

➤ LTE Band 25

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26047	26365	26683		26047	26365	26683		26047	26365	26683	
25 / 1.4M	1	0	23.47	23.61	23.64	0	22.47	22.56	22.60	1	21.59	21.67	21.85	2
	1	2	23.44	23.61	23.61	0	22.46	22.52	22.52	1	21.54	21.69	21.69	2
	1	5	23.44	23.67	23.66	0	22.49	22.45	22.60	1	21.65	21.64	21.71	2
	3	0	23.42	23.62	23.50	1	22.48	22.87	22.44	2	21.68	21.93	21.64	2
	3	1	23.68	23.66	23.56	1	22.50	22.91	22.49	2	21.58	21.97	21.62	2
	3	3	23.43	23.56	23.49	1	22.62	23.02	22.40	2	21.74	22.19	21.65	2
	6	0	22.48	22.56	22.61	1	21.21	21.47	21.70	2	20.33	20.60	20.92	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26055	26365	26675		26055	26365	26675		26055	26365	26675	
25 / 3M	1	0	23.26	23.43	23.51	0	22.74	22.53	22.69	1	21.85	21.64	21.92	2
	1	7	23.38	23.46	23.56	0	22.90	22.52	22.56	1	21.98	21.68	21.67	2
	1	14	23.38	23.46	23.51	0	22.91	22.49	22.58	1	21.99	21.65	21.64	2
	8	0	22.60	22.78	22.48	1	21.65	21.72	21.54	2	20.78	20.96	20.68	3
	8	3	22.73	22.48	22.34	1	21.70	21.48	21.47	2	20.81	20.70	20.63	3
	8	7	22.63	22.41	22.30	1	21.75	21.56	21.42	2	20.82	20.63	20.63	3
	15	0	22.72	22.69	22.45	1	21.65	21.68	21.57	2	20.79	20.88	20.77	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26065	26365	26665		26065	26365	26665		26065	26365	26665	
25 / 5M	1	0	23.31	23.48	23.52	0	22.28	22.49	22.53	1	21.51	21.64	21.59	2
	1	12	23.26	23.45	23.57	0	22.23	22.46	22.43	1	21.33	21.63	21.54	2
	1	24	23.36	23.56	23.56	0	22.31	22.50	22.48	1	21.52	21.63	21.72	2
	12	0	22.53	22.53	22.60	1	21.51	21.55	21.75	2	20.66	20.78	20.89	3
	12	6	22.44	22.61	22.48	1	21.38	21.44	21.70	2	20.53	20.51	20.82	3
	12	13	22.42	22.61	22.48	1	21.48	21.53	21.60	2	20.57	20.65	20.72	3
	25	0	22.45	22.53	22.49	1	21.55	21.71	21.61	2	20.65	20.80	20.75	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26090	26365	26640		26090	26365	26640		26090	26365	26640	
25 / 10M	1	0	23.49	23.52	23.47	0	22.58	23.19	22.69	1	21.64	22.26	21.94	2
	1	24	23.55	23.48	23.67	0	22.55	23.17	22.56	1	21.66	22.29	21.66	2
	1	49	23.59	23.60	23.58	0	22.61	23.26	22.51	1	21.77	22.40	21.74	2
	25	0	22.52	22.74	22.59	1	21.73	21.81	21.74	2	20.87	21.03	20.81	3
	25	12	22.48	22.56	22.39	1	21.73	21.67	21.52	2	20.93	20.80	20.74	3
	25	25	22.48	22.65	22.42	1	21.61	21.58	21.61	2	20.83	20.79	20.71	3
	50	0	22.56	22.73	22.49	1	21.70	21.78	21.68	2	20.91	20.86	20.81	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26115	26365	26615		26115	26365	26615		26115	26365	26615	
25 / 15M	1	0	23.29	23.50	23.55	0	22.82	23.11	22.64	1	21.98	22.18	21.81	2
	1	37	23.41	23.48	23.60	0	22.90	23.23	22.54	1	22.04	22.44	21.68	2
	1	74	23.40	23.47	23.58	0	22.98	23.15	22.49	1	22.04	22.34	21.69	2
	36	0	22.59	22.82	22.60	1	21.60	21.68	21.61	2	20.70	20.86	20.79	3
	36	19	22.64	22.69	22.63	1	21.57	21.64	21.67	2	20.70	20.82	20.77	3
	36	39	22.61	22.58	22.57	1	21.65	21.58	21.65	2	20.84	20.79	20.77	3
	75	0	22.66	22.62	22.61	1	21.58	21.63	21.64	2	20.82	20.83	20.70	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26140	26365	26590		26140	26365	26590		26140	26365	26590	
25 / 20M	1	0	23.39	23.57	23.57	0	23.06	22.54	22.70	1	22.16	21.62	21.92	2
	1	50	23.32	23.55	23.66	0	23.08	22.64	22.68	1	22.23	21.76	21.73	2
	1	99	23.42	23.57	23.71	0	23.05	22.58	22.66	1	22.22	21.82	21.77	2
	50	0	22.51	22.54	22.62	1	21.59	21.59	21.56	2	20.78	20.80	20.66	3
	50	25	22.34	22.53	22.54	1	21.70	21.61	21.64	2	20.93	20.79	20.70	3
	50	50	22.41	22.58	22.62	1	21.61	21.56	21.66	2	20.81	20.64	20.88	3
	100	0	22.44	22.58	22.51	1	21.54	21.42	21.78	2	20.64	20.58	20.84	3

