5	15.88	0.03	Top	0	50	25	1:1		10	0.031	1.153	0.036	-
1 882.5	26365	QPSK	I	Close	20	16.5	16.09	-0.15	Rear	0	1	0	1:1		5	0.036	1.099	0.040	-
1 860	26140	QPSK	I	Close	20	16.5	15.88	0.10	Rear	0	50	25	1:1		5	0.036	1.153	0.042	-
1 882.5	26365	QPSK	I	Close	20	16.5	16.09	0.05	Front	0	1	0	1:1		5	0.414	1.099	0.455	-
1 860	26140	QPSK	I	Close	20	16.5	15.88	-0.11	Front	0	50	25	1:1		5	0.404	1.153	0.466	-
1 882.5	26365	QPSK	I	Close	20	16.5	16.09	0.18	Right	0	1	0	1:1		5	0.526	1.099	0.578	-
1 860	26140	QPSK	I	Close	20	16.5	15.88	0.14	Right	0	50	25	1:1		5	0.524	1.153	0.604	-
1 882.5	26365	QPSK	I	Close	20	16.5	16.09	0	Top	0	1	0	1:1		5	0.000	1.099	0.000	-
1 860	26140	QPSK	I	Close	20	16.5	15.88	0	Top	0	50	25	1:1		5	0.000	1.153	0.000	-
1 882.5	26365	QPSK	I	Close	20	16.5	16.09	-0.12	Bottom	0	1	0	1:1		5	0.025	1.099	0.028	-
1 860	26140	QPSK	I	Close	20	16.5	15.88	-0.08	Bottom	0	50	25	1:1		5	0.033	1.153	0.038	-

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

LTE FDD Band 26 (Cell) Hotspot SAR																		
Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
831.5	26865	QPSK	A	Open	15	23.5	22.44	0.10	Rear	0	1	36	1:1		10	0.317	1.276	0.404	-
831.5	26865	QPSK	A	Open	15	23.5	22.47	0.03	Rear	0	36	18	1:1		10	0.311	1.268	0.394	-
831.5	26865	QPSK	A	Open	15	23.5	22.44	0.03	Front	0	1	36	1:1		10	0.200	1.276	0.255	-
831.5	26865	QPSK	A	Open	15	23.5	22.47	-0.02	Front	0	36	18	1:1		10	0.196	1.268	0.249	-
831.5	26865	QPSK	A	Open	15	23.5	22.44	0.00	Left	0	1	36	1:1		10	0.170	1.276	0.217	-
831.5	26865	QPSK	A	Open	15	23.5	22.47	0.04	Left	0	36	18	1:1		10	0.167	1.268	0.212	-
831.5	26865	QPSK	A	Open	15	23.5	22.44	0.01	Right	0	1	36	1:1		10	0.214	1.276	0.273	-
831.5	26865	QPSK	A	Open	15	23.5	22.47	-0.03	Right	0	36	18	1:1		10	0.212	1.268	0.269	-
831.5	26865	QPSK	A	Open	15	23.5	22.44	-0.06	Bottom	0	1	36	1:1		10	0.342	1.276	0.436	-
831.5	26865	QPSK	A	Open	15	23.5	22.47	-0.15	Bottom	0	36	18	1:1		10	0.335	1.268	0.425	-
831.5	26865	QPSK	A	Close	15	23.5	22.44	0.16	Rear	0	1	36	1:1		5	0.415	1.276	0.530	-
831.5	26865	QPSK	A	Close	15	23.5	22.47	0.00	Rear	0	36	18	1:1		5	0.566	1.268	**0.718**	C11
831.5	26865	QPSK	A	Close	15	23.5	22.44	-0.07	Front	0	1	36	1:1		5	0.085	1.276	0.108	-
831.5	26865	QPSK	A	Close	15	23.5	22.47	0.19	Front	0	36	18	1:1		5	0.066	1.268	0.084	-
831.5	26865	QPSK	A	Close	15	23.5	22.44	-0.18	Left	0	1	36	1:1		5	0.120	1.276	0.153	-
831.5	26865	QPSK	A	Close	15	23.5	22.47	-0.10	Left	0	36	18	1:1		5	0.124	1.268	0.157	-
831.5	26865	QPSK	A	Close	15	23.5	22.44	-0.08	Right	0	1	36	1:1		5	0.109	1.276	0.139	-
831.5	26865	QPSK	A	Close	15	23.5	22.47	0.13	Right	0	36	18	1:1		5	0.104	1.268	0.132	-
831.5	26865	QPSK	A	Close	15	23.5	22.44	0.12	Bottom	0	1	36	1:1		5	0.285	1.276	0.364	-
831.5	26865	QPSK	A	Close	15	23.5	22.47	0.11	Bottom	0	36	18	1:1		5	0.281	1.268	0.356	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 30 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 310	27710	QPSK	B	Open	10	15.0	13.98	0.00	Rear	0	1	0	1:1		10	0.116	1.265	0.147	-
2 310	27710	QPSK	B	Open	10	15.0	14.11	0.00	Rear	0	25	24	1:1		10	0.119	1.227	0.146	-
2 310	27710	QPSK	B	Open	10	15.0	13.98	0.00	Front	0	1	0	1:1		10	0.083	1.265	0.105	-
2 310	27710	QPSK	B	Open	10	15.0	14.11	0.00	Front	0	25	24	1:1		10	0.086	1.227	0.106	-
2 310	27710	QPSK	B	Open	10	15.0	13.98	0.17	Left	0	1	0	1:1		10	0.030	1.265	0.038	-
2 310	27710	QPSK	B	Open	10	15.0	14.11	0.09	Left	0	25	24	1:1		10	0.033	1.227	0.040	-
2 310	27710	QPSK	B	Open	10	15.0	13.98	0.12	Bottom	0	1	0	1:1		10	0.331	1.265	0.419	-
2 310	27710	QPSK	B	Open	10	15.0	14.11	0.05	Bottom	0	25	24	1:1		10	0.347	1.227	0.426	-
2 310	27710	QPSK	B	Close	10	15.0	13.98	0.00	Rear	0	1	0	1:1		5	0.239	1.265	0.302	-
2 310	27710	QPSK	B	Close	10	15.0	14.11	0.00	Rear	0	25	24	1:1		5	0.251	1.227	0.308	-
2 310	27710	QPSK	B	Close	10	15.0	13.98	0.00	Front	0	1	0	1:1		5	0.016	1.265	0.020	-
2 310	27710	QPSK	B	Close	10	15.0	14.11	0.00	Front	0	25	24	1:1		5	0.015	1.227	0.018	-
2 310	27710	QPSK	B	Close	10	15.0	13.98	0.17	Left	0	1	0	1:1		5	0.087	1.265	0.110	-
2 310	27710	QPSK	B	Close	10	15.0	14.11	0.18	Left	0	25	24	1:1		5	0.091	1.227	0.112	-
2 310	27710	QPSK	B	Close	10	15.0	13.98	0.06	Bottom	0	1	0	1:1		5	0.459	1.265	0.581	-
2 310	27710	QPSK	B	Close	10	15.0	14.11	0.15	Bottom	0	25	24	1:1		5	0.465	1.227	0.571	-
2 310	27710	QPSK	I	Open	10	18.5	18.11	0.12	Rear	0	1	0	1:1		10	0.205	1.094	0.224	-
2 310	27710	QPSK	I	Open	10	18.5	18.02	0.11	Rear	0	25	24	1:1		10	0.202	1.117	0.226	-
2 310	27710	QPSK	I	Open	10	18.5	18.11	-0.08	Front	0	1	0	1:1		10	0.248	1.094	0.271	-
2 310	27710	QPSK	I	Open	10	18.5	18.02	-0.09	Front	0	25	24	1:1		10	0.251	1.117	0.280	-
2 310	27710	QPSK	I	Open	10	18.5	18.11	0.05	Right	0	1	0	1:1		10	0.364	1.094	0.398	-
2 310	27710	QPSK	I	Open	10	18.5	18.02	0.18	Right	0	25	24	1:1		10	0.415	1.117	0.464	-
2 310	27710	QPSK	I	Open	10	18.5	18.11	0.12	Top	0	1	0	1:1		10	0.04	1.094	0.044	-
2 310	27710	QPSK	I	Open	10	18.5	18.02	0.18	Top	0	25	24	1:1		10	0.042	1.117	0.047	-
2 310	27710	QPSK	I	Close	10	18.5	18.11	0.07	Rear	0	1	0	1:1		5	0.121	1.094	0.132	-
2 310	27710	QPSK	I	Close	10	18.5	18.02	0.15	Rear	0	25	24	1:1		5	0.126	1.117	0.141	-
2 310	27710	QPSK	I	Close	10	18.5	18.11	-0.10	Front	0	1	0	1:1		5	0.474	1.094	0.519	-
2 310	27710	QPSK	I	Close	10	18.5	18.02	-0.12	Front	0	25	24	1:1		5	0.474	1.117	0.529	-
2 310	27710	QPSK	I	Close	10	18.5	18.11	0.18	Right	0	1	0	1:1		5	0.711	1.094	0.778	-
2 310	27710	QPSK	I	Close	10	18.5	18.02	0.02	Right	0	25	24	1:1		5	0.713	1.117	**0.796**	C12
2 310	27710	QPSK	I	Close	10	18.5	18.11	-0.11	Top	0	1	0	1:1		5	0.031	1.094	0.034	-
2 310	27710	QPSK	I	Close	10	18.5	18.02	0.05	Top	0	25	24	1:1		5	0.033	1.117	0.037	-
2 310	27710	QPSK	I	Close	10	18.5	18.11	-0.07	Bottom	0	1	0	1:1		5	0.078	1.094	0.085	-
2 310	27710	QPSK	I	Close	10	18.5	18.02	0.15	Bottom	0	25	24	1:1		5	0.072	1.117	0.080	-

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

LTE TDD Band 41 Hotspot SAR

CC UL PC	Frequency		Mode	Form Factor	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.05	0.00	Rear	0	1	99	1:1.58		10	0.110	1.245	0.137	-
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.12	0.00	Rear	0	50	49	1:1.58		10	0.115	1.225	0.141	-
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.05	0.00	Front	0	1	99	1:1.58		10	0.083	1.245	0.103	-
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.12	0.00	Front	0	50	49	1:1.58		10	0.084	1.225	0.103	-
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.05	0.15	Left	0	1	99	1:1.58		10	0.024	1.245	0.030	-
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.12	-0.13	Left	0	50	49	1:1.58		10	0.023	1.225	0.028	-
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.05	-0.05	Bottom	0	1	99	1:1.58		10	0.378	1.245	0.471	-
1CC UL PC3	2 506	39750	QPSK	Open	B	20	18.0	17.12	0.09	Bottom	0	50	49	1:1.58		10	0.389	1.225	0.477	-
1CC UL PC2	2 506	39750	QPSK	Open	B	20	19.6	18.79	0.11	Bottom	0	50	49	1:2.31		10	0.332	1.205	0.400	-
2CC UL CA PC3	PCC 2 506	39750	QPSK	Open	B	20	18.0	17.4	0.03	Bottom	0	50	49	1:1.58		10	0.331	1.148	0.380	•
	SCC 2 525.8	39948	QPSK			20					0	50	0							
2CC UL CA PC2	PCC 2 506	39750	QPSK	Open	B	20	19.6	18.82	-0.10	Bottom	0	50	49	1:2.31		10	0.329	1.197	0.394	••
	SCC 2 525.8	39948	QPSK			20					0	50	0							
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.05	0.00	Rear	0	1	99	1:1.58		5	0.205	1.245	0.255	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.12	0.00	Rear	0	50	49	1:1.58		5	0.211	1.225	0.258	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.05	0.00	Front	0	1	99	1:1.58		5	0.027	1.245	0.034	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.12	0.00	Front	0	50	49	1:1.58		5	0.027	1.225	0.033	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.05	0.17	Left	0	1	99	1:1.58		5	0.101	1.245	0.126	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.12	0.14	Left	0	50	49	1:1.58		5	0.106	1.225	0.130	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.05	0.09	Bottom	0	1	99	1:1.58		5	0.475	1.245	0.591	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.12	0.13	Bottom	0	50	49	1:1.58		5	0.496	1.225	0.608	-
1CC UL PC3	2 549.5	40185	QPSK	Close	B	20	18.0	16.84	0.13	Bottom	0	50	0	1:1.58		5	0.495	1.306	0.646	-
1CC UL PC3	2 593	40620	QPSK	Close	B	20	18.0	16.79	0.15	Bottom	0	50	0	1:1.58		5	0.517	1.321	0.683	-
1CC UL PC3	2 636.5	41055	QPSK	Close	B	20	18.0	16.79	0.17	Bottom	0	50	0	1:1.58		5	0.364	1.321	0.481	-
1CC UL PC3	2 680	41490	QPSK	Close	B	20	18.0	16.59	0.09	Bottom	0	50	0	1:1.58		5	0.334	1.384	0.462	-
1CC UL PC3	2 506	39750	QPSK	Close	B	20	18.0	17.07	0.16	Bottom	0	100	0	1:1.58		5	0.504	1.239	0.624	-
1CC UL PC2	2 593	40620	QPSK	Close	B	20	19.6	18.50	0.17	Bottom	0	50	0	1:2.31		5	0.538	1.288	0.693	-
2CC UL CA PC3	PCC 2 593	40620	QPSK	Close	B	20	18.0	17.01	0.01	Bottom	0	50	0	1:1.58		5	0.506	1.256	0.636	•
	SCC 2 573.2	40422	QPSK			20					0	50	49							
2CC UL CA PC2	PCC 2 593	40620	QPSK	Close	B	20	19.6	18.62	0.15	Bottom	0	50	0	1:2.31		5	0.518	1.253	0.649	••
	SCC 2 573.2	40422	QPSK			20					0	50	49							

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LTE TDD Band 41 Hotspot SAR

CC UL PC	Frequency		Mode	Form Factor	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.87	-0.02	Rear	0	1	0	1:1.58		10	0.128	1.156	0.148	-
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.88	0.12	Rear	0	50	0	1:1.58		10	0.129	1.153	0.149	-
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.87	-0.11	Front	0	1	0	1:1.58		10	0.107	1.156	0.124	-
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.88	-0.03	Front	0	50	0	1:1.58		10	0.106	1.153	0.122	-
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.87	0.02	Right	0	1	0	1:1.58		10	0.198	1.156	0.229	-
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.88	-0.06	Right	0	50	0	1:1.58		10	0.200	1.153	0.231	-
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.87	0.01	Top	0	1	0	1:1.58		10	0.024	1.156	0.028	-
1CC UL PC3	2 680	41490	QPSK	Open	I	20	19.5	18.88	-0.02	Top	0	50	0	1:1.58		10	0.023	1.153	0.027	-
1CC UL PC2	2 680	41490	QPSK	Open	I	20	21.1	20.64	-0.11	Right	0	50	0	1:2.31		10	0.200	1.112	0.222	-
2CC UL CA PC3(41C)	PCC 2 680	41490	QPSK	Open	I	20	19.5	18.83	0.12	Right	0	50	0	1:1.58		10	0.203	1.167	0.237	•
	SCC 2 660.2	41292	QPSK			20					0	50	49							
2CC UL CA PC2(41C)	PCC 2 680	41490	QPSK	Open	I	20	21.1	20.54	-0.06	Right	0	50	0	1:2.31		10	0.203	1.138	0.231	••
	SCC 2 660.2	41292	QPSK			20					0	50	49							
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.87	0.15	Rear	0	1	0	1:1.58		5	0.151	1.156	0.175	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.88	0.05	Rear	0	50	0	1:1.58		5	0.152	1.153	0.175	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.87	-0.18	Front	0	1	0	1:1.58		5	0.368	1.156	0.425	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.88	-0.10	Front	0	50	0	1:1.58		5	0.364	1.153	0.420	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.87	0.15	Right	0	1	0	1:1.58		5	0.651	1.156	0.753	-
1CC UL PC3	2506	39750	QPSK	Close	I	20	19.5	18.71	0.14	Right	0	1	49	1:1.58		5	0.583	1.199	0.699	-
1CC UL PC3	2549.5	40185	QPSK	Close	I	20	19.5	18.72	-0.02	Right	0	1	0	1:1.58		5	0.594	1.197	0.711	-
1CC UL PC3	2593	40620	QPSK	Close	I	20	19.5	18.79	-0.06	Right	0	1	49	1:1.58		5	0.574	1.178	0.676	-
1CC UL PC3	2636.5	41055	QPSK	Close	I	20	19.5	18.85	-0.09	Right	0	1	0	1:1.58		5	0.601	1.161	0.698	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.88	-0.12	Right	0	50	0	1:1.58		5	0.666	1.153	0.768	-
1CC UL PC3	2506	39750	QPSK	Close	I	20	19.5	18.72	-0.13	Right	0	50	49	1:1.58		5	0.590	1.197	0.706	-
1CC UL PC3	2549.5	40185	QPSK	Close	I	20	19.5	18.83	-0.12	Right	0	50	25	1:1.58		5	0.593	1.167	0.692	-
1CC UL PC3	2593	40620	QPSK	Close	I	20	19.5	18.75	-0.15	Right	0	50	25	1:1.58		5	0.580	1.189	0.690	-
1CC UL PC3	2636.5	41055	QPSK	Close	I	20	19.5	18.69	0.15	Right	0	50	25	1:1.58		5	0.573	1.205	0.690	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.86	-0.11	Right	0	100	0	1:1.58		5	0.630	1.159	0.730	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.87	-0.07	Top	0	1	0	1:1.58		5	0.038	1.156	0.044	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.88	-0.18	Top	0	50	0	1:1.58		5	0.036	1.153	0.042	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.87	-0.15	Bottom	0	1	0	1:1.58		5	0.061	1.156	0.071	-
1CC UL PC3	2680	41490	QPSK	Close	I	20	19.5	18.88	-0.10	Bottom	0	50	0	1:1.58		5	0.059	1.153	0.068	-
1CC UL PC2	2680	41490	QPSK	Close	I	20	21.1	20.64	0.15	Right	0	50	0	1:2.31		5	0.726	1.112	0.807	-
2CC UL CA PC3 (41C)	PCC 2 680.0	41490	QPSK	Close	I	20	19.5	18.83	0.14	Right	0	50	0	1:1.58		5	0.650	1.167	0.759	•
	SCC 2 660.2	41292	QPSK			20					0	50	49							
2CC UL CA PC2(41C)	PCC 2 680.0	41490	QPSK	Close	I	20	21.1	20.54	0.10	Right	0	50	0	1:2.31		5	0.739	1.138	**0.841**	C13••
	SCC 2 660.2	41292	QPSK			20					0	50	49							

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

•Up-link Carrier Aggregation Power Class 3 (41C)

•• Up-link Carrier Aggregation Power Class 2 (HPUE) (41C)

LTE TDD Band 48 Hotspot SAR

	Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset			(mm)	(W/kg)		(W/kg)	
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.11	-0.13	Rear	0	1	99	1:1.58		10	0.183	1.094	0.200	-
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.09	-0.14	Rear	0	50	49	1:1.58		10	0.199	1.099	0.219	-
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.11	0.00	Front	0	1	99	1:1.58		10	0.100	1.094	0.109	-
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.09	0.00	Front	0	50	49	1:1.58		10	0.111	1.099	0.122	-
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.11	0.09	Left	0	1	99	1:1.58		10	0.183	1.094	0.200	-
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.09	-0.13	Left	0	50	49	1:1.58		10	0.228	1.099	0.251	-
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.11	0.02	Top	0	1	99	1:1.58		10	0.118	1.094	0.129	-
1CC UL	3 560	55340	QPSK	F	Open	20	18.5	18.09	0.14	Top	0	50	49	1:1.58		10	0.132	1.099	0.145	-
2CC UL (48C)	PCC 3560	55340	QPSK	F	Open	20	18.5	18.03	0.17	Left	0	50	49	1:1.58		10	0.163	1.114	0.182	•
	SCC 3579.80	55538	QPSK	F	Open	20					0	50	0							
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.11	-0.16	Rear	0	1	99	1:1.58		5	0.038	1.094	0.042	-
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.09	0.06	Rear	0	50	49	1:1.58		5	0.042	1.099	0.046	-
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.11	0.19	Front	0	1	99	1:1.58		5	0.327	1.094	0.358	-
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.09	0.11	Front	0	50	49	1:1.58		5	0.345	1.099	0.379	-
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.11	-0.04	Left	0	1	99	1:1.58		5	0.474	1.094	0.519	-
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.09	-0.18	Left	0	50	49	1:1.58		5	0.520	1.099	0.571	-
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.11	-0.16	Bottom	0	1	99	1:1.58		5	0.243	1.094	0.266	-
1CC UL	3 560	55340	QPSK	F	Close	20	18.5	18.09	-0.15	Bottom	0	50	49	1:1.58		5	0.243	1.099	0.267	-
2CC UL (48C)	PCC 3560	55340	QPSK	F	Close	20	18.5	18.03	-0.11	Left	0	50	49	1:1.58		5	0.575	1.114	**0.641**	C14 •
	SCC 3579.80	55538	QPSK	F	Close	20					0	50	0							
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population											Body 1.6 W/kg Averaged over 1 gram									