➤ LTE Band 26

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26697	26865	27033		26697	26865	27033		26697	26865	27033	
26 / 1.4M	1	0	23.64	23.77	23.81	0	22.50	22.81	22.88	1	21.66	21.96	22.00	2
	1	2	23.59	23.74	23.83	0	22.74	22.75	22.83	1	21.97	21.81	22.00	2
	1	5	23.49	23.80	23.90	0	22.47	22.76	22.83	1	21.70	22.01	22.03	2
	3	0	23.59	23.74	23.90	0	22.70	22.80	22.80	1	21.94	21.95	21.86	2
	3	1	23.47	23.84	23.82	0	22.58	22.83	22.90	1	21.77	22.03	22.14	2
	3	3	23.74	23.83	23.84	0	22.57	22.77	22.87	1	21.73	21.99	21.93	2
	6	0	23.74	23.83	23.82	1	22.51	22.86	22.92	2	21.73	21.99	22.04	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26705	26865	27025		26705	26865	27025		26705	26865	27025	
26 / 3M	1	0	23.55	23.78	23.77	0	22.45	22.68	22.77	1	21.67	21.85	21.98	2
	1	7	23.56	23.71	23.67	0	22.52	22.63	22.82	1	21.65	21.80	22.02	2
	1	14	23.60	23.71	23.68	0	22.51	22.71	22.72	1	21.61	21.90	21.84	2
	8	0	23.52	23.62	23.74	1	22.53	22.66	22.77	2	21.70	21.86	21.88	3
	8	3	23.54	23.69	23.71	1	22.62	22.80	22.74	2	21.84	22.03	21.91	3
	8	7	23.55	23.80	23.76	1	22.53	22.73	22.68	2	21.72	21.92	21.78	3
	15	0	23.60	23.79	23.76	1	22.57	22.71	22.73	2	21.80	21.93	21.93	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26715	26865	27015		26715	26865	27015		26715	26865	27015	
26 / 5M	1	0	23.53	23.66	23.68	0	22.51	22.64	22.73	1	21.59	21.74	21.92	2
	1	12	23.49	23.70	23.71	0	22.56	22.69	22.75	1	21.78	21.87	21.84	2
	1	24	23.50	23.65	23.76	0	22.55	22.66	22.66	1	21.73	21.84	21.90	2
	12	0	23.60	23.74	23.75	1	22.50	22.70	22.66	2	21.74	21.93	21.77	3
	12	6	23.53	23.70	23.78	1	22.52	22.71	22.68	2	21.58	21.78	21.78	3
	12	13	23.52	23.73	23.73	1	22.59	22.70	22.68	2	21.70	21.77	21.74	3
	25	0	23.51	23.71	23.67	1	22.52	22.67	22.74	2	21.63	21.78	21.86	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26740	26865	26990		26740	26865	26990		26740	26865	26990	
26 / 10M	1	0	23.64	23.77	23.70	0	22.49	22.76	22.81	1	21.72	21.85	22.02	2
	1	24	23.61	23.70	23.71	0	22.61	22.71	22.74	1	21.84	21.79	21.95	2
	1	49	23.47	23.70	23.70	0	22.38	22.75	22.78	1	21.58	21.92	21.96	2
	25	0	22.57	23.80	23.79	1	21.60	22.80	22.84	2	20.75	21.99	22.06	3
	25	12	22.58	23.77	23.82	1	21.65	22.75	22.81	2	20.83	22.00	22.05	3
	25	25	22.59	23.76	23.80	1	21.63	22.78	22.69	2	20.75	21.85	21.90	3
	50	0	22.55	23.77	23.82	1	21.55	22.70	22.79	2	20.73	21.87	22.02	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26765	26865	26965		26765	26865	26965		26765	26865	26965	
26 / 15M	1	0	23.68	23.69	23.87	0	22.95	22.58	22.79	1	22.14	21.71	22.04	2
	1	37	23.78	23.59	23.82	0	23.07	22.58	22.87	1	22.14	21.66	22.02	2
	1	74	23.68	23.73	23.90	0	22.93	22.66	22.90	1	22.12	21.90	22.03	2
	36	0	22.65	23.61	23.98	1	21.56	22.55	22.91	2	20.74	21.69	22.05	3
	36	19	22.61	23.65	23.82	1	21.57	22.65	22.96	2	20.71	21.77	22.20	3
	36	39	22.59	23.62	23.87	1	21.57	22.72	22.90	2	20.75	21.87	22.07	3
	75	0	22.58	23.55	23.82	1	21.58	22.59	22.81	2	20.70	21.68	21.99	3