• Up-link Carrier Aggregation (48C)

LTE FDD Band 66 (AWS) Hotspot SAR

CC UL PC	Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.44	-0.01	Rear	0	1	49	1:1		10	0.220	1.368	0.301	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.39	0.15	Rear	0	50	49	1:1		10	0.229	1.384	0.317	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.44	0.10	Front	0	1	49	1:1		10	0.139	1.368	0.190	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.39	-0.19	Front	0	50	49	1:1		10	0.146	1.384	0.202	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.44	0.14	Left	0	1	49	1:1		10	0.035	1.368	0.048	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.39	-0.10	Left	0	50	49	1:1		10	0.037	1.384	0.051	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.44	-0.18	Right	0	1	49	1:1		10	0.019	1.368	0.026	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.39	-0.16	Right	0	50	49	1:1		10	0.022	1.384	0.030	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.44	0.09	Bottom	0	1	49	1:1		10	0.360	1.368	0.492	-
1CC UL	1 745	132322	QPSK	A	Open	20	17.8	16.39	0.05	Bottom	0	50	49	1:1		10	0.371	1.384	0.513	-
1CC UL	1 717.5	132047	QPSK	A	Open	15	17.8	16.43	0.06	Bottom	0	1	74	1:1		10	0.428	1.371	0.587	-
1CC UL	1 720	132072	QPSK	A	Open	20	17.8	16.40	0.18	Bottom	0	1	99	1:1		10	0.442	1.380	0.610	-
2CC UL (66B)	PCC 1 717.5	132047	QPSK	A	Open	15	17.8	16.38	0.06	Bottom	0	1	74	1:1		10	0.382	1.387	0.530	•
2CC UL (66B)	SCC 1 726.8	132140	QPSK			5					0	1	0							
2CC UL (66C)	PCC 1 720	132072	QPSK	A	Open	20	17.8	16.31	0.05	Bottom	0	1	99	1:1		10	0.392	1.409	0.552	••
2CC UL (66C)	SCC 1 739.8	132270	QPSK			20					0	1	0							
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.44	-0.15	Rear	0	1	49	1:1		5	0.295	1.368	0.404	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.39	-0.15	Rear	0	50	49	1:1		5	0.303	1.384	0.419	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.44	0.18	Front	0	1	49	1:1		5	0.062	1.368	0.085	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.39	0.11	Front	0	50	49	1:1		5	0.068	1.384	0.094	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.44	0.15	Left	0	1	49	1:1		5	0.058	1.368	0.079	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.39	0.13	Left	0	50	49	1:1		5	0.057	1.384	0.079	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.44	0.11	Right	0	1	49	1:1		5	0.012	1.368	0.016	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.39	0.14	Right	0	50	49	1:1		5	0.012	1.384	0.017	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.44	0.14	Bottom	0	1	49	1:1		5	0.516	1.368	0.706	-
1CC UL	1 745	132322	QPSK	A	Close	20	17.8	16.39	0.11	Bottom	0	50	49	1:1		5	0.521	1.384	0.721	-
1CC UL	1 717.5	132047	QPSK	A	Close	15	17.8	16.43	0.10	Bottom	0	1	74	1:1		5	0.596	1.371	0.817	-
1CC UL	1 720	132072	QPSK	A	Close	20	17.8	16.40	0.12	Bottom	0	1	99	1:1		5	0.597	1.380	0.824	-
2CC UL (66B)	PCC 1 717.5	132047	QPSK	A	Close	15	17.8	16.38	0.12	Bottom	0	1	74	1:1		5	0.531	1.387	0.736	•
2CC UL (66B)	SCC 1 726.8	132140	QPSK			5					0	1	0							
2CC UL (66C)	PCC 1 720	132072	QPSK	A	Close	20	17.8	16.31	0.15	Bottom	0	1	99	1:1		5	0.544	1.409	0.766	••
2CC UL (66C)	SCC 1 739.8	132270	QPSK			20					0	1	0							
1CC UL	1 770	132572	QPSK	I	Open	20	17.5	17.31	0.16	Rear	0	1	0	1:1		10	0.257	1.045	0.269	-
1CC UL	1 745	132322	QPSK	I	Open	20	17.5	17.16	0.18	Rear	0	50	49	1:1		10	0.260	1.081	0.281	-
1CC UL	1 770	132572	QPSK	I	Open	20	17.5	17.31	0.19	Front	0	1	0	1:1		10	0.242	1.045	0.253	-
1CC UL	1 745	132322	QPSK	I	Open	20	17.5	17.16	0.10.	Front	0	50	49	1:1		10	0.242	1.081	0.262	-
1CC UL	1 770	132572	QPSK	I	Open	20	17.5	17.31	0.12	Right	0	1	0	1:1		10	0.468	1.045	0.489	-
1CC UL	1 745	132322	QPSK	I	Open	20	17.5	17.16	0.02	Right	0	50	49	1:1		10	0.477	1.081	0.516	-
1CC UL	1 770	132572	QPSK	I	Open	20	17.5	17.31	-0.15	Top	0	1	0	1:1		10	0.033	1.045	0.034	-
1CC UL	1 745	132322	QPSK	I	Open	20	17.5	17.16	0.06	Top	0	50	49	1:1		10	0.030	1.081	0.032	-
1CC UL	1 745	132322	QPSK	I	Open	15	17.5	17.39	0.10	Right	0	1	0	1:1		10	0.301	1.026	0.309	-
2CC UL (66B)	PCC 1 745	132322	QPSK	I	Open	15	17.5	17.05	-0.11	Right	0	1	0	1:1		10	0.274	1.109	0.304	•
2CC UL (66B)	SCC 1 735.7	132229	QPSK			5					0	1	24							
2CC UL (66C)	PCC 1 770	132572	QPSK	I	Open	20	17.5	16.07	-0.17	Right	0	1	0	1:1		10	0.295	1.390	0.410	••
2CC UL (66C)	SCC 1 750.2	132374	QPSK			20					0	1	99							

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LTE FDD Band 66 (AWS) Hotspot SAR

CC UL PC	Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1CC UL	1 770	132572	QPSK	I	Close	20	17.5	17.31	0.06	Rear	0	1	0	1:1		5	0.042	1.045	0.044	-
1CC UL	1 745	132322	QPSK	I	Close	20	17.5	17.16	0.11	Rear	0	50	49	1:1		5	0.042	1.081	0.045	-
1CC UL	1 770	132572	QPSK	I	Close	20	17.5	17.31	0.11	Front	0	1	0	1:1		5	0.555	1.045	0.580	-
1CC UL	1 745	132322	QPSK	I	Close	20	17.5	17.16	0.14	Front	0	50	49	1:1		5	0.530	1.081	0.573	-
1CC UL	1 770	132572	QPSK	I	Close	20	17.5	17.31	0.14	Right	0	1	0	1:1		5	0.704	1.045	0.736	-
1CC UL	1 745	132322	QPSK	I	Close	20	17.5	17.16	0.16	Right	0	50	49	1:1		5	0.682	1.081	0.737	-
1CC UL	1 770	132572	QPSK	I	Close	20	17.5	17.31	0.10	Top	0	1	0	1:1		5	0.000	1.045	0.000	-
1CC UL	1 745	132322	QPSK	I	Close	20	17.5	17.16	-0.17	Top	0	50	49	1:1		5	0.000	1.081	0.000	-
1CC UL	1 770	132572	QPSK	I	Close	20	17.5	17.31	-0.06	Bottom	0	1	0	1:1		5	0.039	1.045	0.041	-
1CC UL	1 770	132572	QPSK	I	Close	20	17.5	17.16	-0.08	Bottom	0	50	49	1:1		5	0.030	1.081	0.032	-
1CC UL	1 745	132322	QPSK	I	Close	15	17.5	17.39	0.13	Right	0	1	0	1:1		5	0.632	1.026	0.648	-
2CC UL (66B) PCC	1 745	132322	QPSK	I	Close	15	17.5	17.05	0.12	Right	0	1	0	1:1		5	0.576	1.109	0.639	-
2CC UL (66B) SCC	1 735.7	132229	QPSK			5					0	1	24							
2CC UL (66C) PCC	1 770	132572	QPSK	I	Close	20	17.5	16.07	0.02	Right	0	1	0	1:1		5	0.654	1.390	**0.909**	C15
2CC UL (66C) SCC	1 750.2	132374	QPSK			20					0	1	99							
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population											Body 1.6 W/kg Averaged over 1 gram									

• Up-link Carrier Aggregation (66B)

•• Up-link Carrier Aggregation (66C)

LTE FDD Band 71 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
680.5	133297	QPSK	A	Open	20	25.0	24.01	0.15	Rear	0	1	99	1:1		10	0.307	1.256	0.386	-
680.5	133297	QPSK	A	Open	20	24.0	22.90	0.07	Rear	0	50	0	1:1		10	0.233	1.288	0.300	-
680.5	133297	QPSK	A	Open	20	25.0	24.01	0.11	Front	0	1	99	1:1		10	0.249	1.256	0.313	-
680.5	133297	QPSK	A	Open	20	24.0	22.90	-0.07	Front	0	50	0	1:1		10	0.193	1.288	0.249	-
680.5	133297	QPSK	A	Open	20	25.0	24.01	-0.09	Left	0	1	99	1:1		10	0.060	1.256	0.075	-
680.5	133297	QPSK	A	Open	20	24.0	22.90	-0.15	Left	0	50	0	1:1		10	0.053	1.288	0.068	-
680.5	133297	QPSK	A	Open	20	25.0	24.01	0.02	Right	0	1	99	1:1		10	0.040	1.256	0.050	-
680.5	133297	QPSK	A	Open	20	24.0	22.90	0.02	Right	0	50	0	1:1		10	0.049	1.288	0.063	-
680.5	133297	QPSK	A	Open	20	25.0	24.01	0.11	Bottom	0	1	99	1:1		10	0.062	1.256	0.078	-
680.5	133297	QPSK	A	Open	20	24.0	22.90	0.16	Bottom	0	50	0	1:1		10	0.056	1.288	0.072	-
680.5	133297	QPSK	A	Close	20	25.0	24.01	-0.01	Rear	0	1	99	1:1		5	0.580	1.256	**0.728**	C16
680.5	133297	QPSK	A	Close	20	24.0	22.90	-0.03	Rear	0	50	0	1:1		5	0.489	1.288	0.630	-
680.5	133297	QPSK	A	Close	20	25.0	24.01	-0.14	Front	0	1	99	1:1		5	0.112	1.256	0.141	-
680.5	133297	QPSK	A	Close	20	24.0	22.90	0.07	Front	0	50	0	1:1		5	0.076	1.288	0.098	-
680.5	133297	QPSK	A	Close	20	25.0	24.01	0.10	Left	0	1	99	1:1		5	0.089	1.256	0.112	-
680.5	133297	QPSK	A	Close	20	24.0	22.90	0.10	Left	0	50	0	1:1		5	0.070	1.288	0.091	-
680.5	133297	QPSK	A	Close	20	25.0	24.01	-0.14	Right	0	1	99	1:1		5	0.049	1.256	0.062	-
680.5	133297	QPSK	A	Close	20	24.0	22.90	0.12	Right	0	50	0	1:1		5	0.047	1.288	0.061	-
680.5	133297	QPSK	A	Close	20	25.0	24.01	0.14	Bottom	0	1	99	1:1		5	0.202	1.256	0.254	-
680.5	133297	QPSK	A	Close	20	24.0	22.90	0.19	Bottom	0	50	0	1:1		5	0.176	1.288	0.227	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram									

NR FDD Band n7 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.67	-0.10	Rear	0	1	1	1:1		10	0.224	1.211	0.271	-
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.68	-0.10	Rear	0	108	54	1:1		10	0.229	1.208	0.277	-
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.67	0.14	Front	0	1	1	1:1		10	0.163	1.211	0.197	-
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.68	0.15	Front	0	108	54	1:1		10	0.170	1.208	0.205	-
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.67	0.17	Left	0	1	1	1:1		10	0.058	1.211	0.070	-
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.68	-0.14	Left	0	108	54	1:1		10	0.057	1.208	0.069	-
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.67	0.03	Bottom	0	1	1	1:1		10	0.479	1.211	0.580	-
2 535	507000	DFT-s OFDM QPSK	B	Open	40	17.5	16.68	0.00	Bottom	0	108	54	1:1		10	0.497	1.208	0.600	-
2 535	507000	CP QPSK	B	Open	40	17.5	16.80	-0.10	Bottom	0	1	1	1:1		10	0.491	1.175	0.577	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.67	0.00	Rear	0	1	1	1:1		5	0.358	1.211	0.434	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.68	0.00	Rear	0	108	54	1:1		5	0.412	1.208	0.498	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.67	0.10	Front	0	1	1	1:1		5	0.063	1.211	0.076	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.68	0.11	Front	0	108	54	1:1		5	0.072	1.208	0.087	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.67	0.13	Left	0	1	1	1:1		5	0.361	1.211	0.437	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.68	0.13	Left	0	108	54	1:1		5	0.311	1.208	0.376	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.67	0.19	Bottom	0	1	1	1:1		5	0.730	1.211	0.884	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.68	0.17	Bottom	0	108	54	1:1		5	0.750	1.208	0.906	-
2 535	507000	DFT-s OFDM QPSK	B	Close	40	17.5	16.57	0.17	Bottom	0	216	0	1:1		5	0.740	1.239	0.917	-
2 535	507000	CP QPSK	B	Close	40	17.5	16.80	0.03	Bottom	0	1	1	1:1		5	0.734	1.175	0.862	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.81	0.17	Rear	0	1	1	1:1		10	0.270	1.172	0.316	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.91	0.17	Rear	0	108	54	1:1		10	0.265	1.146	0.304	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.81	-0.07	Front	0	1	1	1:1		10	0.245	1.172	0.287	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.91	-0.12	Front	0	108	54	1:1		10	0.230	1.146	0.264	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.81	-0.13	Right	0	1	1	1:1		10	0.358	1.172	0.420	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.91	-0.10	Right	0	108	54	1:1		10	0.375	1.146	0.430	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.81	0.08	Bottom	0	1	1	1:1		10	0.083	1.172	0.097	-
2 535	507000	DFT-s OFDM QPSK	I	Open	40	19.5	18.91	0.15	Bottom	0	108	54	1:1		10	0.098	1.146	0.112	-
2 535	507000	CP QPSK	I	Open	40	19.5	18.89	-0.16	Right	0	1	1	1:1		10	0.346	1.151	0.398	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.81	0.16	Rear	0	1	1	1:1		5	0.216	1.172	0.253	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.91	0.15	Rear	0	108	54	1:1		5	0.239	1.146	0.274	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.81	-0.17	Front	0	1	1	1:1		5	0.684	1.172	0.802	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.91	-0.11	Front	0	108	54	1:1		5	0.702	1.146	0.804	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.95	-0.14	Front	0	216	0	1:1		5	0.709	1.135	0.805	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.81	-0.07	Right	0	1	1	1:1		5	0.815	1.172	**0.955**	C17
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.91	-0.11	Right	0	108	54	1:1		5	0.827	1.146	0.948	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.95	-0.16	Right	0	216	0	1:1		5	0.754	1.135	0.856	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.81	-0.03	Top	0	1	1	1:1		5	0.046	1.172	0.054	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.91	0.11	Top	0	108	54	1:1		5	0.051	1.146	0.058	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.81	-0.16	Bottom	0	1	1	1:1		5	0.110	1.172	0.129	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.91	-0.15	Bottom	0	108	54	1:1		5	0.130	1.146	0.149	-
2 535	507000	CP QPSK	I	Close	40	19.5	18.89	0.14	Right	0	1	1	1:1		5	0.783	1.151	0.901	-
2 535	507000	DFT-s OFDM QPSK	I	Close	40	19.5	18.91	-0.05	Right	0	108	54	1:1		5	0.793	1.146	0.909	#

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

Note: # Data entry indicate Variability measurement.

NR FDD Band n12 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.36	-0.08	Rear	0	1	1	1:1		10	0.280	1.159	0.325	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.28	0.04	Rear	0	36	22	1:1		10	0.282	1.180	0.333	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.36	0.01	Front	0	1	1	1:1		10	0.191	1.159	0.221	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.28	-0.01	Front	0	36	22	1:1		10	0.190	1.180	0.224	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.36	0.04	Left	0	1	1	1:1		10	0.166	1.159	0.192	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.28	0.11	Left	0	36	22	1:1		10	0.181	1.180	0.214	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.36	0.11	Right	0	1	1	1:1		10	0.236	1.159	0.274	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.28	0.18	Right	0	36	22	1:1		10	0.243	1.180	0.287	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.36	0.11	Bottom	0	1	1	1:1		10	0.068	1.159	0.079	-
707.5	141500	DFT-s OFDM QPSK	A	Open	15	23.0	22.28	0.14	Bottom	0	36	22	1:1		10	0.068	1.180	0.080	-
707.5	141500	CP QPSK	A	Open	15	22.5	22.38	-0.00	Rear	0.5	1	1	1:1		10	0.162	1.028	0.167	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.36	-0.19	Rear	0	1	1	1:1		5	0.564	1.159	0.654	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.28	-0.18	Rear	0	36	22	1:1		5	0.559	1.180	**0.660**	C18
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.36	0.13	Front	0	1	1	1:1		5	0.138	1.159	0.160	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.28	0.18	Front	0	36	22	1:1		5	0.156	1.180	0.184	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.36	0.19	Left	0	1	1	1:1		5	0.147	1.159	0.170	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.28	0.15	Left	0	36	22	1:1		5	0.145	1.180	0.171	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.36	-0.11	Right	0	1	1	1:1		5	0.063	1.159	0.073	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.28	-0.11	Right	0	36	22	1:1		5	0.056	1.180	0.066	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.36	0.10	Bottom	0	1	1	1:1		5	0.230	1.159	0.267	-
707.5	141500	DFT-s OFDM QPSK	A	Close	15	23.0	22.28	0.16	Bottom	0	36	22	1:1		5	0.201	1.180	0.237	-
707.5	141500	CP QPSK	A	Close	15	22.5	22.38	-0.11	Rear	0.5	1	1	1:1		5	0.433	1.028	0.445	-

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

NR FDD Band n25 Body Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.15	-0.14	Rear	0	1	214	1:1		10	0.323	1.035	0.334	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.16	-0.13	Rear	0	108	54	1:1		10	0.311	1.033	0.321	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.15	0.19	Front	0	1	214	1:1		10	0.200	1.035	0.207	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.16	-0.05	Front	0	108	54	1:1		10	0.201	1.033	0.208	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.15	0.11	Left	0	1	214	1:1		10	0.044	1.035	0.046	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.16	-0.16	Left	0	108	54	1:1		10	0.046	1.033	0.048	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.15	-0.15	Right	0	1	214	1:1		10	0.015	1.035	0.016	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.16	0.17	Right	0	108	54	1:1		10	0.017	1.033	0.018	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.15	0.18	Bottom	0	1	214	1:1		10	0.474	1.035	0.491	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	16.3	16.16	0.10	Bottom	0	108	54	1:1		10	0.453	1.033	0.468	-
1 882.5	376500	CP QPSK	A	Open	40	16.3	16.21	0.15	Bottom	0	1	1	1:1		10	0.428	1.021	0.437	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.15	-0.15	Rear	0	1	214	1:1		5	0.458	1.035	0.474	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.16	-0.16	Rear	0	108	54	1:1		5	0.480	1.033	0.496	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.15	0.00	Front	0	1	214	1:1		5	0.128	1.035	0.132	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.16	0.00	Front	0	108	54	1:1		5	0.065	1.033	0.067	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.15	0.13	Left	0	1	214	1:1		5	0.038	1.035	0.039	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.16	0.14	Left	0	108	54	1:1		5	0.038	1.033	0.039	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.15	0.11	Right	0	1	214	1:1		5	0.014	1.035	0.014	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.16	-0.08	Right	0	108	54	1:1		5	0.017	1.033	0.018	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.15	0.17	Bottom	0	1	214	1:1		5	0.676	1.035	0.700	-
1 882.5	376500	DFT-s OFDM QPSK	A	Close	40	16.3	16.16	0.13	Bottom	0	108	54	1:1		5	0.717	1.033	0.741	-
1 882.5	376500	CP QPSK	A	Close	40	16.3	16.21	0.01	Bottom	0	1	1	1:1		5	0.619	1.021	0.632	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.37	0.17	Rear	0	1	1	1:1		10	0.159	1.156	0.184	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.31	0.13	Rear	0	108	0	1:1		10	0.161	1.172	0.189	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.37	0.18	Front	0	1	1	1:1		10	0.122	1.156	0.141	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.31	0.14	Front	0	108	0	1:1		10	0.122	1.172	0.143	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.37	0.14	Right	0	1	1	1:1		10	0.333	1.156	0.385	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.31	0.19	Right	0	108	0	1:1		10	0.339	1.172	0.397	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.37	-0.15	Top	0	1	1	1:1		10	0.034	1.156	0.039	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	17.0	16.31	0.07	Top	0	108	0	1:1		10	0.031	1.172	0.036	-
1 882.5	376500	CP QPSK	I	Open	40	17.0	16.55	0.19	Right	0	1	1	1:1		10	0.338	1.109	0.375	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.37	-0.14	Rear	0	1	1	1:1		5	0.033	1.156	0.038	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.31	0.18	Rear	0	108	0	1:1		5	0.034	1.172	0.040	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.37	0.17	Front	0	1	1	1:1		5	0.463	1.156	0.535	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.31	-0.19	Front	0	108	0	1:1		5	0.452	1.172	0.530	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.37	0.02	Right	0	1	1	1:1		5	0.897	1.156	**1.037**	C19
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.31	0.18	Right	0	108	0	1:1		5	0.873	1.172	1.023	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.18	0.18	Right	0	216	0	1:1		5	0.820	1.208	0.991	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.37	0.14	Top	0	1	1	1:1		5	0.0083	1.156	0.010	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.31	0.19	Top	0	108	0	1:1		5	0.00888	1.172	0.010	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.37	0.13	Bottom	0	1	1	1:1		5	0.039	1.156	0.045	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.31	0.11	Bottom	0	108	0	1:1		5	0.035	1.172	0.041	-
1 882.5	376500	CP QPSK	I	Close	40	17.0	16.55	0.16	Right	0	1	1	1:1		5	0.829	1.109	0.919	-
1 882.5	376500	DFT-s OFDM QPSK	I	Close	40	17.0	16.37	0.13	Right	0	1	1	1:1		5	0.807	1.156	0.933	#

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

Note: # Data entry indicate Variability measurement.

NR FDD Band n26 (Cell) Hotspot SAR																			
Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.81	-0.01	Rear	0	1	53	1:1		10	0.320	1.172	0.375	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.80	-0.17	Rear	0	50	28	1:1		10	0.196	1.175	0.230	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.81	0.17	Front	0	1	53	1:1		10	0.089	1.172	0.104	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.80	0.17	Front	0	50	28	1:1		10	0.213	1.175	0.250	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.81	0.18	Left	0	1	53	1:1		10	0.167	1.172	0.196	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.80	0.17	Left	0	50	28	1:1		10	0.167	1.175	0.196	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.81	0.03	Right	0	1	53	1:1		10	0.256	1.172	0.300	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.80	0.11	Right	0	50	28	1:1		10	0.258	1.175	0.303	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.81	0.18	Bottom	0	1	53	1:1		10	0.089	1.172	0.104	-
831.5	166300	DFT-s OFDM QPSK	A	Open	20	23.5	22.80	0.15	Bottom	0	50	28	1:1		10	0.092	1.175	0.108	-
831.5	166300	CP QPSK	A	Open	20	23.0	21.98	0.09	Rear	0.5	1	1	1:1		10	0.302	1.265	0.382	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.81	0.03	Rear	0	1	53	1:1		5	0.522	1.172	0.612	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.80	-0.18	Rear	0	50	28	1:1		5	0.536	1.175	0.630	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.81	0.14	Front	0	1	53	1:1		5	0.067	1.172	0.079	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.80	0.16	Front	0	50	28	1:1		5	0.069	1.175	0.081	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.81	-0.03	Left	0	1	53	1:1		5	0.164	1.172	0.192	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.80	0.05	Left	0	50	28	1:1		5	0.166	1.175	0.195	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.81	-0.18	Right	0	1	53	1:1		5	0.095	1.172	0.111	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.80	0.09	Right	0	50	28	1:1		5	0.095	1.175	0.112	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.81	0.05	Bottom	0	1	53	1:1		5	0.237	1.172	0.278	-
831.5	166300	DFT-s OFDM QPSK	A	Close	20	23.5	22.80	0.14	Bottom	0	50	28	1:1		5	0.248	1.175	0.291	-
831.5	166300	CP QPSK	A	Close	20	23.0	21.98	-0.02	Rear	0.5	1	1	1:1		5	0.543	1.265	**0.687**	C20
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram										

NR FDD Band n30 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.17	0.10	Rear	0	1	50	1:1		10	0.176	1.211	0.213	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.14	0.15	Rear	0	25	0	1:1		10	0.180	1.219	0.219	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.17	-0.15	Front	0	1	50	1:1		10	0.139	1.211	0.168	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.14	0.12	Front	0	25	0	1:1		10	0.140	1.219	0.171	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.17	-0.13	Left	0	1	50	1:1		10	0.032	1.211	0.039	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.14	0.17	Left	0	25	0	1:1		10	0.033	1.219	0.040	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.17	-0.19	Bottom	0	1	50	1:1		10	0.337	1.211	0.408	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	15.0	14.14	-0.04	Bottom	0	25	0	1:1		10	0.368	1.219	0.449	-
2 310	462000	CP QPSK	B	Open	10	15.0	14.30	-0.18	Bottom	0	1	1	1:1		10	0.305	1.175	0.358	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.17	0.00	Rear	0	1	50	1:1		5	0.262	1.211	0.317	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.14	0.00	Rear	0	25	0	1:1		5	0.259	1.219	0.316	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.17	0.00	Front	0	1	50	1:1		5	0.023	1.211	0.028	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.14	0.00	Front	0	25	0	1:1		5	0.021	1.219	0.026	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.17	0.11	Left	0	1	50	1:1		5	0.172	1.211	0.208	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.14	0.19	Left	0	25	0	1:1		5	0.181	1.219	0.221	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.17	0.12	Bottom	0	1	50	1:1		5	0.657	1.211	0.796	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.14	0.12	Bottom	0	25	0	1:1		5	0.663	1.219	0.808	-
2 310	462000	DFT-s OFDM QPSK	B	Close	10	15.0	14.13	0.14	Bottom	0	50	0	1:1		5	0.588	1.222	0.719	-
2 310	462000	CP QPSK	B	Close	10	15.0	14.30	0.13	Bottom	0	1	1	1:1		5	0.635	1.175	0.746	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.84	0.10	Rear	0	1	1	1:1		10	0.282	1.164	0.328	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.80	0.19	Rear	0	25	0	1:1		10	0.279	1.175	0.328	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.84	0.16	Front	0	1	1	1:1		10	0.235	1.164	0.274	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.80	0.13	Front	0	25	0	1:1		10	0.227	1.175	0.267	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.84	0.15	Right	0	1	1	1:1		10	0.376	1.164	0.438	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.80	-0.08	Right	0	25	0	1:1		10	0.380	1.175	0.447	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.84	0.10	Top	0	1	1	1:1		10	0.045	1.164	0.052	-
2 310	462000	DFT-s OFDM QPSK	I	Open	10	18.5	17.80	-0.03	Top	0	25	0	1:1		10	0.046	1.175	0.054	-
2 310	462000	CP QPSK	I	Open	10	18.5	17.89	0.15	Right	0	1	1	1:1		10	0.349	1.151	0.402	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.84	-0.12	Rear	0	1	1	1:1		5	0.122	1.164	0.142	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.80	0.12	Rear	0	25	0	1:1		5	0.109	1.175	0.128	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.84	-0.16	Front	0	1	1	1:1		5	0.814	1.164	0.947	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.80	-0.17	Front	0	25	0	1:1		5	0.824	1.175	0.968	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.72	-0.16	Front	0	50	0	1:1		5	0.819	1.197	0.980	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.84	0.17	Right	0	1	1	1:1		5	0.730	1.164	0.850	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.80	0.17	Right	0	25	0	1:1		5	0.741	1.175	0.871	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.72	0.13	Right	0	50	0	1:1		5	0.824	1.197	**0.986**	C21
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.84	-0.10	Top	0	1	1	1:1		5	0.040	1.164	0.047	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.80	0.01	Top	0	25	0	1:1		5	0.039	1.175	0.046	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.84	-0.17	Bottom	0	1	1	1:1		5	0.078	1.164	0.091	-
2 310	462000	DFT-s OFDM QPSK	I	Close	10	18.5	17.80	-0.13	Bottom	0	25	0	1:1		5	0.078	1.175	0.092	-
2 310	462000	CP QPSK	I	Close	10	18.5	18.12	0.17	Right	0	1	1	1:1		5	0.846	1.091	0.923	-
2 310	462000	CP QPSK	I	Close	10	18.5	17.89	0.11	Right	0	1	1	1:1		5	0.796	1.151	0.916	#

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

Note: # Data entry indicate Variability measurement.

NR TDD Band n38 Hotspot SAR																			
Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.33	0.00	Rear	0	1	104	1:1		10	0.078	1.167	0.091	-
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.36	0.00	Rear	0	50	0	1:1		10	0.123	1.159	0.143	-
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.33	-0.19	Front	0	1	104	1:1		10	0.096	1.167	0.112	-
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.36	0.00	Front	0	50	0	1:1		10	0.100	1.159	0.116	-
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.33	0.17	Left	0	1	104	1:1		10	0.041	1.167	0.048	-
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.36	0.15	Left	0	50	0	1:1		10	0.04	1.159	0.046	-
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.33	0.09	Bottom	0	1	104	1:1		10	0.345	1.167	0.403	-
2 595	519000	DFT-s OFDM QPSK	B	Open	40	16.0	15.36	-0.04	Bottom	0	50	0	1:1		10	0.386	1.159	0.447	-
2 595	519000	CP QPSK	B	Open	40	16.0	15.36	0.00	Bottom	0	1	1	1:1		10	0.370	1.159	0.429	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.33	-0.05	Rear	0	1	104	1:1		5	0.23	1.167	0.268	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.36	0.00	Rear	0	50	0	1:1		5	0.385	1.159	0.446	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.33	0.05	Front	0	1	104	1:1		5	0.036	1.167	0.042	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.36	-0.14	Front	0	50	0	1:1		5	0.027	1.159	0.031	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.33	-0.13	Left	0	1	104	1:1		5	0.102	1.167	0.119	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.36	-0.18	Left	0	50	0	1:1		5	0.100	1.159	0.116	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.33	-0.10	Bottom	0	1	104	1:1		5	0.545	1.167	0.636	-
2 595	519000	DFT-s OFDM QPSK	B	Close	40	16.0	15.36	-0.10	Bottom	0	50	0	1:1		5	0.615	1.159	0.713	-
2 595	519000	CP QPSK	B	Close	40	16.0	15.36	0.06	Bottom	0	1	1	1:1		5	0.642	1.159	**0.744**	C22
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram										

NR TDD Band n41 Hotspot SAR

Frequency		Mode	Ant	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.66	-0.14	Rear	0	1	271	1:1		10	0.219	1.081	0.237	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.70	0.15	Rear	0	135	69	1:1		10	0.222	1.072	0.238	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.66	0.11	Front	0	1	271	1:1		10	0.209	1.081	0.226	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.70	-0.18	Front	0	135	69	1:1		10	0.234	1.072	0.251	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.66	-0.18	Right	0	1	271	1:1		10	0.304	1.081	0.329	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.70	0.07	Right	0	135	69	1:1		10	0.337	1.072	0.361	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.66	-0.10	Top	0	1	271	1:1		10	0.018	1.081	0.019	-
2 592.99	518598	DFT-s OFDM QPSK	I	Open	100	18.0	17.70	0.02	Top	0	135	69	1:1		10	0.017	1.072	0.018	-
2 592.99	518598	CP QPSK	I	Open	100	18.0	17.50	0.10	Right	0	1	1	1:1		10	0.403	1.122	0.452	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.66	0.03	Rear	0	1	271	1:1		5	0.141	1.081	0.152	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.70	-0.04	Rear	0	135	69	1:1		5	0.059	1.072	0.063	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.66	-0.07	Front	0	1	271	1:1		5	0.604	1.081	0.653	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.70	0.00	Front	0	135	69	1:1		5	0.438	1.072	0.470	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.56	0.16	Front	0	270	0	1:1		5	0.326	1.107	0.361	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.66	-0.04	Right	0	1	271	1:1		5	0.702	1.081	0.759	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.70	0.12	Right	0	135	69	1:1		5	0.812	1.072	0.870	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.56	0.02	Right	0	270	0	1:1		5	0.859	1.107	0.951	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.66	0.01	Top	0	1	271	1:1		5	0.041	1.081	0.044	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.70	0.07	Top	0	135	69	1:1		5	0.039	1.072	0.042	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.66	0.04	Bottom	0	1	271	1:1		5	0.101	1.081	0.109	-
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.70	-0.07	Bottom	0	135	69	1:1		5	0.112	1.072	0.120	-
2 592.99	518598	CP QPSK	I	Close	100	18.0	17.50	0.10	Right	0	1	1	1:1		5	0.859	1.122	**0.964**	C23
2 592.99	518598	DFT-s OFDM QPSK	I	Close	100	18.0	17.56	0.08	Right	0	270	0	1:1		5	0.859	1.107	0.951	#
2 592.99	518598	CW SRS #2	B	Open	100	14.5	13.02	0.00	Rear	0	-	-	1:1		10	0.094	1.406	0.132	-
2 592.99	518598	CW SRS #2	B	Open	100	14.5	13.02	0.00	Front	0	-	-	1:1		10	0.123	1.406	0.173	-
2 592.99	518598	CW SRS #2	B	Open	100	14.5	13.02	-0.12	Left	0	-	-	1:1		10	0.051	1.406	0.072	-
2 592.99	518598	CW SRS #2	B	Open	100	14.5	13.02	0.14	Bottom	0	-	-	1:1		10	0.330	1.406	0.464	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	13.02	0.00	Rear	0	-	-	1:1		5	0.223	1.406	0.314	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	13.02	0.00	Front	0	-	-	1:1		5	0.031	1.406	0.044	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	13.02	-0.17	Left	0	-	-	1:1		5	0.123	1.406	0.173	-
2 592.99	518598	CW SRS #2	B	Close	100	14.5	13.02	-0.10	Bottom	0	-	-	1:1		5	0.504	1.406	0.709	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	15.21	-0.05	Rear	0	-	-	1:1		10	0.144	1.346	0.194	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	15.21	-0.04	Front	0	-	-	1:1		10	0.152	1.346	0.205	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	15.21	0.07	Left	0	-	-	1:1		10	0.143	1.346	0.192	-
2 592.99	518598	CW SRS #3	F	Open	100	16.5	15.21	-0.10	Top	0	-	-	1:1		10	0.050	1.346	0.067	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	15.21	-0.10	Rear	0	-	-	1:1		5	0.048	1.346	0.065	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	15.21	-0.03	Front	0	-	-	1:1		5	0.319	1.346	0.429	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	15.21	0.00	Left	0	-	-	1:1		5	0.286	1.346	0.385	-
2 592.99	518598	CW SRS #3	F	Close	100	16.5	15.21	-0.17	Bottom	0	-	-	1:1		5	0.093	1.346	0.125	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	10.46	-0.07	Rear	0	-	-	1:1		10	0.048	1.132	0.054	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	10.46	0.00	Front	0	-	-	1:1		10	0.059	1.132	0.067	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	10.46	0.09	Left	0	-	-	1:1		10	0.064	1.132	0.072	-
2 592.99	518598	CW SRS #4	C	Open	100	11.0	10.46	0.17	Bottom	0	-	-	1:1		10	0.013	1.132	0.015	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	10.46	-0.11	Rear	0	-	-	1:1		5	0.098	1.132	0.111	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	10.46	0.00	Front	0	-	-	1:1		5	0.011	1.132	0.012	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	10.46	0.00	Left	0	-	-	1:1		5	0.214	1.132	0.242	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	10.46	0.00	Top	0	-	-	1:1		5	0.000	1.132	0.000	-
2 592.99	518598	CW SRS #4	C	Close	100	11.0	10.46	-0.17	Bottom	0	-	-	1:1		5	0.014	1.132	0.016	-

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

Note: # Data entry indicate Variability measurement.

NR TDD Band n48 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.15	-0.19	Rear	0	1	53	1:1		10	0.148	1.216	0.180	-
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.05	-0.18	Rear	0	50	28	1:1		10	0.155	1.245	0.193	-
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.15	0.00	Front	0	1	53	1:1		10	0.124	1.216	0.151	-
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.05	0.00	Front	0	50	28	1:1		10	0.156	1.245	0.194	-
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.15	0.05	Left	0	1	53	1:1		10	0.169	1.216	0.206	-
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.05	0.00	Left	0	50	28	1:1		10	0.178	1.245	0.222	-
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.15	0.12	Top	0	1	53	1:1		10	0.083	1.216	0.101	-
3 624.99	641666	DFT-s OFDM QPSK	F	Open	40	17.0	16.05	-0.16	Top	0	50	28	1:1		10	0.100	1.245	0.125	-
3 624.99	641666	CP QPSK	F	Open	40	17.0	15.97	-0.10	Left	0	1	1	1:1		10	0.157	1.268	0.199	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.15	0.00	Rear	0	1	53	1:1		5	0.042	1.216	0.051	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.05	0.00	Rear	0	50	28	1:1		5	0.046	1.245	0.057	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.15	0.09	Front	0	1	53	1:1		5	0.524	1.216	**0.637**	C24
3 570.00	638000	DFT-s OFDM QPSK	F	Close	40	17.0	15.92	-0.03	Front	0	1	53	1:1		5	0.319	1.282	0.409	-
3 679.98	645332	DFT-s OFDM QPSK	F	Close	40	17.0	15.78	-0.18	Front	0	1	1	1:1		5	0.326	1.324	0.432	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.05	0.11	Front	0	50	28	1:1		5	0.467	1.245	0.581	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.03	-0.17	Front	0	100	0	1:1		5	0.341	1.250	0.426	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.15	-0.19	Left	0	1	53	1:1		5	0.491	1.216	0.597	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.05	-0.11	Left	0	50	28	1:1		5	0.467	1.245	0.581	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.15	-0.18	Bottom	0	1	53	1:1		5	0.19	1.216	0.231	-
3 624.99	641666	DFT-s OFDM QPSK	F	Close	40	17.0	16.05	-0.14	Bottom	0	50	28	1:1		5	0.195	1.245	0.243	-
3 624.99	641666	CP QPSK	F	Close	40	17.0	15.97	-0.12	Front	0	1	1	1:1		5	0.219	1.268	0.278	-
3 570.00	638000	CW SRS #2	I	Open	40	17.0	16.65	0.00	Rear	0	-	-	1:1		10	0.051	1.084	0.055	-
3 570.00	638000	CW SRS #2	I	Open	40	17.0	16.65	0.00	Front	0	-	-	1:1		10	0.034	1.084	0.037	-
3 570.00	638000	CW SRS #2	I	Open	40	17.0	16.65	-0.15	Right	0	-	-	1:1		10	0.152	1.084	0.165	-
3 570.00	638000	CW SRS #2	I	Open	40	17.0	16.65	0.00	Top	0	-	-	1:1		10	0.00264	1.084	0.003	-
3 570.00	638000	CW SRS #2	I	Close	40	17.0	16.65	0.00	Rear	0	-	-	1:1		5	0.00721	1.084	0.008	-
3 570.00	638000	CW SRS #2	I	Close	40	17.0	16.65	-0.04	Front	0	-	-	1:1		5	0.147	1.084	0.159	-
3 570.00	638000	CW SRS #2	I	Close	40	17.0	16.65	0.00	Right	0	-	-	1:1		5	0.397	1.084	0.430	-
3 570.00	638000	CW SRS #2	I	Close	40	17.0	16.65	0.00	Top	0	-	-	1:1		5	0.00956	1.084	0.010	-
3 570.00	638000	CW SRS #2	I	Close	40	17.0	16.65	0.00	Bottom	0	-	-	1:1		5	0.014	1.084	0.015	-
3 570.00	638000	CW SRS #3	E	Open	40	17.0	16.58	0.00	Rear	0	-	-	1:1		10	0.04	1.102	0.044	-
3 570.00	638000	CW SRS #3	E	Open	40	17.0	16.58	0.00	Front	0	-	-	1:1		10	0.056	1.102	0.062	-
3 570.00	638000	CW SRS #3	E	Open	40	17.0	16.58	0.11	Left	0	-	-	1:1		10	0.067	1.102	0.074	-
3 570.00	638000	CW SRS #3	E	Open	40	17.0	16.58	0.00	Top	0	-	-	1:1		10	0	1.102	0.000	-
3 570.00	638000	CW SRS #3	E	Close	40	17.0	16.58	0.00	Rear	0	-	-	1:1		5	0.062	1.102	0.068	-
3 570.00	638000	CW SRS #3	E	Close	40	17.0	16.58	-0.05	Front	0	-	-	1:1		5	0.231	1.102	0.255	-
3 570.00	638000	CW SRS #3	E	Close	40	17.0	16.58	-0.05	Left	0	-	-	1:1		5	0.229	1.102	0.252	-
3 570.00	638000	CW SRS #3	E	Close	40	17.0	16.58	0.00	Top	0	-	-	1:1		5	0.00294	1.102	0.003	-
3 570.00	638000	CW SRS #3	E	Close	40	17.0	16.58	0.00	Bottom	0	-	-	1:1		5	0.00459	1.102	0.005	-
3 570.00	638000	CW SRS #4	C	Open	40	10.5	10.31	0.00	Rear	0	-	-	1:1		10	0.04	1.045	0.042	-
3 570.00	638000	CW SRS #4	C	Open	40	10.5	10.31	0.00	Front	0	-	-	1:1		10	0.022	1.045	0.023	-
3 570.00	638000	CW SRS #4	C	Open	40	10.5	10.31	0.18	Left	0	-	-	1:1		10	0.08	1.045	0.084	-
3 570.00	638000	CW SRS #4	C	Open	40	10.5	10.31	0.00	Bottom	0	-	-	1:1		10	0	1.045	0.000	-
3 570.00	638000	CW SRS #4	C	Close	40	10.5	10.31	0.00	Rear	0	-	-	1:1		5	0.085	1.045	0.089	-
3 570.00	638000	CW SRS #4	C	Close	40	10.5	10.31	0.00	Front	0	-	-	1:1		5	0	1.045	0.000	-
3 570.00	638000	CW SRS #4	C	Close	40	10.5	10.31	0.05	Left	0	-	-	1:1		5	0.142	1.045	0.148	-
3 570.00	638000	CW SRS #4	C	Close	40	10.5	10.31	0.09	Top	0	-	-	1:1		5	0.00261	1.045	0.003	-
3 570.00	638000	CW SRS #4	C	Close	40	10.5	10.31	0.00	Bottom	0	-	-	1:1		5	0.00487	1.045	0.005	-