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➤ LTE Band 30

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			27685	27710	27735		27685	27710	27735		27685	27710	27735	
30 / 5M	1	0	23.15	23.22	23.30	0	22.27	22.34	22.15	1	21.34	21.51	21.37	2
	1	12	23.30	23.26	23.23	0	22.26	22.26	22.22	1	21.40	21.44	21.28	2
	1	24	23.30	23.26	23.28	0	22.21	22.29	22.17	1	21.29	21.52	21.39	2
	12	0	22.30	22.25	22.46	1	21.20	21.45	21.30	2	20.33	20.66	20.52	3
	12	6	22.41	22.28	22.44	1	21.22	21.41	21.30	2	20.37	20.49	20.48	3
	12	13	22.39	22.29	22.45	1	21.38	21.38	21.33	2	20.47	20.44	20.43	3
	25	0	22.43	22.40	22.44	1	21.41	21.40	21.44	2	20.60	20.63	20.54	3

LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH		Mid CH		Mid CH	
			27710		27710		27710	
30 / 10M	1	0	23.43	0	22.50	1	21.74	2
	1	24	23.53	0	22.51	1	21.59	2
	1	49	23.50	0	22.45	1	21.58	2
	25	0	22.29	1	21.43	2	20.63	3
	25	12	22.35	1	21.52	2	20.62	3
	25	25	22.38	1	21.43	2	20.62	3
	50	0	22.38	1	21.39	2	20.56	3

➤ LTE Band 41

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39675	40620	41565		39675	40620	41565		39675	40620	41565	
41 / 5M	1	0	25.09	25.18	25.08	0	24.07	23.75	24.24	1	23.20	22.96	23.41	2
	1	12	25.13	25.20	25.04	0	24.21	23.76	24.23	1	23.39	22.95	23.44	2
	1	24	25.22	25.29	25.04	0	24.12	23.80	24.25	1	23.18	22.98	23.46	2
	12	0	24.25	24.25	24.14	1	23.12	23.22	23.19	2	22.34	22.39	22.32	3
	12	6	24.34	24.25	24.13	1	23.21	23.22	23.24	2	22.37	22.35	22.40	3
	12	13	24.24	24.26	24.13	1	23.22	23.31	23.17	2	22.43	22.44	22.33	3
	25	0	24.31	24.24	24.17	1	23.22	23.38	23.18	2	22.43	22.52	22.37	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39700	40620	41540		39700	40620	41540		39700	40620	41540	
41 / 10M	1	0	25.15	25.18	24.98	0	24.29	23.75	23.98	1	23.53	22.91	23.08	2
	1	24	25.27	25.18	25.06	0	24.30	23.70	23.94	1	23.40	22.76	23.04	2
	1	49	25.20	25.17	24.96	0	24.38	23.69	24.03	1	23.45	22.76	23.15	2
	25	0	24.35	24.28	24.18	1	23.45	23.38	23.13	2	22.68	22.55	22.37	3
	25	12	24.24	24.27	24.11	1	23.22	23.27	23.22	2	22.41	22.52	22.28	3
	25	25	24.24	24.27	24.11	1	23.29	23.36	23.13	2	22.52	22.51	22.26	3
	50	0	24.26	24.25	24.22	1	23.26	23.23	23.18	2	22.43	22.37	22.34	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39725	40620	41515		39725	40620	41515		39725	40620	41515	
41 / 15M	1	0	25.04	25.38	25.00	0	23.83	24.16	24.22	1	23.08	23.38	23.42	2
	1	37	25.18	25.27	24.99	0	23.96	24.06	24.24	1	23.07	23.11	23.38	2
	1	74	25.19	25.37	24.99	0	23.87	24.14	24.21	1	23.12	23.36	23.27	2
	36	0	24.31	24.32	24.29	1	23.25	23.20	23.26	2	22.31	22.35	22.48	3
	36	19	24.30	24.29	24.23	1	23.25	23.27	23.21	2	22.41	22.33	22.28	3
	36	39	24.33	24.29	24.21	1	23.28	23.23	23.15	2	22.36	22.37	22.30	3
	75	0	24.34	24.32	24.29	1	23.32	23.22	23.15	2	22.47	22.28	22.31	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			39750	40620	41490		39750	40620	41490		39750	40620	41490	
41 / 20M	1	0	25.22	25.51	25.23	0	23.87	24.18	24.19	1	23.01	23.35	23.42	2
	1	50	25.20	25.36	25.17	0	23.98	24.12	24.19	1	23.19	23.23	23.39	2
	1	99	25.22	25.36	25.29	0	23.97	24.13	24.32	1	23.11	23.38	23.43	2
	50	0	24.34	24.41	24.17	1	23.43	23.36	23.24	2	22.62	22.56	22.44	3
	50	25	24.38	24.30	24.21	1	23.43	23.44	23.26	2	22.55	22.65	22.50	3
	50	50	24.35	24.29	24.21	1	23.26	23.37	23.20	2	22.51	22.62	22.30	3
	100	0	24.27	24.32	24.22	1	23.27	23.29	23.13	2	22.41	22.38	22.21	3