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

NR FDD Band n66 Body Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.60	0.17	Rear	0	1	108	1:1		10	0.431	1.175	0.506	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.55	-0.13	Rear	0	108	54	1:1		10	0.458	1.189	0.545	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.60	-0.18	Front	0	1	108	1:1		10	0.262	1.175	0.308	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.55	0.12	Front	0	108	54	1:1		10	0.268	1.189	0.319	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.60	0.16	Left	0	1	108	1:1		10	0.060	1.175	0.071	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.55	0.14	Left	0	108	54	1:1		10	0.059	1.189	0.070	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.60	0.12	Right	0	1	108	1:1		10	0.036	1.175	0.042	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.55	0.10	Right	0	108	54	1:1		10	0.036	1.189	0.043	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.60	0.16	Bottom	0	1	108	1:1		10	0.795	1.175	0.934	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.55	0.10	Bottom	0	108	54	1:1		10	0.809	1.189	**0.962**	C25
1745	349000	DFT-s OFDM QPSK	A	Open	40	18.3	17.42	0.14	Bottom	0	216	0	1:1		10	0.754	1.225	0.924	-
1745	349000	CP OFDM QPSK	A	Open	40	18.3	17.62	0.19	Bottom	0	1	1	1:1		10	0.721	1.169	0.843	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.60	-0.12	Rear	0	1	108	1:1		5	0.544	1.175	0.639	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.55	-0.16	Rear	0	108	54	1:1		5	0.541	1.189	0.643	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.60	-0.16	Front	0	1	108	1:1		5	0.092	1.175	0.108	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.55	-0.11	Front	0	108	54	1:1		5	0.095	1.189	0.113	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.60	0.13	Left	0	1	108	1:1		5	0.115	1.175	0.135	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.55	0.13	Left	0	108	54	1:1		5	0.123	1.189	0.146	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.60	-0.12	Right	0	1	108	1:1		5	0.016	1.175	0.019	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.55	-0.16	Right	0	108	54	1:1		5	0.019	1.189	0.023	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.60	0.12	Bottom	0	1	108	1:1		5	0.770	1.175	0.905	-
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.55	0.13	Bottom	0	108	54	1:1		5	0.770	1.189	0.916	
1745	349000	DFT-s OFDM QPSK	A	Close	40	18.3	17.42	0.13	Bottom	0	216	0	1:1		5	0.757	1.225	0.927	-
1745	349000	CP OFDM QPSK	A	Close	40	18.3	17.62	0.11	Bottom	0	1	1	1:1		5	0.674	1.169	0.788	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	17.06	-0.10	Rear	0	1	214	1:1		10	0.148	1.242	0.184	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.97	0.00	Rear	0	108	54	1:1		10	0.179	1.268	0.227	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	17.06	0.00	Front	0	1	214	1:1		10	0.117	1.242	0.145	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.97	0.00	Front	0	108	54	1:1		10	0.124	1.268	0.157	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	17.06	-0.10	Right	0	1	214	1:1		10	0.303	1.242	0.376	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.97	-0.14	Right	0	108	54	1:1		10	0.339	1.268	0.430	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	17.06	0.11	Top	0	1	214	1:1		10	0.020	1.242	0.025	-
1745	349000	DFT-s OFDM QPSK	I	Open	40	18.0	16.97	-0.10	Top	0	108	54	1:1		10	0.019	1.268	0.024	-
1745	349000	CP OFDM QPSK	I	Open	40	18.0	17.05	-0.15	Right	0	1	1	1:1		10	0.285	1.245	0.355	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	17.06	0.00	Rear	0	1	214	1:1		5	0.00458	1.242	0.006	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.97	-0.16	Rear	0	108	54	1:1		5	0.013	1.268	0.016	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	17.06	0.14	Front	0	1	214	1:1		5	0.086	1.242	0.107	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.97	0.04	Front	0	108	54	1:1		5	0.066	1.268	0.084	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	17.06	0.11	Right	0	1	214	1:1		5	0.378	1.242	0.469	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.97	0.12	Right	0	108	54	1:1		5	0.343	1.268	0.435	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	17.06	-0.09	Top	0	1	214	1:1		5	0.019	1.242	0.024	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.97	0.00	Top	0	108	54	1:1		5	0.000	1.268	0.000	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	17.06	-0.19	Bottom	0	1	214	1:1		5	0.030	1.242	0.037	-
1745	349000	DFT-s OFDM QPSK	I	Close	40	18.0	16.97	0.17	Bottom	0	108	54	1:1		5	0.027	1.268	0.034	-
1745	349000	CP OFDM QPSK	I	Close	40	18.0	17.05	0.10	Right	0	1	1	1:1		5	0.486	1.245	0.605	-

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

NR FDD Band n70 Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.22	0.06	Rear	0	1	40	1:1		10	0.152	1.343	0.204	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.27	0.16	Rear	0	36	22	1:1		10	0.155	1.327	0.206	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.22	-0.15	Front	0	1	40	1:1		10	0.111	1.343	0.149	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.27	0.15	Front	0	36	22	1:1		10	0.113	1.327	0.150	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.22	0.16	Left	0	1	40	1:1		10	0.021	1.343	0.028	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.27	0.06	Left	0	36	22	1:1		10	0.022	1.327	0.029	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.22	-0.18	Right	0	1	40	1:1		10	0.016	1.343	0.021	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.27	-0.03	Right	0	36	22	1:1		10	0.016	1.327	0.021	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.22	0.15	Bottom	0	1	40	1:1		10	0.196	1.343	0.263	-
1 702.5	340500	DFT-s OFDM QPSK	A	Open	15	18.5	17.27	0.14	Bottom	0	36	22	1:1		10	0.205	1.327	0.272	-
1 702.5	340500	CP OFDM QPSK	A	Open	15	18.5	17.32	0.12	Bottom	0	1	1	1:1		10	0.193	1.312	0.253	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.22	-0.14	Rear	0	1	40	1:1		5	0.208	1.343	0.279	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.27	0.11	Rear	0	36	22	1:1		5	0.214	1.327	0.284	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.22	0.15	Front	0	1	40	1:1		5	0.042	1.343	0.056	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.27	0.02	Front	0	36	22	1:1		5	0.043	1.327	0.057	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.22	0.12	Left	0	1	40	1:1		5	0.026	1.343	0.035	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.27	0.15	Left	0	36	22	1:1		5	0.027	1.327	0.036	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.22	0.19	Right	0	1	40	1:1		5	0.00559	1.343	0.008	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.27	0.13	Right	0	36	22	1:1		5	0.00584	1.327	0.008	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.22	0.13	Bottom	0	1	40	1:1		5	0.303	1.343	0.407	-
1 702.5	340500	DFT-s OFDM QPSK	A	Close	15	18.5	17.27	0.01	Bottom	0	36	22	1:1		5	0.517	1.327	**0.686**	C26
1 702.5	340500	CP OFDM QPSK	A	Close	15	18.5	17.32	0.14	Bottom	0	1	1	1:1		5	0.291	1.312	0.382	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.75	0.18	Rear	0	1	77	1:1		10	0.109	1.334	0.145	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.73	0.12	Rear	0	36	22	1:1		10	0.112	1.340	0.150	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.75	0.12	Front	0	1	77	1:1		10	0.081	1.334	0.108	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.73	0.00	Front	0	36	22	1:1		10	0.082	1.340	0.110	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.75	0.12	Right	0	1	77	1:1		10	0.173	1.334	0.231	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.73	0.17	Right	0	36	22	1:1		10	0.171	1.340	0.229	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.75	0.16	Top	0	1	77	1:1		10	0.013	1.334	0.017	-
1 702.5	340500	DFT-s OFDM QPSK	I	Open	15	18.0	16.73	0.11	Top	0	36	22	1:1		10	0.013	1.340	0.017	-
1 702.5	340500	CP OFDM QPSK	I	Open	15	18.0	16.87	0.13	Right	0	1	1	1:1		10	0.203	1.297	0.263	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.75	-0.16	Rear	0	1	77	1:1		5	0.014	1.334	0.019	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.73	0.00	Rear	0	36	22	1:1		5	0.014	1.340	0.019	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.75	0.16	Front	0	1	77	1:1		5	0.200	1.334	0.267	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.73	0.00	Front	0	36	22	1:1		5	0.189	1.340	0.253	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.75	0.02	Right	0	1	77	1:1		5	0.497	1.334	0.663	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.73	0.14	Right	0	36	22	1:1		5	0.350	1.340	0.469	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.75	0.18	Top	0	1	77	1:1		5	0.0012	1.334	0.002	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.73	-0.13	Top	0	36	22	1:1		5	0.00112	1.340	0.002	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.75	-0.02	Bottom	0	1	77	1:1		5	0.013	1.334	0.017	-
1 702.5	340500	DFT-s OFDM QPSK	I	Close	15	18.0	16.73	0.15	Bottom	0	36	22	1:1		5	0.013	1.340	0.017	-
1 702.5	340500	CP OFDM QPSK	I	Close	15	18.0	16.87	0.17	Right	0	1	1	1:1		5	0.346	1.297	0.449	-

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

NR FDD Band n71 Hotspot SAR																			
Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.44	-0.15	Rear	0	1	1	1:1		10	0.115	1.138	0.131	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.51	-0.02	Rear	0	50	28	1:1		10	0.125	1.119	0.140	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.44	-0.12	Front	0	1	1	1:1		10	0.062	1.138	0.071	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.51	0.15	Front	0	50	28	1:1		10	0.068	1.119	0.076	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.44	0.10	Left	0	1	1	1:1		10	0.282	1.138	0.321	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.51	0.13	Left	0	50	28	1:1		10	0.298	1.119	0.333	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.44	0.07	Right	0	1	1	1:1		10	0.245	1.138	0.279	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.51	0.12	Right	0	50	28	1:1		10	0.272	1.119	0.304	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.44	0.18	Bottom	0	1	1	1:1		10	0.053	1.138	0.060	-
680.5	136100	DFT-s OFDM QPSK	A	Open	20	25.0	24.51	0.14	Bottom	0	50	28	1:1		10	0.064	1.119	0.072	-
680.5	136100	CP QPSK	A	Open	20	23.5	22.95	0.15	Left	1.5	1	1	1:1		10	0.245	1.135	0.278	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.44	-0.13	Rear	0	1	1	1:1		5	0.515	1.138	0.586	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.51	-0.15	Rear	0	50	28	1:1		5	0.556	1.119	**0.622**	C27
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.44	0.14	Front	0	1	1	1:1		5	0.074	1.138	0.084	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.51	0.16	Front	0	50	28	1:1		5	0.094	1.119	0.105	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.44	-0.05	Left	0	1	1	1:1		5	0.133	1.138	0.151	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.51	0.12	Left	0	50	28	1:1		5	0.150	1.119	0.168	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.44	-0.17	Right	0	1	1	1:1		5	0.061	1.138	0.069	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.51	-0.12	Right	0	50	28	1:1		5	0.073	1.119	0.082	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.44	0.18	Bottom	0	1	1	1:1		5	0.198	1.138	0.225	-
680.5	136100	DFT-s OFDM QPSK	A	Close	20	25.0	24.51	0.14	Bottom	0	50	28	1:1		5	0.223	1.119	0.250	-
680.5	136100	CP QPSK	A	Close	20	23.5	22.95	-0.18	Rear	1.5	1	1	1:1		5	0.408	1.135	0.463	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram										

NR TDD Band n77 Hotspot SAR																			
Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.77	-0.12	Rear	0	1	271	1:1		10	0.288	1.183	0.341	-
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.93	0.06	Rear	0	135	0	1:1		10	0.219	1.140	0.250	-
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.77	-0.14	Front	0	1	271	1:1		10	0.114	1.183	0.135	-
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.93	-0.15	Front	0	135	0	1:1		10	0.108	1.140	0.123	-
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.77	-0.06	Left	0	1	271	1:1		10	0.262	1.183	0.310	-
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.93	-0.08	Left	0	135	0	1:1		10	0.264	1.140	0.301	-
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.77	-0.10	Top	0	1	271	1:1		10	0.198	1.183	0.234	-
3 930	662000	DFT-s QPSK	F	Open	100	17.5	16.93	-0.09	Top	0	135	0	1:1		10	0.169	1.140	0.193	-
3 930	662000	CP QPSK	F	Open	100	17.5	17.10	0.04	Rear	0	1	1	1:1		10	0.223	1.096	0.244	-
3 500.01	633334	DFT-s QPSK	F	Open	100	17.5	16.90	-0.15	Rear	0	1	271	1:1		10	0.261	1.148	0.300	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.77	-0.17	Rear	0	1	271	1:1		5	0.147	1.183	0.174	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.93	-0.15	Rear	0	135	0	1:1		5	0.073	1.140	0.083	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.77	0.17	Front	0	1	271	1:1		5	0.395	1.183	0.467	-
3 750	650000	DFT-s QPSK	F	Close	100	17.5	16.75	0.04	Front	0	1	271	1:1		5	0.248	1.189	0.295	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.93	0.14	Front	0	135	0	1:1		5	0.371	1.140	0.423	-
3 750	650000	DFT-s QPSK	F	Close	100	17.5	16.76	0.11	Front	0	135	138	1:1		5	0.349	1.186	0.414	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.76	0.18	Front	0	270	0	1:1		5	0.217	1.186	0.257	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.77	-0.16	Left	0	1	271	1:1		5	0.852	1.183	1.008	-
3 750	650000	DFT-s QPSK	F	Close	100	17.5	16.75	-0.13	Left	0	1	271	1:1		5	0.769	1.189	0.914	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.93	-0.13	Left	0	135	0	1:1		5	0.777	1.140	0.886	-
3 750	650000	DFT-s QPSK	F	Close	100	17.5	16.76	-0.17	Left	0	135	138	1:1		5	0.694	1.186	0.823	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.76	-0.01	Left	0	270	0	1:1		5	0.773	1.186	0.917	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.77	-0.04	Bottom	0	1	271	1:1		5	0.408	1.183	0.483	-
3 750	650000	DFT-s QPSK	F	Close	100	17.5	16.75	-0.11	Bottom	0	1	271	1:1		5	0.346	1.189	0.411	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.93	-0.12	Bottom	0	135	0	1:1		5	0.369	1.140	0.421	-
3 750	650000	DFT-s QPSK	F	Close	100	17.5	16.76	-0.18	Bottom	0	135	138	1:1		5	0.338	1.186	0.401	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.76	-0.05	Bottom	0	270	0	1:1		5	0.378	1.186	0.448	-
3 930	662000	CP QPSK	F	Close	100	17.5	17.10	-0.14	Left	0	1	1	1:1		5	0.711	1.096	0.779	-
3 500.01	633334	DFT-s QPSK	F	Close	100	17.5	16.90	-0.07	Left	0	1	271	1:1		5	0.726	1.148	0.833	-
3 500.01	633334	DFT-s QPSK	F	Close	100	17.5	16.62	-0.11	Left	0	135	138	1:1		5	0.623	1.225	0.763	-
3 500.01	633334	DFT-s QPSK	F	Close	100	17.5	16.83	-0.05	Left	0	270	0	1:1		5	0.629	1.167	0.734	-
3 930	662000	DFT-s QPSK	F	Close	100	17.5	16.77	0.11	Left	0	1	271	1:1		5	0.849	1.183	1.004	#
3 750.00	650000	CW SRS #2	I	Open	100	17.5	16.06	-0.10	Rear	0	-	-	1:1		10	0.064	1.393	0.089	-
3 750.00	650000	CW SRS #2	I	Open	100	17.5	16.06	0.13	Front	0	-	-	1:1		10	0.032	1.393	0.045	-
3 750.00	650000	CW SRS #2	I	Open	100	17.5	16.06	0.11	Right	0	-	-	1:1		10	0.124	1.393	0.173	-
3 750.00	650000	CW SRS #2	I	Open	100	17.5	16.06	0.04	Top	0	-	-	1:1		10	0.011	1.393	0.015	-
3 500.01	633334	CW SRS #2	I	Open	100	17.5	15.64	-0.04	Right	0	-	-	1:1		10	0.290	1.535	0.445	-
3 750.00	650000	CW SRS #2	I	Close	100	17.5	16.06	-0.09	Rear	0	-	-	1:1		5	0.008	1.393	0.011	-
3 750.00	650000	CW SRS #2	I	Close	100	17.5	16.06	0.00	Front	0	-	-	1:1		5	0.338	1.393	0.471	-
3 930.00	662000	CW SRS #2	I	Close	100	17.5	15.95	0.16	Front	0	-	-	1:1		5	0.245	1.429	0.350	-
3 750.00	650000	CW SRS #2	I	Close	100	17.5	16.06	0.17	Right	0	-	-	1:1		5	0.560	1.393	0.780	-
3 930.00	662000	CW SRS #2	I	Close	100	17.5	15.95	0.12	Right	0	-	-	1:1		5	0.431	1.429	0.616	-
3 750.00	650000	CW SRS #2	I	Close	100	17.5	16.06	-0.09	Top	0	-	-	1:1		5	0.025	1.393	0.035	
3 750.00	650000	CW SRS #2	I	Close	100	17.5	16.06	-0.16	Bottom	0	-	-	1:1		5	0.022	1.393	0.031	-
3 500.01	633334	CW SRS #2	I	Close	100	17.5	15.64	0.00	Right	0	-	-	1:1		5	0.769	1.535	**1.180**	C28
3 930.00	662000	CW SRS #3	E	Open	100	17.5	15.82	-0.18	Rear	0	-	-	1:1		10	0.091	1.472	0.134	-
3 930.00	662000	CW SRS #3	E	Open	100	17.5	15.82	-0.12	Front	0	-	-	1:1		10	0.053	1.472	0.078	-
3 930.00	662000	CW SRS #3	E	Open	100	17.5	15.82	-0.18	Left	0	-	-	1:1		10	0.191	1.472	0.281	-
3 930.00	662000	CW SRS #3	E	Open	100	17.5	15.82	0.13	Top	0	-	-	1:1		10	0.010	1.472	0.014	-
3 500.01	633334	CW SRS #3	E	Open	100	17.5	15.58	0.15	Left	0	-	-	1:1		10	0.121	1.556	0.188	-
3 930.00	662000	CW SRS #3	E	Close	100	17.5	15.82	0.10	Rear	0	-	-	1:1		5	0.109	1.472	0.160	-
3 930.00	662000	CW SRS #3	E	Close	100	17.5	15.82	-0.12	Front	0	-	-	1:1		5	0.174	1.472	0.256	-
3 930.00	662000	CW SRS #3	E	Close	100	17.5	15.82	0.03	Left	0	-	-	1:1		5	0.321	1.472	0.473	-
3 750.00	650000	CW SRS #3	E	Close	100	17.5	15.61	0.00	Left	0	-	-	1:1		5	0.169	1.545	0.261	-
3 930.00	662000	CW SRS #3	E	Close	100	17.5	15.82	0.10	Top	0	-	-	1:1		5	0.010	1.472	0.015	-
3 930.00	662000	CW SRS #3	E	Close	100	17.5	15.82	0.06	Bottom	0	-	-	1:1		5	0.014	1.472	0.021	-
3 500.01	633334	CW SRS #3	E	Close	100	17.5	15.58	-0.02	Left	0	-	-	1:1		5	0.314	1.556	0.489	-
3 750.00	650000	CW SRS #4	C	Open	100	11.0	10.38	-0.11	Rear	0	-	-	1:1		10	0.047	1.153	0.054	-
3 750.00	650000	CW SRS #4	C	Open	100	11.0	10.38	0.00	Front	0	-	-	1:1		10	0.029	1.153	0.033	-
3 750.00	650000	CW SRS #4	C	Open	100	11.0	10.38	0.00	Left	0	-	-	1:1		10	0.120	1.153	0.138	-
3 750.00	650000	CW SRS #4	C	Open	100	11.0	10.38	0.16	Bottom	0	-	-	1:1		10	0.017	1.153	0.020	-
3 500.01	633334	CW SRS #4	C	Open	100	11.0	9.69	0.17	Left	0	-	-	1:1		10	0.138	1.352	0.187	-
3 750.00	650000	CW SRS #4	C	Close	100	11.0	10.38	-0.13	Rear	0	-	-	1:1		5	0.073	1.153	0.084	-
3 750.00	650000	CW SRS #4	C	Close	100	11.0	10.38	0.00	Front	0	-	-	1:1		5	0.007	1.153	0.009	-
3 750.00	650000	CW SRS #4	C	Close	100	11.0	10.38	0.13	Left	0	-	-	1:1		5	0.172	1.153	0.198	-
3 750.00	650000	CW SRS #4	C	Close	100	11.0	10.38	0.13	Top	0	-	-	1:1		5	0.001	1.153	0.002	-
3 750.00	650000	CW SRS #4	C	Close	100	11.0	10.38	0.16	Bottom	0	-	-	1:1		5	0.007	1.153	0.008	-
3 500.01	633334	CW SRS #4	C	Close	100	11.0	9.69	0.12	Left	0	-	-	1:1		5	0.258	1.352	0.349	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population															Body 1.6 W/kg Averaged over 1 gram				