➤ LTE Band 66

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH	CH	CH		CH	CH	CH		CH	CH	CH	
			131979	132322	132665		131979	132322	132665		131979	132322	132665	
66 / 1.4M	1	0	1710.7 MHz	1745 MHz	1779.3 MHz	0	23.04	22.46	22.59	1	22.20	21.66	21.84	2
	1	2	23.38	23.47	23.39	0	22.93	22.57	22.42	1	22.13	21.68	21.61	2
	1	5	23.35	23.52	23.50	0	22.88	22.54	22.43	1	22.03	21.79	21.63	2
	3	0	22.59	22.61	22.61	1	21.54	21.64	21.50	2	20.61	20.88	20.59	2
	3	1	22.69	22.64	22.53	1	21.63	21.66	21.41	2	20.72	20.86	20.50	2
	3	3	22.68	22.75	22.47	1	21.67	21.61	21.36	2	20.75	20.76	20.56	2
	6	0	22.63	22.62	22.52	1	21.64	21.65	21.55	2	20.80	20.81	20.72	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH	CH	CH		CH	CH	CH		CH	CH	CH	
			131987	132322	132657		131987	132322	132657		131987	132322	132657	
66 / 3M	1	0	1711.5 MHz	1745 MHz	1778.5 MHz	0	22.77	23.24	22.53	1	22.00	22.33	21.75	2
	1	7	23.67	23.60	23.54	0	22.75	23.23	22.60	1	21.97	22.31	21.77	2
	1	14	23.66	23.52	23.67	0	22.74	23.24	22.51	1	21.96	22.36	21.69	2
	8	0	22.59	22.58	22.55	1	21.61	21.87	21.48	2	20.74	20.97	20.55	3
	8	3	22.54	22.55	22.56	1	21.66	21.79	21.50	2	20.88	20.87	20.56	3
	8	7	22.55	22.63	22.53	1	21.57	21.84	21.54	2	20.73	21.06	20.79	3
	15	0	22.68	22.68	22.55	1	21.79	21.74	21.42	2	20.86	20.89	20.54	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 131997	CH 132322	CH 132647		CH 131997	CH 132322	CH 132647		CH 131997	CH 132322	CH 132647	
			1712.5 MHz	1745 MHz	1777.5 MHz		1712.5 MHz	1745 MHz	1777.5 MHz		1712.5 MHz	1745 MHz	1777.5 MHz	
66 / 5M	1	0	23.48	23.44	23.40	0	22.40	22.56	22.45	1	21.63	21.68	21.65	2
	1	12	23.41	23.48	23.46	0	22.36	22.54	22.38	1	21.58	21.68	21.50	2
	1	24	23.54	23.50	23.37	0	22.33	22.49	22.41	1	21.39	21.64	21.48	2
	12	0	22.57	22.61	22.43	1	21.60	21.55	21.55	2	20.74	20.71	20.75	3
	12	6	22.73	22.71	22.50	1	21.67	21.62	21.49	2	20.82	20.77	20.65	3
	12	13	22.72	22.67	22.46	1	21.56	21.56	21.58	2	20.72	20.67	20.65	3
	25	0	22.62	22.64	22.48	1	21.69	21.66	21.54	2	20.75	20.76	20.66	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132022	CH 132322	CH 132622		CH 132022	CH 132322	CH 132622		CH 132022	CH 132322	CH 132622	
			1715 MHz	1745 MHz	1775 MHz		1715 MHz	1745 MHz	1775 MHz		1715 MHz	1745 MHz	1775 MHz	
66 / 10M	1	0	23.65	23.48	23.55	0	22.63	23.19	22.53	1	21.79	22.38	21.61	2
	1	24	23.59	23.51	23.48	0	22.69	23.17	22.43	1	21.80	22.35	21.63	2
	1	49	23.65	23.56	23.50	0	22.74	23.25	22.49	1	21.86	22.45	21.64	2
	25	0	22.59	22.56	22.60	1	21.74	21.69	21.61	2	20.80	20.83	20.78	3
	25	12	22.58	22.67	22.50	1	21.75	21.77	21.52	2	20.84	20.90	20.65	3
	25	25	22.67	22.64	22.41	1	21.74	21.79	21.47	2	20.94	20.97	20.68	3
	50	0	22.65	22.72	22.46	1	21.67	21.79	21.58	2	20.85	20.99	20.71	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132047	CH 132322	CH 132597		CH 132047	CH 132322	CH 132597		CH 132047	CH 132322	CH 132597	
			1717.5 MHz	1745 MHz	1772.5 MHz		1717.5 MHz	1745 MHz	1772.5 MHz		1717.5 MHz	1745 MHz	1772.5 MHz	
66 / 15M	1	0	23.45	23.45	23.48	0	23.00	23.29	22.54	1	22.19	22.46	21.62	2
	1	37	23.47	23.50	23.57	0	23.00	23.15	22.42	1	22.18	22.39	21.48	2
	1	74	23.50	23.49	23.42	0	23.05	23.14	22.51	1	22.13	22.25	21.74	2
	36	0	22.59	22.62	22.57	1	21.47	21.67	21.58	2	20.53	20.85	20.78	3
	36	19	22.66	22.68	22.68	1	21.62	21.70	21.63	2	20.67	20.78	20.71	3
	36	39	22.61	22.70	22.61	1	21.58	21.70	21.49	2	20.67	20.76	20.65	3
	75	0	22.65	22.75	22.55	1	21.68	21.58	21.65	2	20.78	20.77	20.81	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 132072	CH 132322	CH 132572		CH 132072	CH 132322	CH 132572		CH 132072	CH 132322	CH 132572	
			1720 MHz	1745 MHz	1770 MHz		1720 MHz	1745 MHz	1770 MHz		1720 MHz	1745 MHz	1770 MHz	
66 / 20M	1	0	23.57	23.73	23.58	0	22.61	22.59	22.42	1	21.84	21.81	21.66	2
	1	50	23.64	23.60	23.59	0	22.75	22.60	22.52	1	21.90	21.67	21.71	2
	1	99	23.58	23.63	23.55	0	22.67	22.56	22.53	1	21.84	21.80	21.76	2
	50	0	23.70	23.80	23.57	1	22.90	23.04	22.37	2	22.11	22.15	21.59	3
	50	25	23.81	23.70	23.53	1	22.72	23.05	22.43	2	21.84	22.26	21.67	3
	50	50	23.76	23.66	23.52	1	22.68	22.91	22.38	2	21.77	22.01	21.46	3
	100	0	22.55	22.70	22.61	1	21.38	21.75	21.57	2	20.62	20.96	20.67	3