Note: # Data entry indicate Variability measurement.

DTS Hotspot SAR

Frequency		Mode	Form Factor	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
2 412	1	802.11b	Open	Ant.1	20	1	19.0	17.94	-0.17	Rear	98.8	10	0.263	0.174	1.276	1.012	0.225	-
2 412	1	802.11b	Open	Ant.1	20	1	19.0	17.94	0.12	Front	98.8	10	0.185	0.121	1.276	1.012	0.156	-
2 412	1	802.11b	Open	Ant.1	20	1	19.0	17.94	-0.12	Left	98.8	10	0.305	0.195	1.276	1.012	0.252	-
2 412	1	802.11b	Open	Ant.1	20	1	19.0	17.94	-0.18	Top	98.8	10	0.158	0.079	1.276	1.012	0.102	-
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.94	0.12	Rear	98.8	5	0.104	0.059	1.276	1.012	0.076	-
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.94	-0.04	Front	98.8	5	0.732	0.385	1.276	1.012	**0.497**	C29
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.94	-0.17	Left	98.8	5	0.632	0.378	1.276	1.012	0.488	-
2 412	1	802.11b	Close	Ant.1	20	1	19.0	17.94	-0.09	Bottom	98.8	5	0.219	0.120	1.276	1.012	0.155	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.45	-0.03	Rear	98.8	10	0.112	0.071	1.429	1.012	0.103	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.45	0.18	Front	98.8	10	0.0977	0.061	1.429	1.012	0.088	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.45	-0.01	Right	98.8	10	0.0493	0.011	1.429	1.012	0.016	-
2 437	6	802.11b	Open	Ant.2	20	1	19.0	17.45	0.09	Top	98.8	10	0.151	0.094	1.429	1.012	0.136	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.45	0.19	Rear	98.8	10	0.078	0.052	1.429	1.012	0.075	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.45	-0.16	Front	98.8	10	0.548	0.279	1.429	1.012	0.404	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.45	0.10	Right	98.8	10	0.241	0.092	1.429	1.012	0.133	-
2 437	6	802.11b	Close	Ant.2	20	1	19.0	17.45	0.01	Bottom	98.8	10	0.252	0.141	1.429	1.012	0.204	-

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

5 GHz WLAN Hotspot SAR

Frequency		Mode	Ant.	Form Factor	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5 785	157	802.11a	Ant.1	Open	20	6	16.0	15.10	0.19	Rear	93.7	10	0.574	0.222	1.230	1.067	0.291	-
5 785	157	802.11a	Ant.1	Open	20	6	16.0	15.10	0.00	Front	93.7	10	0.291	0.090	1.230	1.067	0.118	-
5 785	157	802.11a	Ant.1	Open	20	6	16.0	15.10	0.14	Left	93.7	10	0.663	0.270	1.230	1.067	0.354	-
5 785	157	802.11a	Ant.1	Open	20	6	16.0	15.10	0.13	Top	93.7	10	0.200	0.085	1.230	1.067	0.112	-
5 785	157	802.11a	Ant.1	Close	20	6	16.0	15.10	0.11	Rear	93.7	5	0.190	0.071	1.230	1.067	0.093	-
5 785	157	802.11a	Ant.1	Close	20	6	16.0	15.10	-0.11	Front	93.7	5	2.210	0.709	1.230	1.067	**0.931**	C30
5 825	165	802.11a	Ant.1	Close	20	6	16.0	15.09	-0.11	Front	93.7	5	1.820	0.576	1.233	1.067	0.758	-
5 785	157	802.11a	Ant.1	Close	20	6	16.0	15.10	-0.16	Left	93.7	5	1.120	0.439	1.230	1.067	0.576	-
5 785	157	802.11a	Ant.1	Close	20	6	16.0	15.10	0.14	Bottom	93.7	5	0.289	0.112	1.230	1.067	0.147	-
5 785	157	802.11a	Ant.2	Open	20	6	16.0	15.10	-0.19	Rear	93.7	10	0.342	0.090	1.230	1.067	0.118	-
5 785	157	802.11a	Ant.2	Open	20	6	16.0	15.10	0.05	Front	93.7	10	0.127	0.027	1.230	1.067	0.035	-
5 785	157	802.11a	Ant.2	Open	20	6	16.0	15.10	-0.11	Right	93.7	10	0.126	0.044	1.230	1.067	0.058	-
5 785	157	802.11a	Ant.2	Open	20	6	16.0	15.10	-0.19	Top	93.7	10	0.147	0.036	1.230	1.067	0.047	-
5 785	157	802.11a	Ant.2	Close	20	6	16.0	15.10	-0.19	Rear	93.7	5	0.169	0.023	1.230	1.067	0.030	-
5 785	157	802.11a	Ant.2	Close	20	6	16.0	15.10	-0.19	Front	93.7	5	0.572	0.174	1.230	1.067	0.228	-
5 785	157	802.11a	Ant.2	Close	20	6	16.0	15.10	-0.18	Right	93.7	5	0.336	0.09	1.230	1.067	0.118	-
5 785	157	802.11a	Ant.2	Close	20	6	16.0	15.10	-0.16	Bottom	93.7	5	0.357	0.125	1.230	1.067	0.164	-

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

DSS Tethering SAR													
Frequency		Mode	Form Factor	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Distance	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)		(mm)	(W/kg)		(Duty)	(W/kg)	
2 402	0	Bluetooth DH5	Open	Ant.1	19	18.88	0.19	Rear	10	0.109	1.028	1.010	0.113	-
2 402	0	Bluetooth DH5	Open	Ant.1	19	18.88	0.12	Front	10	0.100	1.028	1.010	0.104	-
2 402	0	Bluetooth DH5	Open	Ant.1	19	18.88	0.15	Left	10	0.253	1.028	1.010	0.263	-
2 402	0	Bluetooth DH5	Open	Ant.1	19	18.88	0.10	Top	10	0.077	1.028	1.010	0.080	-
2 402	0	Bluetooth DH5	Close	Ant.1	19	18.88	-0.09	Rear	5	0.069	1.028	1.010	0.072	-
2 402	0	Bluetooth DH5	Close	Ant.1	19	18.88	-0.14	Front	5	0.351	1.028	1.010	0.364	-
2 402	0	Bluetooth DH5	Close	Ant.1	19	18.88	0.00	Left	5	0.557	1.028	1.010	**0.578**	**C31**
2 402	0	Bluetooth DH5	Close	Ant.1	19	18.88	0.17	Bottom	5	0.173	1.028	1.010	0.180	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

13.4 Phablet SAR Measurement Considerations

Per FCC KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

13.5 Phablet SAR Measurement Results

UMTS Band 2 SAR Phablet SAR _10g															
Frequency		Mode	Ant.	Form Factor	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dB)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880	9400	UMTS Band 2 RMC	A	Open	21.0	20.32	-0.11	Rear	1:1	0		1.69	1.169	1.976	-
1 880	9400	UMTS Band 2 RMC	A	Open	21.0	20.32	0.10	Front	1:1	0		1.69	1.169	**1.976**	D1
1 880	9400	UMTS Band 2 RMC	A	Open	21.0	20.32	0.01	Left	1:1	0		0.337	1.169	0.394	-
1 880	9400	UMTS Band 2 RMC	A	Open	21.0	20.32	0.03	Right	1:1	0		0.147	1.169	0.172	-
1 880	9400	UMTS Band 2 RMC	A	Open	21.0	20.32	0.10	Bottom	1:1	0		1.02	1.169	1.192	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Hand 4.0 W/kg Averaged over 10 gram							

LTE FDD Band 25 (PCS) Phablet SAR _10g																		
Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 905	26590	QPSK	A	Open	20	21.3	20.45	0.11	Rear	0	1	99	1:1		0	2.120	1.216	2.578	-
1 860	26140	QPSK	A	Open	20	21.3	20.38	-0.17	Rear	0	1	99	1:1		0	1.860	1.236	2.299	-
1 882.5	26365	QPSK	A	Open	20	21.3	20.43	-0.14	Rear	0	1	99	1:1		0	1.800	1.222	2.200	-
1 905	26590	QPSK	A	Open	20	21.3	20.44	-0.05	Rear	0	50	49	1:1		0	1.810	1.219	2.206	-
1 860	26140	QPSK	A	Open	20	21.3	20.36	0.00	Rear	0	50	25	1:1		0	1.990	1.242	2.472	-
1 882.5	26365	QPSK	A	Open	20	21.3	20.39	-0.15	Rear	0	50	25	1:1		0	1.900	1.233	2.343	-
1 905	26590	QPSK	A	Open	20	21.3	20.31	-0.16	Rear	0	100	0	1:1		0	2.250	1.256	**2.826**	D2
1 905	26590	QPSK	A	Open	20	21.3	20.45	0.00	Front	0	1	99	1:1		0	1.270	1.216	1.544	-
1 905	26590	QPSK	A	Open	20	21.3	20.44	0.14	Front	0	50	49	1:1		0	1.240	1.219	1.512	-
1 905	26590	QPSK	A	Open	20	21.3	20.45	-0.11	Left	0	1	99	1:1		0	0.129	1.216	0.157	-
1 905	26590	QPSK	A	Open	20	21.3	20.44	-0.06	Left	0	50	49	1:1		0	0.125	1.219	0.152	-
1 905	26590	QPSK	A	Open	20	21.3	20.45	0.14	Right	0	1	99	1:1		0	0.157	1.216	0.191	-
1 905	26590	QPSK	A	Open	20	21.3	20.44	0.14	Right	0	50	49	1:1		0	0.141	1.219	0.172	-
1 905	26590	QPSK	A	Open	20	21.3	20.45	0.10	Bottom	0	1	99	1:1		0	1.580	1.216	1.921	-
1 905	26590	QPSK	A	Open	20	21.3	20.44	0.10	Bottom	0	50	49	1:1		0	1.560	1.219	1.902	-
1 905	26590	QPSK	A	Open	20	21.3	20.31	-0.10	Rear	0	100	0	1:1		0	2.250	1.256	2.826	#
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Hand 4.0 W/kg Averaged over 10 gram										

Note: # Data entry indicate Variability measurement.

LTE FDD Band 30 Phablet SAR _10g

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 310	27710	QPSK	B	Open	10	20.0	19.15	-0.06	Rear	0	1	49	1:1		0	1.020	1.216	1.240	-
2 310	27710	QPSK	B	Open	10	20.0	19.05	0.16	Rear	0	25	24	1:1		0	1.060	1.245	**1.320**	D3
2 310	27710	QPSK	B	Open	10	20.0	19.15	0.00	Front	0	1	49	1:1		0	0.816	1.216	0.992	-
2 310	27710	QPSK	B	Open	10	20.0	19.05	0.00	Front	0	25	24	1:1		0	0.828	1.245	1.031	-
2 310	27710	QPSK	B	Open	10	20.0	19.15	-0.10	Left	0	1	49	1:1		0	0.384	1.216	0.467	-
2 310	27710	QPSK	B	Open	10	20.0	19.05	0.00	Left	0	25	24	1:1		0	0.388	1.245	0.483	-
2 310	27710	QPSK	B	Open	10	20.0	19.15	0.16	Bottom	0	1	49	1:1		0	0.837	1.216	1.018	-
2 310	27710	QPSK	B	Open	10	20.0	19.05	0.19	Bottom	0	25	24	1:1		0	0.870	1.245	1.083	-

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

LTE FDD Band 66 (AWS) Phablet SAR _10g

CC UL PC	Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.85	0.00	Rear	0	1	0	1:1		0	1.340	1.161	1.556	-
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.75	0.00	Rear	0	50	0	1:1		0	1.380	1.189	1.641	-
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.85	0.06	Front	0	1	0	1:1		0	1.690	1.161	1.962	-
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.75	0.11	Front	0	50	0	1:1		0	1.680	1.189	1.998	-
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.85	0.19	Right	0	1	0	1:1		0	2.120	1.161	2.461	-
1CC UL	1 720	132072	QPSK	I	Open	20	21.5	20.57	0.18	Right	0	1	49	1:1		0	2.090	1.239	**2.590**	D4
1CC UL	1 770	132572	QPSK	I	Open	20	21.5	20.62	0.17	Right	0	1	49	1:1		0	2.010	1.225	2.462	-
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.75	0.15	Right	0	50	0	1:1		0	2.100	1.189	2.497	-
1CC UL	1 720	132072	QPSK	I	Open	20	21.5	20.65	0.18	Right	0	50	25	1:1		0	2.030	1.216	2.468	-
1CC UL	1 770	132572	QPSK	I	Open	20	21.5	20.65	0.11	Right	0	50	25	1:1		0	2.120	1.216	2.578	-
1CC UL	1 720	132072	QPSK	I	Open	20	21.5	20.66	0.18	Right	0	100	0	1:1		0	2.120	1.213	2.572	-
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.85	-0.12	Top	0	1	0	1:1		0	0.138	1.161	0.160	-
1CC UL	1 745	132322	QPSK	I	Open	20	21.5	20.75	0.18	Top	0	50	0	1:1		0	0.139	1.189	0.165	-
1CC UL	1 770	132572	QPSK	I	Open	20	21.5	20.65	0.14	Right	0	50	25	1:1		0	2.110	1.216	2.566	#
1CC UL	1 745	132322	QPSK	I	Open	15	21.5	20.89	0.15	Right	0	1	0	1:1		0	1.930	1.151	2.221	-
2CC UL (66B)	PCC 1 745	132322	QPSK	I	Open	15	21.5	20.81	0.14	Right	0	1	0	1:1		0	2.080	1.172	2.438	•
2CC UL (66B)	SCC 1 735.7	132229	QPSK			5						1	24							
2CC UL (66C)	PCC 1 745	132322	QPSK	I	Open	20	21.5	20.78	-0.17	Right	0	1	0	1:1		0	2.070	1.180	2.443	••
2CC UL (66C)	SCC 1 725.2	132124	QPSK			20						1	99							

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

Note: # Data entry indicate Variability measurement.

• Up-link Carrier Aggregation (66B)

•• Up-link Carrier Aggregation (66C)

NR FDD Band n25 Phablet SAR _10g

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.50	0.14	Rear	0	1	108	1:1		0	1.860	1.202	2.236	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.47	-0.15	Rear	0	108	54	1:1		0	1.970	1.211	2.386	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.30	0.11	Rear	0	216	0	1:1		0	1.950	1.259	2.455	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.50	0.00	Front	0	1	108	1:1		0	1.880	1.202	2.260	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.47	0.15	Front	0	108	54	1:1		0	1.950	1.211	2.361	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.50	0.16	Front	0	216	0	1:1		0	1.950	1.202	2.344	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.50	0.17	Left	0	1	108	1:1		0	0.342	1.202	0.411	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.47	0.12	Left	0	108	54	1:1		0	0.350	1.211	0.424	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.50	0.11	Right	0	1	108	1:1		0	0.146	1.202	0.175	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.47	0.12	Right	0	108	54	1:1		0	0.148	1.211	0.179	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.50	0.18	Bottom	0	1	108	1:1		0	1.230	1.202	1.478	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.47	0.18	Bottom	0	108	54	1:1		0	1.690	1.211	2.047	-
1 882.5	376500	DFT-s OFDM QPSK	A	Open	40	21.3	20.30	0.11	Bottom	0	216	0	1:1		0	0.992	1.259	1.249	-
1 882.5	376500	CP QPSK	A	Open	40	21.3	20.33	-0.15	Rear	0	1	1	1:1		0	1.870	1.250	2.338	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.95	0.05	Rear	0	1	214	1:1		0	1.420	1.274	1.809	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.85	0.16	Rear	0	108	54	1:1		0	1.490	1.303	1.941	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.95	-0.18	Front	0	1	214	1:1		0	1.200	1.274	1.529	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.85	0.12	Front	0	108	54	1:1		0	1.270	1.303	1.655	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.95	-0.18	Right	0	1	214	1:1		0	2.010	1.274	2.561	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.85	0.18	Right	0	108	54	1:1		0	2.160	1.303	**2.814**	D5
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.89	-0.12	Right	0	216	0	1:1		0	2.160	1.291	2.789	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.95	0.08	Top	0	1	214	1:1		0	0.135	1.274	0.172	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.85	0.15	Top	0	108	54	1:1		0	0.139	1.303	0.181	-
1 882.5	376500	CP QPSK	I	Open	40	22.0	21.16	-0.19	Right	0	1	1	1:1		0	2.080	1.213	2.523	-
1 882.5	376500	DFT-s OFDM QPSK	I	Open	40	22.0	20.85	-0.01	Right	0	108	54	1:1		0	2.060	1.303	2.684	#

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

Note: # Data entry indicate Variability measurement.

NR FDD Band n30 Phablet SAR _10g

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.16	-0.13	Rear	0	1	1	1:1		0	0.792	1.213	0.961	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.17	-0.16	Rear	0	25	0	1:1		0	1.03	1.211	**1.247**	D6
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.16	0.00	Front	0	1	1	1:1		0	0.889	1.213	1.078	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.17	0.00	Front	0	25	0	1:1		0	0.902	1.211	1.092	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.16	0.11	Left	0	1	1	1:1		0	0.37	1.213	0.449	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.17	0.12	Left	0	25	0	1:1		0	0.375	1.211	0.454	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.16	-0.17	Bottom	0	1	1	1:1		0	0.739	1.213	0.896	-
2 310	462000	DFT-s OFDM QPSK	B	Open	10	20.0	19.17	-0.14	Bottom	0	25	0	1:1		0	0.759	1.211	0.919	-
2 310	462000	CP QPSK	B	Open	10	20.0	19.53	0.11	Rear	0	1	1	1:1		0	1.000	1.114	1.114	-

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

NR TDD Band n38 Phablet SAR _10g

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.26	0.00	Rear	0	1	1	1:1		0	1.720	1.057	1.818	-
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.20	0.00	Rear	0	50	28	1:1		0	1.690	1.072	1.812	-
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.26	0.00	Front	0	1	1	1:1		0	0.964	1.057	1.019	-
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.20	0.00	Front	0	50	28	1:1		0	0.932	1.072	0.999	-
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.26	-0.14	Left	0	1	1	1:1		0	0.526	1.057	0.556	-
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.20	-0.13	Left	0	50	28	1:1		0	0.472	1.072	0.506	-
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.26	-0.03	Bottom	0	1	1	1:1		0	1.430	1.057	1.512	-
2 595.00	519000	DFT-s OFDM QPSK	B	Open	40	20.5	20.20	0.06	Bottom	0	50	28	1:1		0	1.400	1.072	1.501	-
2 595.00	519000	CP QPSK	B	Open	40	20.5	19.61	0.00	Rear	0	1	1	1:1		0	1.750	1.227	**2.147**	D7

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

NR FDD Band n66 Phablet SAR _10g

Frequency		Mode	Ant.	Form Factor	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.55	-0.06	Rear	0	1	1	1:1		0	2.330	1.189	2.770	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.59	-0.02	Rear	0	108	54	1:1		0	2.390	1.178	**2.815**	D8
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.35	-0.01	Rear	0	216	0	1:1		0	2.220	1.245	2.764	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.55	0.00	Front	0	1	1	1:1		0	1.810	1.189	2.152	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.59	-0.03	Front	0	108	54	1:1		0	1.840	1.178	2.168	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.35	0.01	Front	0	216	0	1:1		0	1.870	1.245	2.328	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.55	0.02	Left	0	1	1	1:1		0	0.222	1.189	0.264	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.59	0.03	Left	0	108	54	1:1		0	0.220	1.178	0.259	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.55	0.09	Right	0	1	1	1:1		0	0.146	1.189	0.174	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.59	0.17	Right	0	108	54	1:1		0	0.143	1.178	0.168	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.55	0.10	Bottom	0	1	1	1:1		0	1.840	1.189	2.188	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.59	0.18	Bottom	0	108	54	1:1		0	1.720	1.178	2.026	-
1 745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.55	0.07	Bottom	0	216	0	1:1		0	1.600	1.189	1.902	-
1 745	349000	CP OFDM QPSK	A	Open	40	21.3	20.79	-0.02	Rear	0	1	1	1:1		0	2.180	1.125	2.453	-
1745	349000	DFT-s OFDM QPSK	A	Open	40	21.3	20.59	0.18	Rear	0	108	54	1:1		0	2.320	1.178	2.733	#

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

Note: # Data entry indicate Variability measurement.

5 GHz WLAN Phablet SAR _10g

Frequency		Mode	Ant.	Form Factor	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
5 300	60	802.11a	Ant.1	Open	20	6	16.0	14.85	0.00	Rear	93.7	0	5.73	0.538	1.303	1.067	0.748	-
5 300	60	802.11a	Ant.1	Open	20	6	16.0	14.85	0.00	Front	93.7	0	4.52	0.458	1.303	1.067	0.637	-
5 300	60	802.11a	Ant.1	Open	20	6	16.0	14.85	0.06	Left	93.7	0	13.9	1.21	1.303	1.067	1.683	-
5 300	60	802.11a	Ant.1	Open	20	6	16.0	14.85	0.17	Top	93.7	0	1.61	0.199	1.303	1.067	0.277	-
5 620	124	802.11a	Ant.1	Open	20	6	16.0	15.11	0.00	Rear	93.7	0	4.12	0.378	1.227	1.067	0.495	-
5 620	124	802.11a	Ant.1	Open	20	6	16.0	15.11	0.00	Front	93.7	0	4.73	0.408	1.227	1.067	0.534	-
5 620	124	802.11a	Ant.1	Open	20	6	16.0	15.11	0.10	Left	93.7	0	16	1.36	1.227	1.067	**1.781**	**D9**
5 620	124	802.11a	Ant.1	Open	20	6	16.0	15.11	0.12	Top	93.7	0	1.19	0.159	1.227	1.067	0.208	-
5 865	173	802.11a	Ant.1	Open	20	6	16.0	15.25	0.00	Rear	93.7	0	5.39	0.459	1.189	1.067	0.582	-
5 865	173	802.11a	Ant.1	Open	20	6	16.0	15.25	0.00	Front	93.7	0	5.66	0.521	1.189	1.067	0.661	-
5 865	173	802.11a	Ant.1	Open	20	6	16.0	15.25	-0.11	Left	93.7	0	13.8	1.26	1.189	1.067	1.599	-
5 865	173	802.11a	Ant.1	Open	20	6	16.0	15.25	0.00	Top	93.7	0	1.2	0.141	1.189	1.067	0.179	-
5 300	60	802.11a	Ant.2	Open	20	6	16.0	15.40	0.00	Rear	93.7	0	2.92	0.224	1.148	1.067	0.274	-
5 300	60	802.11a	Ant.2	Open	20	6	16.0	15.40	0.00	Front	93.7	0	3.64	0.229	1.148	1.067	0.281	-
5 300	60	802.11a	Ant.2	Open	20	6	16.0	15.40	0.09	Right	93.7	0	1.42	0.18	1.148	1.067	0.221	-
5 300	60	802.11a	Ant.2	Open	20	6	16.0	15.40	0.17	Top	93.7	0	2.3	0.179	1.148	1.067	0.219	-
5 600	120	802.11a	Ant.2	Open	20	6	16.0	15.79	0.00	Rear	93.7	0	3.0	0.256	1.050	1.067	0.287	-
5 600	120	802.11a	Ant.2	Open	20	6	16.0	15.79	0.00	Front	93.7	0	3.07	0.197	1.050	1.067	0.221	-
5 600	120	802.11a	Ant.2	Open	20	6	16.0	15.79	0.14	Right	93.7	0	1.13	0.148	1.050	1.067	0.166	-
5 600	120	802.11a	Ant.2	Open	20	6	16.0	15.79	0.06	Top	93.7	0	1.92	0.19	1.050	1.067	0.213	-
5 865	173	802.11a	Ant.2	Open	20	6	16.0	14.56	0.00	Rear	93.7	0	2.7	0.163	1.393	1.067	0.242	-
5 865	173	802.11a	Ant.2	Open	20	6	16.0	14.56	0.00	Front	93.7	0	2.2	0.17	1.393	1.067	0.253	-
5 865	173	802.11a	Ant.2	Open	20	6	16.0	14.56	0.11	Right	93.7	0	0.845	0.111	1.393	1.067	0.165	-
5 865	173	802.11a	Ant.2	Open	20	6	16.0	14.56	0.01	Top	93.7	0	1.33	0.095	1.393	1.067	0.141	-

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

DSS Phablet SAR_10g

Frequency		Mode	Form Factor	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Distance	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.				(dBm)	(dBm)	(dB)		(mm)	(W/kg)		(Duty)	(W/kg)	
2 441	39	Bluetooth DH5	Open	Ant.2	18	17.55	0.00	Rear	0	0.34	1.109	1.010	0.381	-
2 441	39	Bluetooth DH5	Open	Ant.2	18	17.55	0.00	Front	0	0.563	1.109	1.010	0.631	-
2 441	39	Bluetooth DH5	Open	Ant.2	18	17.55	-0.16	Right	0	0.014	1.109	1.010	0.016	-
2 441	39	Bluetooth DH5	Open	Ant.2	18	17.55	0.09	Top	0	0.707	1.109	1.010	**0.792**	**D11**

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Hand 4.0 W/kg Averaged over 10 gram

NFC Phablet SAR _10g							
Frequency	Mode	Data Rate	Power Drift	Test Position	Distance	Meas. SAR	Plot No.
MHz		(Kbps)	(dB)		(mm)	(W/kg)	
13.56	NFC (Type A)	106	0.17	Rear	0	**0.00743**	**D10**
13.56	NFC (Type B)	106	0.11	Rear	0	0.00712	-
13.56	NFC (Type F)	106	0.00	Rear	0	0	-
13.56	NFC (Type A)	106	0.00	Front	0	0	-
13.56	NFC (Type A)	106	0.00	Left	0	0	-
13.56	NFC (Type A)	106	0.00	Right	0	0	-
13.56	NFC (Type A)	106	0.13	Top	0	0.000627	-
13.56	NFC (Type A)	106	0.00	Bottom	0	0	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population			Hand 4.0 W/kg Averaged over 10 gram				

13.6 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency Band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspot operation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.

GSM/GPRS Test Notes:

1. This EUT'S GSM and GPRS device class is B.
2. This device supports GPRS VOIP in the head and the body-worn configurations therefore GPRS was additionally evaluated for head and body-worn compliance.
3. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
4. Per FCC KDB 447498 D04v01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.

UMTS Notes:

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
   When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
   Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0 for some modes.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S sub frames using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. Per KDB 941225 D05Av01r02, SAR for LTE Carrier Aggregation operations was not needed because the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink CA was not activated.
9. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.
10. This device supports LTE Carrier Aggregation (CA) in Uplink for LTE Band 41C, 48C, 66B, 66C with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per Fall 2017 TCBC Workshop notes (LTE Carrier aggregation).
    For LTE Band per 2018 TCBC Workshop notes, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active.
    Because the maximum output for UL CA of LTE Band 41C, 48C, 66B, 66C is ≤ standalone LTE mode (without CA), SAR for LTE Band 41C, 48C, 66B, 66C Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is < 1.4 W/kg.

The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

11. SAR test reduction is applied using the following criteria:
Start with the largest channel Bandwidth and measure SAR for QPSK with 1 RB, and 50 % RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50 % RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel Bandwidths is not required because the reported SAR for the highest channel Bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel Bandwidth.

NR Notes:

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

WLAN Notes:

1. For held-to-ear and hotspot operations, the initial test position procedures were applied. For initial test position, the highest extrapolated peak SAR will be used. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g SAR and ≤ 1.0 W/kg for 10g SAR, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR results is ≤ 0.8 W/kg for 1g SAR and ≤ 2.0 W/kg for 10 g SAR or all test position are measured.

2. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHz WiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR.

3. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHz WiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode was not investigated since the highest reported SAR for initial test configuration adjusted by the ration of maximum output powers is less than 1.2 W/kg for 1 g SAR and less than 3.0 W/kg for 10 g SAR.

4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.

5. The device was configured to transmit continuously at the required data rated, channel Bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

Bluetooth Notes:

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

14. Simultaneous SAR Analysis

This device is containing transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6W/kg for 1g SAR and ≤4 W/kg for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

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

14.1 Phablet (DSI = 1) Simultaneous Transmission Analysis

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

Position	Main/WLAN/ Bluetooth 10g SAR[W/kg	NFC 10g SAR[W/kg]	SUM 10g SAR [W/kg]
Rear	2.826	0.01	**2.836**
Front	2.361	0	2.361
Left	1.781	0	1.781
Right	2.814	0	2.814
Top	0.792	0	0.792
Bottom	2.188	0	2.188

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

14.2 Conclusion

The above numerical summed SAR results is sufficient to show that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01V06 and IEEE 1528-2013 Section 6.3.4.1

15. SAR Measurement Variability and Uncertainty

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

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

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.

2) When the original highest measured 1g SAR is ≥ 0.80 W/kg or 10g SAR ≥ 2.0W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg for 1g SAR or ≥ 3.625 W/kg for 10g SAR (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg for 1g SAR or ≥3.75 W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. 1.08

Head SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
㎒	Channel					
1 745	349000	NR FDD Band n66	Left Touch	0.878	0.852	1.03
3 500.01	633334	NR TDD Band n77	Right Touch	0.870	0.870	1.00

Body _Worn SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
㎒	Channel					
1 852.4	9262	UMTS Band 2	Rear	0.921	0.898	1.03
1 860	26140	LTE FDD Band 25	Rear	0.928	0.935	1.01
1 882.5	376500	NR FDD Band n25	Rear	0.986	0.921	1.07
1 745	349000	NR FDD Band n66	Rear	0.859	0.853	1.01

Hotspot SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 752.6	1513	UMTS Band 4	Bottom	0.912	0.908	1.00
2 535	21100	LTE FDD Band 7	Right	0.823	0.710	1.16
2 535	507000	NR FDD Band n7	Right	0.827	0.793	1.04
1 882.5	376500	NR FDD Band n25	Right	0.897	0.807	1.11
2 310	462000	NR FDD Band n30	Right	0.846	0.796	1.06
2 592.99	518598	NR TDD Band n41	Right	0.859	0.859	1.00
3 930	662000	NR TDD Band n77	Left	0.852	0.849	1.00

Phablet SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 905	26590	LTE FDD Band 25	Rear	2.250	2.250	1.00
1 770	132572	LTE FDD Band 66	Right	2.120	2.110	1.00
1 882.5	376500	NR FDD Band n25	Right	2.16	2.06	1.05
1 745	349000	NR FDD Band n66	Right	2.39	2.32	1.03

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

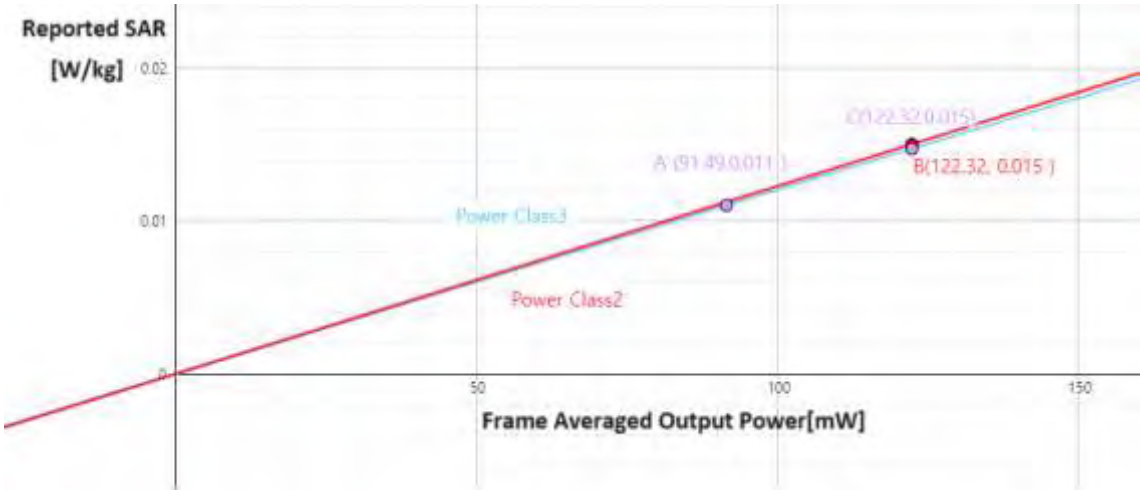
This Device Supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL Configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power class 3. SAR with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

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

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

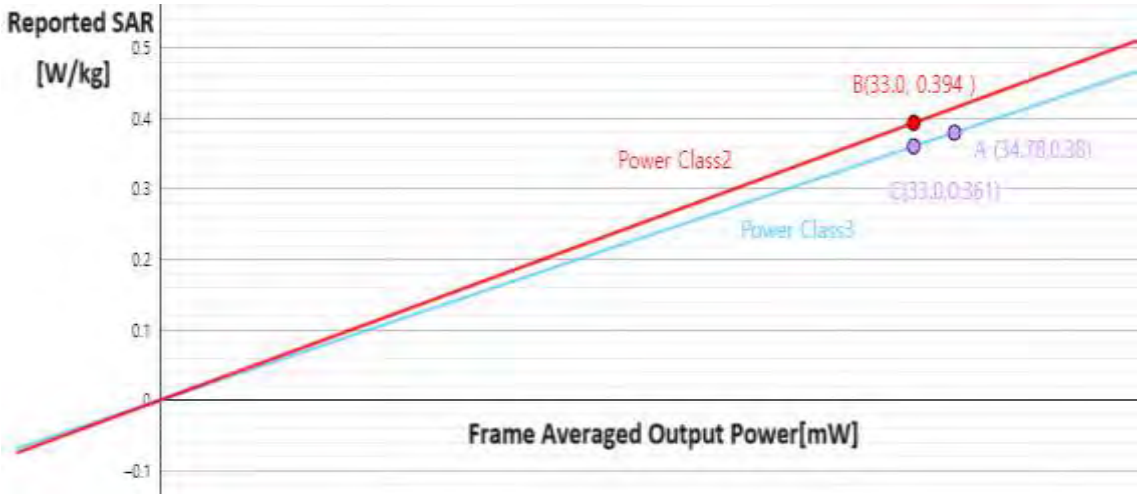
Ant B Head		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	25
Measured Output Power[dBm]	21.14	24.35
Reported SAR[W/kg]	0.012	0.013
Measured Power[mW]	130.02	272.27
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	82.3	117.89
% deviation from expected linearity		-24.37

Ant B Head ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	25
Measured Output Power[dBm]	21.6	24.51
Reported SAR[W/kg]	0.011	0.015
Measured Power[mW]	144.54	282.49
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	91.49	122.32
% deviation from expected linearity		1.99

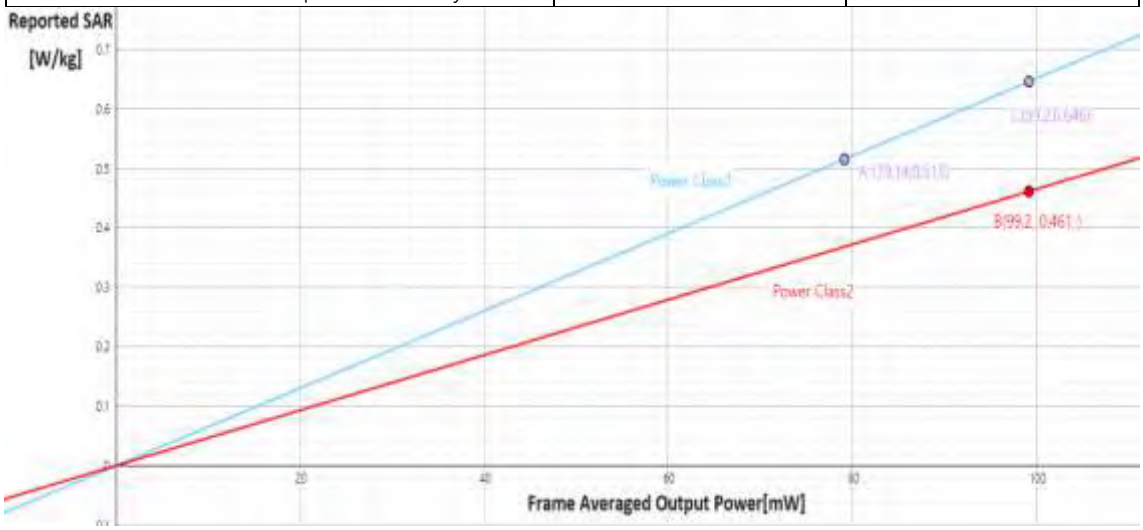


Ant B Open Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	18	19.6
Measured Output Power[dBm]	17.12	18.79
Reported SAR[W/kg]	0.477	0.4
Measured Power[mW]	51.52	75.68
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	32.61	32.77
% deviation from expected linearity		-16.55