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➤ LTE Band 71

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133147	CH 133297	CH 133447		CH 133147	CH 133297	CH 133447		CH 133147	CH 133297	CH 133447	
			665.5 MHz	680.5 MHz	695.5 MHz		665.5 MHz	680.5 MHz	695.5 MHz		665.5 MHz	680.5 MHz	695.5 MHz	
71 / 5M	1	0	24.25	24.16	24.22	0	22.97	23.18	23.07	1	22.09	22.31	22.15	2
	1	12	24.23	24.20	24.24	0	23.14	23.21	23.19	1	22.37	22.45	22.43	2
	1	24	24.21	24.11	24.22	0	23.10	23.18	23.12	1	22.34	22.25	22.18	2
	12	0	23.08	23.29	23.34	1	21.98	22.37	22.15	2	21.07	21.58	21.36	3
	12	6	23.32	23.28	23.36	1	22.28	22.40	22.25	2	21.47	21.61	21.31	3
	12	13	23.41	23.29	23.51	1	22.34	22.41	22.33	2	21.54	21.57	21.56	3
	25	0	23.21	23.36	23.46	1	22.39	22.29	22.49	2	21.64	21.48	21.65	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133172	CH 133297	CH 133422		CH 133172	CH 133297	CH 133422		CH 133172	CH 133297	CH 133422	
			668 MHz	680.5 MHz	693 MHz		668 MHz	680.5 MHz	693 MHz		668 MHz	680.5 MHz	693 MHz	
71 / 10M	1	0	24.19	24.31	24.15	0	23.16	23.21	23.66	1	22.22	22.39	22.89	2
	1	24	24.19	24.39	24.27	0	23.25	23.33	23.75	1	22.35	22.53	22.84	2
	1	49	24.10	24.43	24.34	0	23.34	23.36	23.76	1	22.40	22.49	22.88	2
	25	0	23.21	23.22	23.19	1	22.14	22.25	22.27	2	21.36	21.31	21.34	3
	25	12	23.43	23.27	23.33	1	22.44	22.20	22.24	2	21.64	21.30	21.44	3
	25	25	23.42	23.27	23.33	1	22.44	22.19	22.28	2	21.54	21.34	21.35	3
	50	0	23.30	23.21	23.21	1	22.36	22.32	22.28	2	21.46	21.52	21.50	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133197	CH 133297	CH 133397		CH 133197	CH 133297	CH 133397		CH 133197	CH 133297	CH 133397	
			670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz	
71 / 15M	1	0	24.23	24.26	24.17	0	23.74	23.16	23.55	1	22.88	22.24	22.73	2
	1	37	24.14	24.36	24.30	0	23.94	23.33	23.79	1	23.04	22.57	22.87	2
	1	74	24.22	24.35	24.30	0	23.80	23.26	23.79	1	23.00	22.48	22.99	2
	36	0	23.21	23.34	23.43	1	22.19	22.34	22.32	2	21.35	21.51	21.54	3
	36	19	23.41	23.44	23.45	1	22.30	22.34	22.36	2	21.53	21.47	21.53	3
	36	39	23.32	23.36	23.46	1	22.24	22.44	22.37	2	21.30	21.58	21.47	3
	75	0	23.34	23.43	23.48	1	22.33	22.39	22.38	2	21.52	21.49	21.43	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			CH 133222	CH 133322	CH 133372		CH 133222	CH 133322	CH 133372		CH 133222	CH 133322	CH 133372	
			673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz	
71 / 20M	1	0	24.24	24.32	24.37	0	23.72	23.28	23.36	1	22.89	22.39	22.46	2
	1	50	24.15	24.28	24.55	0	23.81	23.36	23.51	1	22.92	22.54	22.59	2
	1	99	24.25	24.32	24.53	0	23.87	23.30	23.51	1	22.94	22.45	22.72	2
	50	0	23.07	23.28	23.59	1	22.13	22.24	22.62	2	21.28	21.34	21.76	3
	50	25	23.34	23.37	23.37	1	22.34	22.35	22.52	2	21.48	21.41	21.61	3
	50	50	23.27	23.45	23.36	1	22.29	22.44	22.55	2	21.50	21.68	21.77	3
	100	0	23.14	23.31	23.49	1	22.28	22.35	22.51	2	21.46	21.48	21.68	3