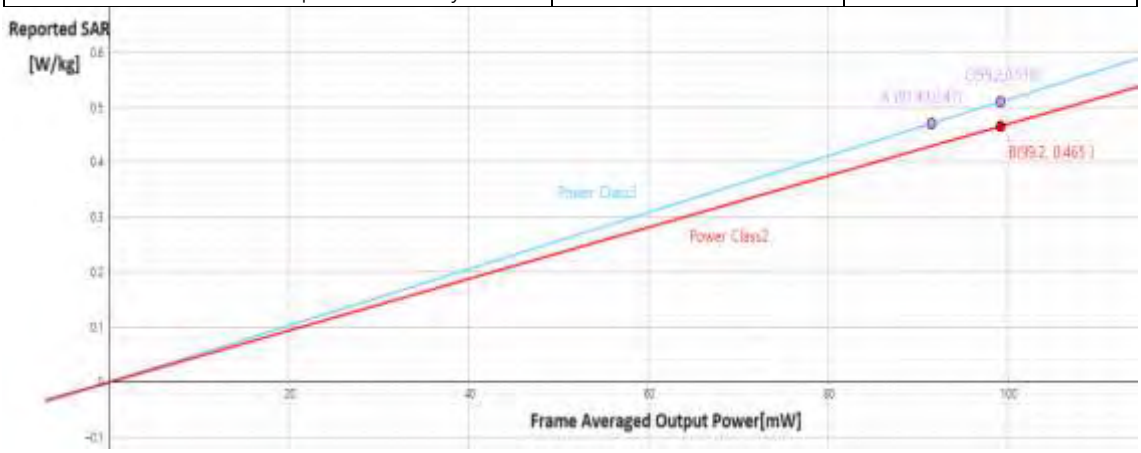
Ant B Open Hotspot ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	18	19.6
Measured Output Power[dBm]	17.4	18.82
Reported SAR[W/kg]	0.38	0.394
Measured Power[mW]	54.95	76.21
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	34.78	33
% deviation from expected linearity		9.28



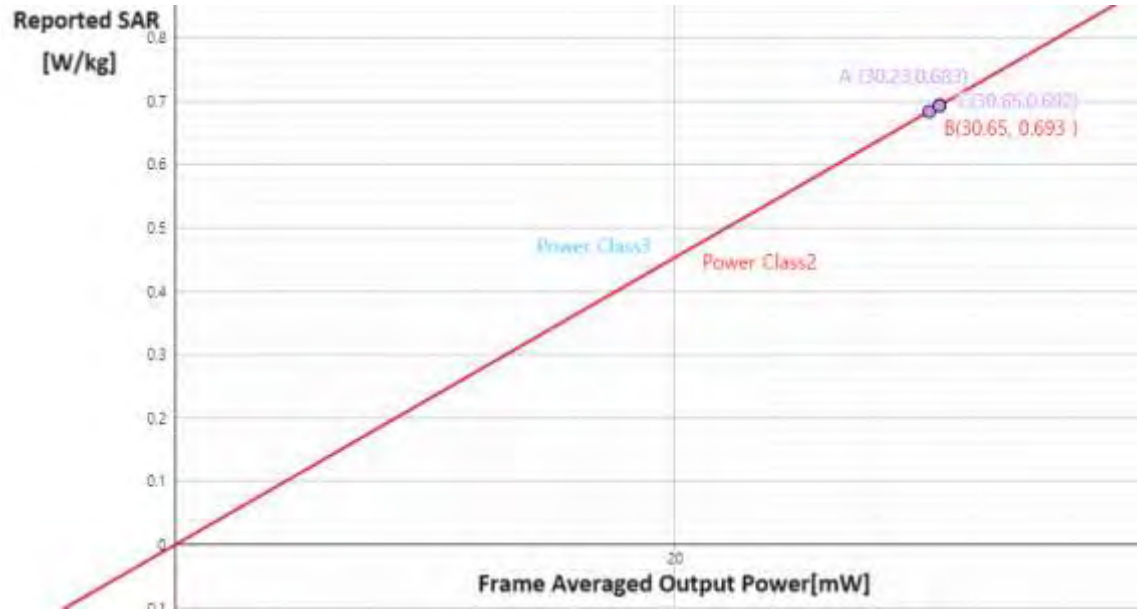
Ant B Open BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24.1
Measured Output Power[dBm]	20.97	23.6
Reported SAR[W/kg]	0.515	0.461
Measured Power[mW]	125.03	229.09
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	79.14	99.2
% deviation from expected linearity		-28.59



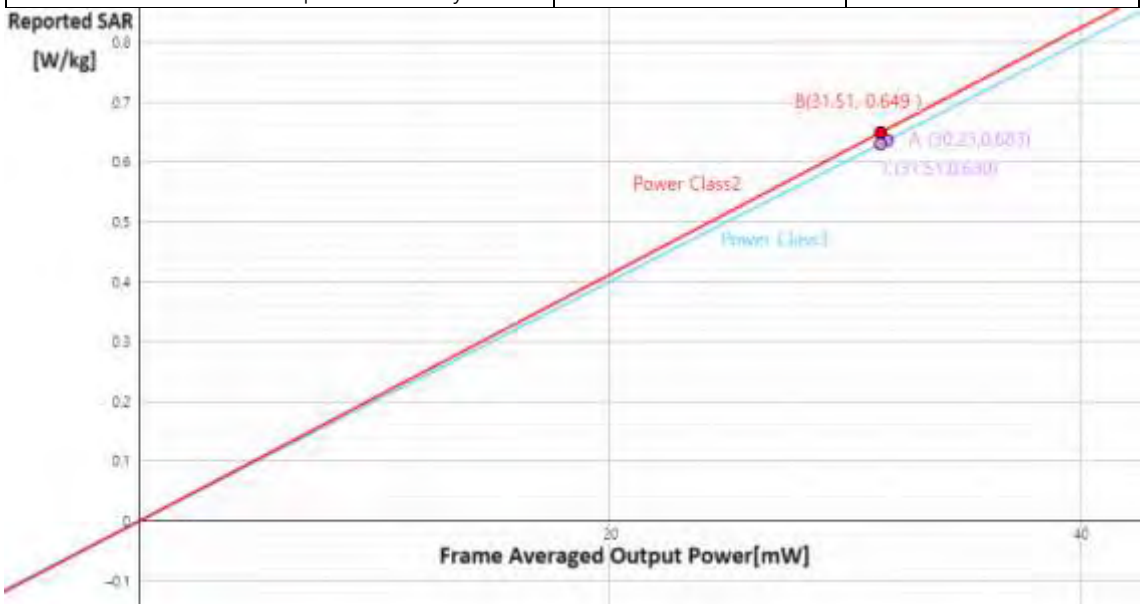
Ant B Open BodyWorn ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24.1
Measured Output Power[dBm]	21.6	23.6
Reported SAR[W/kg]	0.47	0.465
Measured Power[mW]	144.54	229.09
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	91.49	99.2
% deviation from expected linearity		-8.75



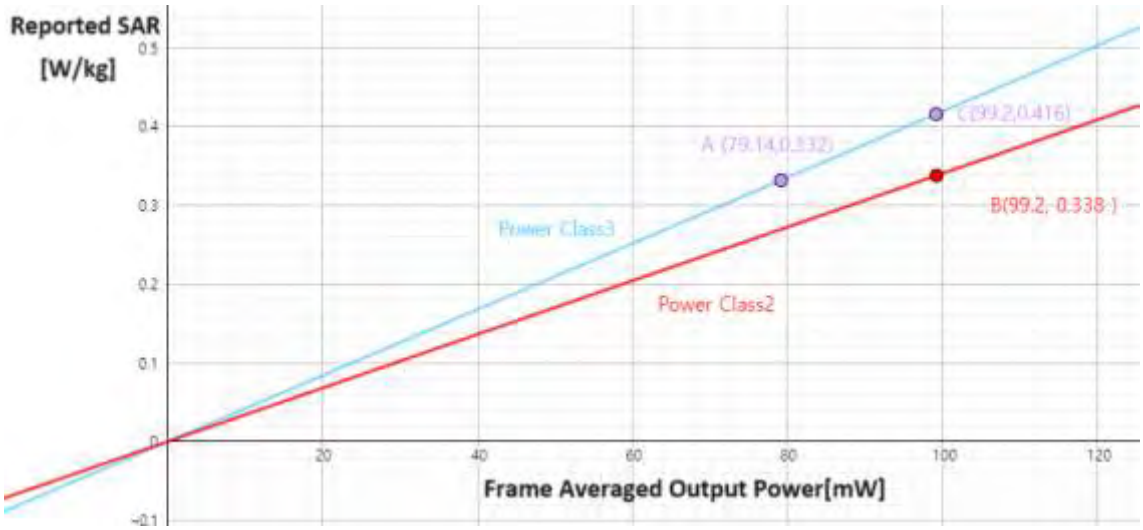
Ant B Close Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	18	19.6
Measured Output Power[dBm]	16.79	18.5
Reported SAR[W/kg]	0.683	0.693
Measured Power[mW]	47.75	70.79
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	30.23	30.65
% deviation from expected linearity		0.07



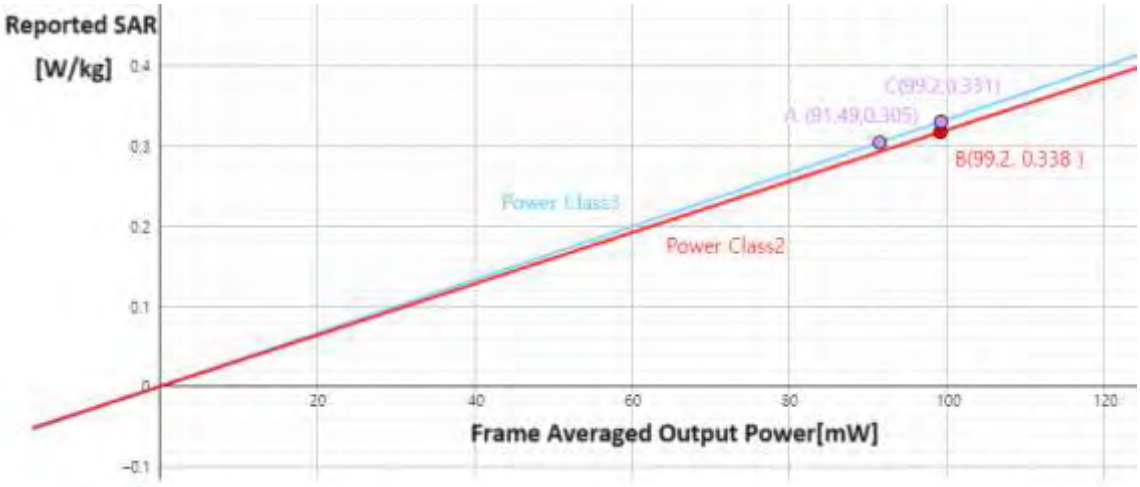
Ant B Close Hotspot ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	18	19.6
Measured Output Power[dBm]	17.01	18.62
Reported SAR[W/kg]	0.636	0.649
Measured Power[mW]	50.23	72.78
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	31.8	31.51
% deviation from expected linearity		2.98



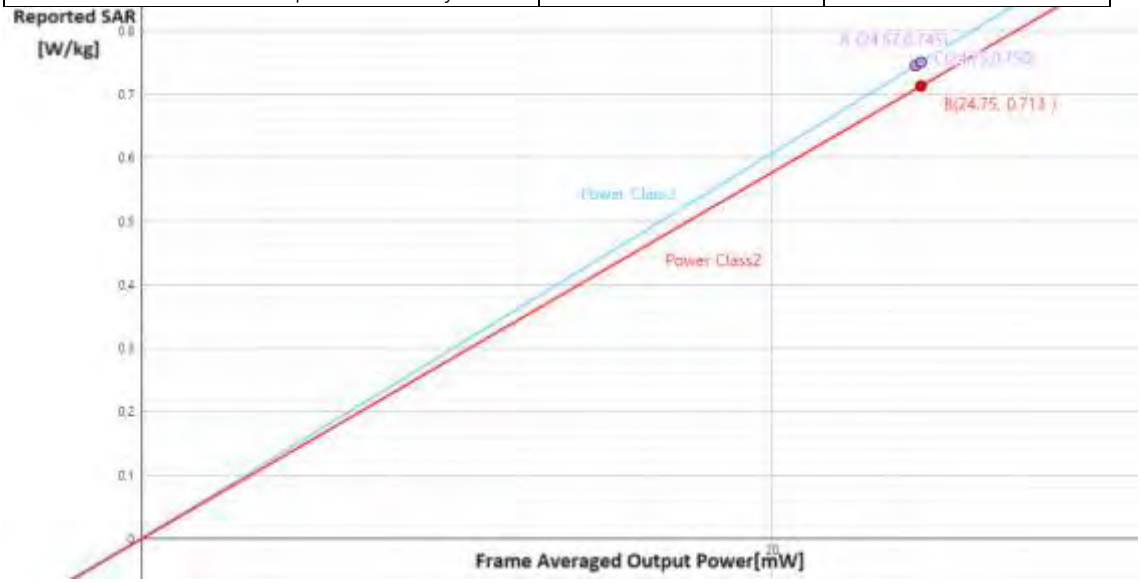
Ant B Close BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24.1
Measured Output Power[dBm]	20.97	23.6
Reported SAR[W/kg]	0.332	0.338
Measured Power[mW]	125.03	229.09
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	79.14	99.2
% deviation from expected linearity		-18.78



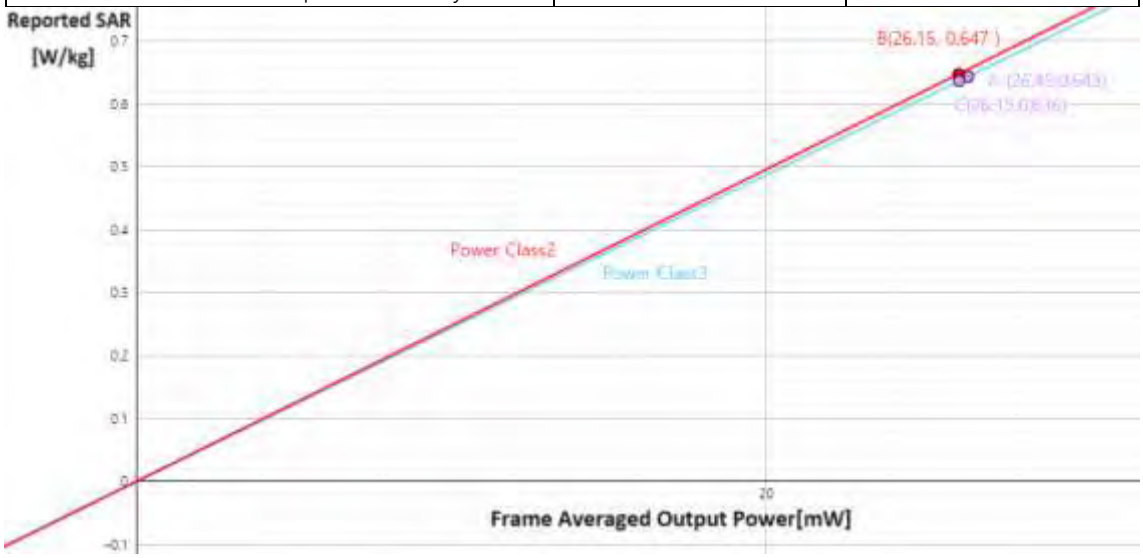
Ant B Close BodyWorn ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	22	24.1
Measured Output Power[dBm]	21.6	23.6
Reported SAR[W/kg]	0.305	0.318
Measured Power[mW]	144.54	229.09
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	91.49	99.2
% deviation from expected linearity		-3.84



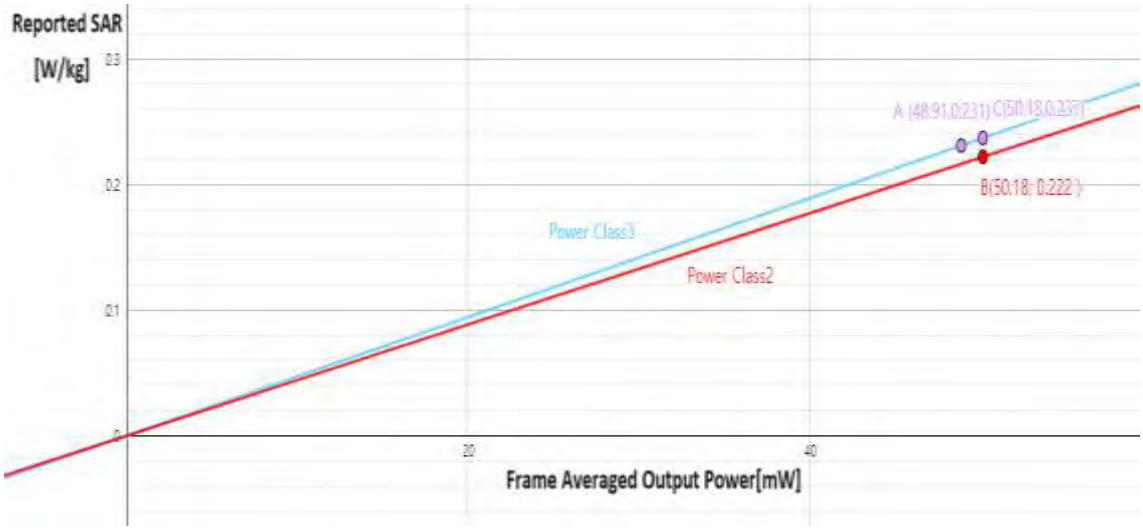
Ant I Head		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	16.8	18.4
Measured Output Power[dBm]	15.89	17.57
Reported SAR[W/kg]	0.745	0.713
Measured Power[mW]	38.82	57.15
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	24.57	24.75
% deviation from expected linearity		-4.99



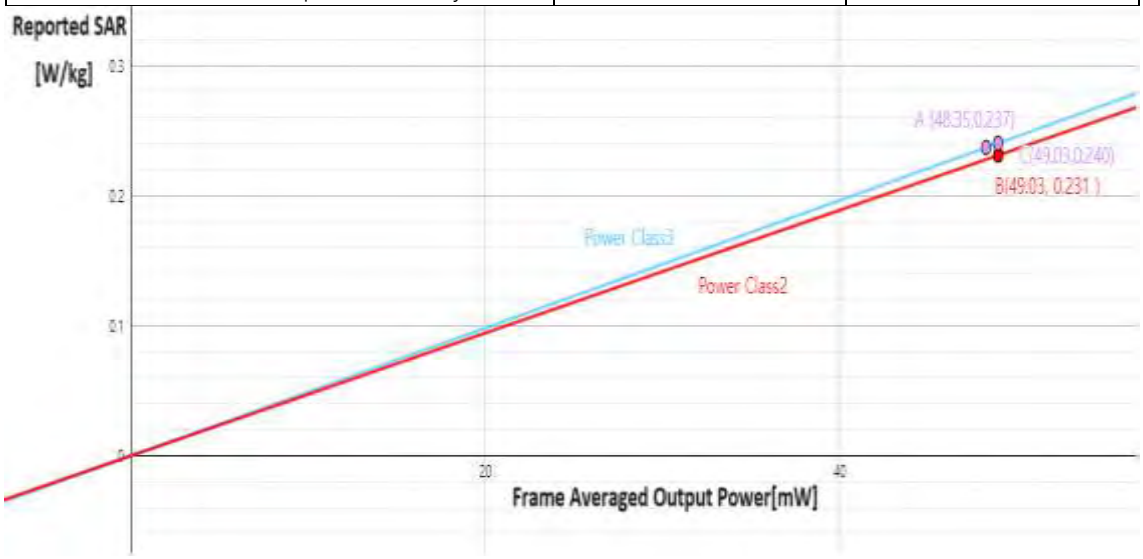
Ant I Head ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	16.8	18.4
Measured Output Power[dBm]	16.21	17.81
Reported SAR[W/kg]	0.643	0.647
Measured Power[mW]	41.78	60.39
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	26.45	26.15
% deviation from expected linearity		1.78



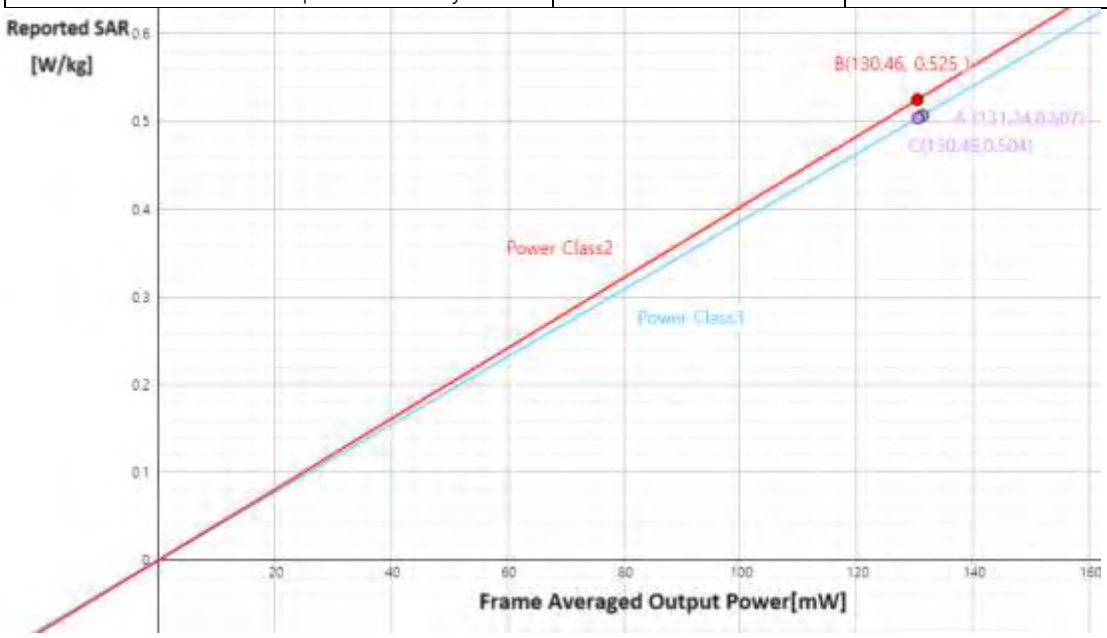
Ant I Open Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	19.5	21.1
Measured Output Power[dBm]	18.88	20.64
Reported SAR[W/kg]	0.231	0.222
Measured Power[mW]	77.27	115.88
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	48.91	50.18
% deviation from expected linearity		-6.33



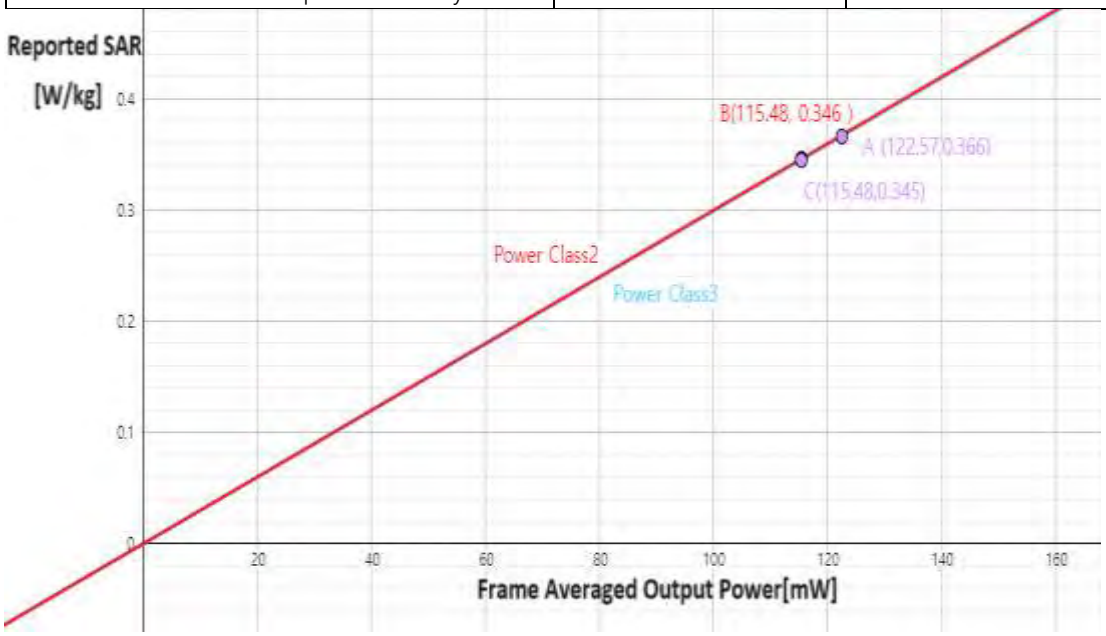
Ant I Open Hotspot ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	19.5	21.1
Measured Output Power[dBm]	18.83	20.54
Reported SAR[W/kg]	0.237	0.231
Measured Power[mW]	76.38	113.24
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	48.35	49.03
% deviation from expected linearity		-3.88



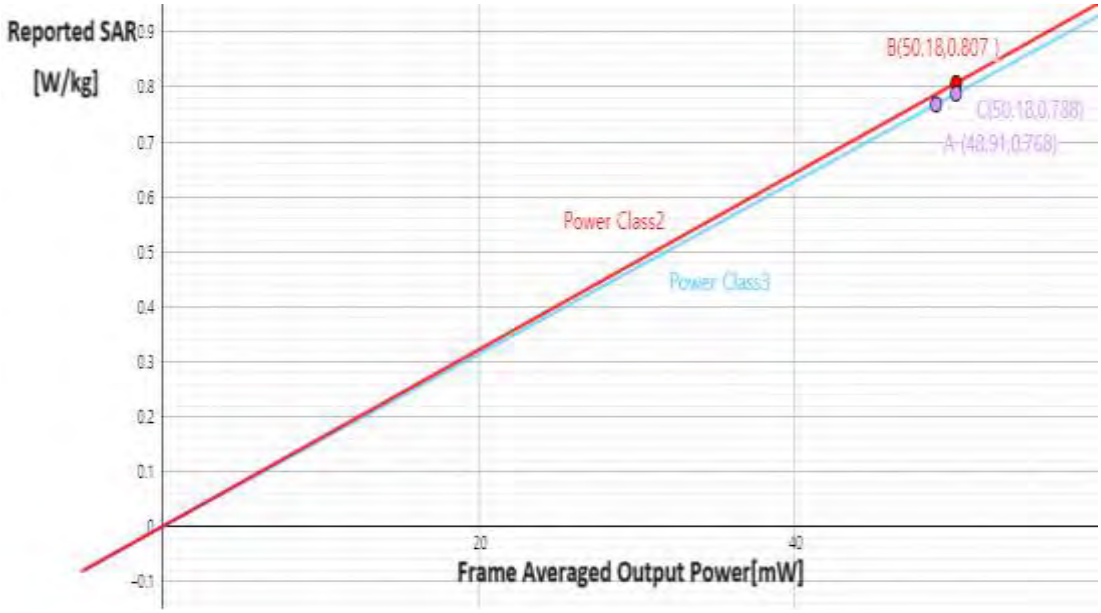
Ant I Open BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	23.5	25.1
Measured Output Power[dBm]	23.17	24.79
Reported SAR[W/kg]	0.507	0.525
Measured Power[mW]	207.49	301.3
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	131.34	130.46
% deviation from expected linearity		4.25



Ant I Open BodyWorn ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	23.5	25.1
Measured Output Power[dBm]	22.87	24.26
Reported SAR[W/kg]	0.366	0.346
Measured Power[mW]	193.64	266.69
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	122.57	115.48
% deviation from expected linearity		0.34

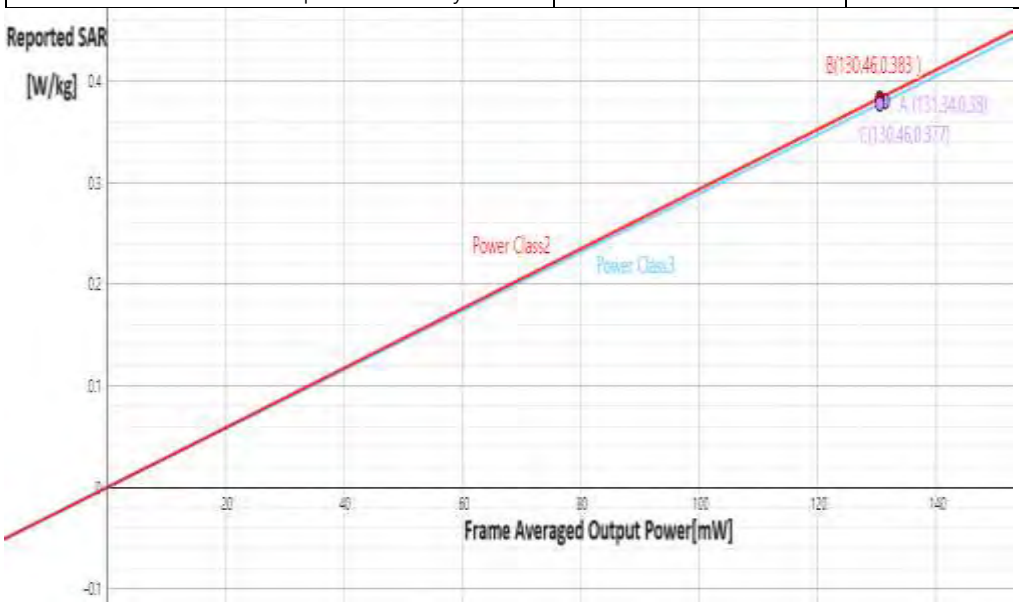


Ant I Close Hotspot		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	19.5	21.1
Measured Output Power[dBm]	18.88	20.64
Reported SAR[W/kg]	0.768	0.807
Measured Power[mW]	77.27	115.88
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	48.91	50.18
% deviation from expected linearity		2.42

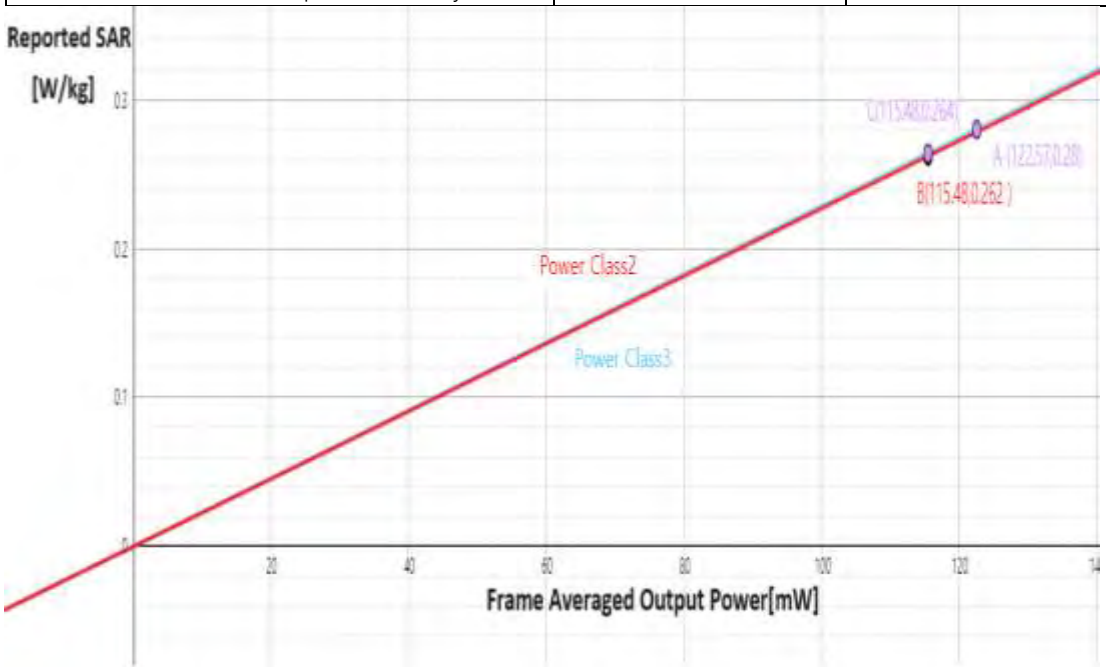


Ant I Close Hotspot ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	19.5	21.1
Measured Output Power[dBm]	18.83	20.54
Reported SAR[W/kg]	0.759	0.841
Measured Power[mW]	76.38	113.24
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	48.35	49.03
% deviation from expected linearity		9.27

Ant I Close BodyWorn		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	23.5	25.1
Measured Output Power[dBm]	23.17	24.79
Reported SAR[W/kg]	0.38	0.383
Measured Power[mW]	207.49	301.3
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	131.34	130.46
% deviation from expected linearity		1.47



Ant I Close BodyWorn ULCA		
LTE TDD Band 41 Linearity Data Table		
	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	23.5	25.1
Measured Output Power[dBm]	22.87	24.26
Reported SAR[W/kg]	0.28	0.262
Measured Power[mW]	193.64	266.69
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	122.57	115.48
% deviation from expected linearity		-0.68



17. Measurement Uncertainty

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

18. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5SD0A1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/56W9A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/ 5K3RA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60	F10/5FN3A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/55B8A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5SD0A1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/56W9A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F11/ 5K3RA1/ A/ 01	N/A	N/A	N/A
Staubli	TX60 Lspeag	F10/5FN3A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/55B8A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	001729	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0602	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1203 0309	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142602	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	011578	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1338 1332	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0306	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
TESTO	608-H1/Thermometer	83348029	03/20/2024	Annual	03/20/2025
TESTO	608-H1/Thermometer	83406789	06/29/2023	Annual	06/29/2024
TESTO	175-H1/Thermometer	40331936309	12/26/2023	Annual	12/26/2024
TESTO	608-H1/Thermometer	2183499992	11/29/2023	Annual	11/29/2024
TESTO	175-H1/Thermometer	40331922309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40332651310	12/26/2023	Annual	12/26/2024
TESTO	608-H1/Thermometer	83348021	03/20/2024	Annual	03/20/2025
TESTO	175-H1/Thermometer	40331915309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331939309	12/26/2023	Annual	12/26/2024
SPEAG	DAE4	648	04/25/2023	Annual	04/25/2024
SPEAG	DAE4	1686	05/23/2023	Annual	05/23/2024
SPEAG	DAE4	652	01/17/2024	Annual	01/17/2025
SPEAG	DAE4	1720	04/24/2023	Annual	04/24/2024
SPEAG	DAE4	1225	02/15/2024	Annual	02/15/2025
SPEAG	DAE4	1629	08/21/2023	Annual	08/21/2024
SPEAG	DAE4	780	07/04/2023	Annual	07/04/2024
SPEAG	DAE4	1417	02/16/2024	Annual	02/16/2025
SPEAG	DAE4	1687	07/18/2023	Annual	07/18/2024
SPEAG	DAE4	446	11/16/2023	Annual	11/16/2024
SPEAG	DAE4	869	03/15/2024	Annual	03/15/2025

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	E-Field Probe EX3DV4	7681	11/27/2023	Annual	11/27/2024
SPEAG	E-Field Probe EX3DV4	7702	01/22/2024	Annual	01/22/2025
SPEAG	E-Field Probe EX3DV4	7680	05/24/2023	Annual	05/24/2024
SPEAG	E-Field Probe EX3DV4	7654	05/24/2023	Annual	05/24/2024
SPEAG	E-Field Probe EX3DV4	7622	11/24/2023	Annual	11/24/2024
SPEAG	E-Field Probe EX3DV4	7370	08/24/2023	Annual	08/24/2024
SPEAG	E-Field Probe EX3DV4	7679	08/24/2023	Annual	08/24/2024
SPEAG	E-Field Probe EX3DV4	3903	07/19/2023	Annual	07/19/2024
SPEAG	E-Field Probe EX3DV4	3797	01/23/2024	Annual	01/23/2025
SPEAG	E-Field Probe EX3DV4	7751	10/06/2023	Annual	10/06/2024
SPEAG	E-Field Probe ES3DV3	3076	07/18/2023	Annual	07/18/2024
SPEAG	CLA13	1016	09/21/2023	Annual	09/21/2024
SPEAG	Dipole D750V3	1014	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D835V2	4d165	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D1640V2	345	07/12/2023	Annual	07/12/2024
SPEAG	Dipole D1800V2	2d015	05/17/2023	Annual	05/17/2024
SPEAG	Dipole D1900V2	5d032	01/18/2024	Annual	01/23/2025
SPEAG	Dipole D2300V2	1010	07/19/2023	Annual	07/19/2024
SPEAG	Dipole D2450V2	1049	04/25/2023	Annual	04/25/2024
SPEAG	Dipole D2450V2	743	03/14/2024	Annual	03/14/2025
SPEAG	Dipole D2600V2	1106	05/24/2023	Annual	05/24/2024
SPEAG	Dipole D3500V2	1132	01/23/2024	Annual	01/23/2025
SPEAG	Dipole D3700V2	1066	11/20/2023	Annual	11/20/2024
SPEAG	Dipole D3900V2	1019	05/19/2023	Annual	05/19/2024
SPEAG	Dipole D5GHzV2	1317	05/17/2023	Annual	05/17/2024
Agilent	Power Meter E4419B	MY41291386	09/21/2023	Annual	09/21/2024
Agilent	Power Meter N1911A	MY45101406	05/26/2023	Annual	05/26/2024
Agilent	Power Sensor 8481A	SG1091286	09/21/2023	Annual	09/21/2024
H.P	Power Sensor 8481A	MY41090675	09/21/2023	Annual	09/21/2024
Agilent	Wideband Power Sensor N1921A	MY55220026	07/28/2023	Annual	07/28/2024
Agilent	11636B/Power Divider	58698	01/15/2024	Annual	01/15/2025
SPEAG	DAKS 3.5	1038	01/22/2024	Annual	01/22/2025
SPEAG	Vector Reflectometer	050813	04/26/2023	Annual	04/26/2024
SPEAG	MXA Signal Analyzer	MY49100108	01/09/2024	Annual	01/09/2025
H.P	Network Analyzer /8753ES	JP39240221	12/26/2023	Annual	12/26/2024
Protek	NETWORK ANALYZER	X11-15305	02/15/2024	Annual	02/15/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/21/2023	Annual	09/21/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/27/2023	Annual	07/27/2024
R&S	Wireless Communication Test Set CMW500	115733	03/19/2024	Annual	03/19/2025
R&S	Wireless Communication Test Set CMW500	139333	12/13/2023	Annual	12/13/2024
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/19/2024	Annual	03/19/2025
Keysight	PSG Vector Signal Generator	MY50350097	03/05/2024	Annual	03/05/2025
EMPOWER	RF Power Amplifier	1084	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1041D/C0508	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1011	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-15N	10453	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-30N	-	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-60N	32011	09/21/2023	Annual	09/21/2024
Agilent	Attenuator (3dB) 8693B	MY39260298	08/22/2023	Annual	08/22/2024
HP	Attenuator (3dB) 33340A	02427	08/22/2023	Annual	08/22/2024
HP	Attenuator (20dB) 8493C	09271	08/22/2023	Annual	08/22/2024
Agilent	Directional Bridge 86205A	3140A04581	04/25/2023	Annual	04/25/2024

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

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

19. Conclusion

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

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

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

20. References

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Aug. 1996.

[2] ANSI/IEEE C95.1 - 2005 , American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 300 kHz to 300 GHz, New York: IEEE, Sept. 1992

[3] ANSI/IEEE C 95.1 - 2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz, New York: IEEE, 2006

[4 ANSI/IEEE C95.3 - 2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: December 2002.

[5] IEEE Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice or Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices

[6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.

[7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.

[8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 120-124.

[9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.

[10] Schmid& Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.

[11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Head Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.

[12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300 MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.

[13] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectro magnetics, Canada: 1987, pp. 29-36.

[14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.

[15] W. Gander, Computer mathematick, Birkhaeuser, Basel, 1992.

[16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recepies in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.

[17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

[18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10 kHz-300 GHz, Jan. 1995.

[19] Prof. Dr. Niels Kuster, ETH, EidgenØssischeTechnischeHoschschuleZòrich, Dosimetric Evaluation of the Cellular Phone.

[20] IEC 62209-1, Human exposure to radio frequency fields from hand-held and body-mounted wireless

communication devices – Human models, instrumentation and procedures – Part 1:Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 ㎒ to 3 ㎓), July. 2016..

[21] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 ㎒ to 6 ㎓) Mar. 2010.

[22] Industry Canada RSS-102 Radio Frequency Exposure Compliance of Radio Communication Apparatus (All Frequency Band) Issue 5, March 2015.

[23] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency rage from 3 kHz – 300 ㎓, 2009

[24] FCC SAR Test procedures for 2G-3G Devices, Mobile Hotspot and UMPC Device KDB 941225 D01.

[25] SAR Measurement Guidance for IEEE 802.11 transmitters, KDB 248227 D01v02r02

[26] SAR Evaluation of Handsets with Multiple Transmitters and Antennas KDB 648474 D03, D04.

[27] SAR Evaluation for Laptop, Notebook, Netbook and Tablet computers KDB 616217 D04.

[28] SAR Measurement and Reporting Requirements for 100 ㎒ – 6 ㎓, KDB 865664 D01, D02.

[29] FCC 447498 D01 General RF Exposure Guidance v06

Appendix A. DUT Ant. Information & SETUP PHOTO

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

Report No.
HCT-SR-2404-FC004-P