➤ DL CA

CA Config.	PCC						SCC 1			SCC 2			Tune Up	DL CA Power
	Band	Mode	Ch.	Freq.	RB Size	RB Offset	Band	BW	DL Freq.	Band	BW	DL Freq.		
2A+5A	2	QPSK20M	19100	1900	50	24	5	10	881.7	/	/	/	24.0	23.58
4A+5A	4	QPSK20M	20175	1732.5	50	50	5	10	881.7	/	/	/	24.0	23.74
5A+30A	5	QPSK10M	20450	829	25	25	30	10	2355.0	/	/	/	24.5	24.24
5A+66A	5	QPSK10M	20450	829	25	25	66	20	2145.2	/	/	/	25.0	24.35
25A+26A	25	QPSK20M	26590	1905.0	1	99	26	15	876.7	/	/	/	24.0	23.64

Note:

The PCC Tx power is measured with SCC downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active, uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.

4.3.3. Conducted Power of WLAN

The measuring conducted average power is shown as below.

Band	Mode	Channel	Frequency (MHz)	Average Power (dBm)
2.4GHz	802.11b	1	2412	17.11
		6	2437	17.54
		11	2462	16.86
	802.11g	1	2412	14.84
		6	2437	14.91
		11	2462	14.67
	802.11n-HT20	1	2412	14.78
		6	2437	14.88
		11	2462	14.25
	802.11n-HT40	3	2422	15.24
		6	2437	15.23
		9	2452	14.96

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11a	U-NII-1	36	5180	13.33
		44	5220	13.29
		48	5240	13.56
	U-NII-2A	52	5260	13.51
		60	5300	13.64
		64	5320	13.58
	U-NII-3	149	5745	13.81
		157	5785	13.85
		165	5825	13.90

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11n-HT20	U-NII-1	36	5180	12.63
		44	5220	12.78
		48	5240	12.96
	U-NII-2A	52	5260	13.35
		60	5300	13.48
		64	5320	13.44
	U-NII-3	149	5745	13.64
		157	5785	13.22
		165	5825	13.62

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11n-HT40	U-NII-1	38	5190	11.72
		46	5230	12.33
	U-NII-2A	54	5270	12.89
		62	5310	12.35
	U-NII-3	151	5755	12.46
		159	5795	12.52

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11ac-VHT20	U-NII-1	36	5180	12.19
		44	5220	11.95
		48	5240	12.39
	U-NII-2A	52	5260	12.56
		60	5300	12.63
		64	5320	12.53
	U-NII-3	149	5745	12.71
		157	5785	12.73
		165	5825	12.80

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11ac-VHT40	U-NII-1	38	5190	12.21
		46	5230	11.93
	U-NII-2A	54	5270	12.33
		62	5310	12.38
	U-NII-3	151	5755	12.46
		159	5795	12.50

Mode	Band	Channel	Frequency (MHz)	Average Power (dBm)
802.11ac-VHT80	U-NII-1	42	5210	12.12
	U-NII-2A	58	5290	11.85
	U-NII-3	155	5775	12.17

4.3.4. Conducted Power of BT

Mode	Modulation	Channel	Frequency (MHz)	Average Power (dBm)
BR + EDR	GFSK	0	2402	10.53
		39	2441	9.09
		78	2480	8.58
	$\pi/4$ -DQPSK	0	2402	8.69
		39	2441	7.34
		78	2480	6.80
	8-DPSK	0	2402	8.71
		39	2441	7.31
		78	2480	6.85

Mode	Modulation	Channel	Frequency (MHz)	Average Power (dBm)
LE	GFSK	0	2402	4.17
		19	2440	3.73
		39	2480	2.93

4.4. SAR TESTING RESULTS

4.4.1. SAR Test Reduction Considerations

KDB 447498 D01 General RF Exposure Guidance

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- a) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- b) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- c) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 941225 D01 3G SAR Procedures

a) GSM SAR Test Reduction

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

b) 3G SAR Test Reduction Procedure

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices

a) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, 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 of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

b) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

c) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

d) Others channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

KDB 941225 D06 Hot Spot SAR

Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

Antenna	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
WWAN Main Ant.	Yes	Yes	Yes	Yes	N/A	Yes
WLAN / BT	Yes	Yes	N/A	Yes	Yes	N/A

KDB 248227 D01 Wi-Fi SAR

- a) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- b) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- c) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- d) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

4.4.2. SAR Results for Head Exposure Condition

Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	WCDMA Band II	RMC12.2K	Right Cheek	9400	without	--	--	20.5	19.86	0.03	0.305	0.198	1.16	0.353	--
	WCDMA Band II	RMC12.2K	Right Tilted	9400	without	--	--	20.5	19.86	-0.10	0.213	0.129	1.16	0.247	--
	WCDMA Band II	RMC12.2K	Left Cheek	9400	without	--	--	20.5	19.86	0.15	0.319	0.201	1.16	0.370	--
	WCDMA Band II	RMC12.2K	Left Tilted	9400	without	--	--	20.5	19.86	-0.05	0.304	0.18	1.16	0.352	--
1	WCDMA Band II	RMC12.2K	Left Cheek	9400	with	--	--	20.5	19.86	0.04	0.357	0.22	1.16	0.414	--
	WCDMA Band IV	RMC12.2K	Right Cheek	1312	without	--	--	21.5	20.81	-0.05	0.314	0.167	1.17	0.368	--
	WCDMA Band IV	RMC12.2K	Right Tilted	1312	without	--	--	21.5	20.81	-0.11	0.165	0.107	1.17	0.193	--
2	WCDMA Band IV	RMC12.2K	Left Cheek	1312	without	--	--	21.5	20.81	0.02	0.379	0.244	1.17	0.444	--
	WCDMA Band IV	RMC12.2K	Left Tilted	1312	without	--	--	21.5	20.81	0.02	0.232	0.147	1.17	0.272	--
	WCDMA Band IV	RMC12.2K	Left Cheek	1312	with	--	--	21.5	20.81	0.08	0.348	0.225	1.17	0.408	--
3	WCDMA Band V	RMC12.2K	Right Cheek	4132	without	--	--	23.5	22.96	0.16	0.304	0.225	1.13	0.344	--
	WCDMA Band V	RMC12.2K	Right Tilted	4132	without	--	--	23.5	22.96	0.06	0.0405	0.031	1.13	0.046	--
	WCDMA Band V	RMC12.2K	Left Cheek	4132	without	--	--	23.5	22.96	0.03	0.277	0.207	1.13	0.314	--
	WCDMA Band V	RMC12.2K	Left Tilted	4132	without	--	--	23.5	22.96	-0.05	0.173	0.132	1.13	0.196	--
	WCDMA Band V	RMC12.2K	Left Cheek	4132	with	--	--	23.5	22.96	0.19	0.235	0.174	1.13	0.266	--
	LTE Band 2	QPSK20M	Right Cheek	19100	without	1	0	24.0	23.62	0.02	0.337	0.223	1.09	0.368	--
	LTE Band 2	QPSK20M	Right Tilted	19100	without	1	0	24.0	23.62	-0.01	0.24	0.139	1.09	0.262	--
	LTE Band 2	QPSK20M	Left Cheek	19100	without	1	0	24.0	23.62	0.07	0.54	0.339	1.09	0.589	--
	LTE Band 2	QPSK20M	Left Tilted	19100	without	1	0	24.0	23.62	-0.04	0.324	0.188	1.09	0.354	--
	LTE Band 2	QPSK20M	Right Cheek	19100	without	50	24	24.0	23.73	0.18	0.296	0.193	1.06	0.315	--
	LTE Band 2	QPSK20M	Right Tilted	19100	without	50	24	24.0	23.73	-0.09	0.201	0.117	1.06	0.214	--
	LTE Band 2	QPSK20M	Left Cheek	19100	without	50	24	24.0	23.73	0.01	0.409	0.252	1.06	0.435	--
	LTE Band 2	QPSK20M	Left Tilted	19100	without	50	24	24.0	23.73	-0.03	0.294	0.17	1.06	0.313	--
4	LTE Band 2	QPSK20M	Left Cheek	19100	with	1	0	24.0	23.62	0.03	0.581	0.362	1.09	0.634	--

Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
5	LTE Band 5	QPSK10M	Right Cheek	20450	without	1	49	25.0	24.38	0.13	0.346	0.257	1.15	0.399	--
	LTE Band 5	QPSK10M	Right Tilted	20450	without	1	49	25.0	24.38	-0.04	0.271	0.194	1.15	0.313	--
	LTE Band 5	QPSK10M	Left Cheek	20450	without	1	49	25.0	24.38	0.15	0.31	0.23	1.15	0.358	--
	LTE Band 5	QPSK10M	Left Tilted	20450	without	1	49	25.0	24.38	0.02	0.258	0.177	1.15	0.298	--
	LTE Band 5	QPSK10M	Right Cheek	20450	without	25	25	25.0	24.55	0.02	0.282	0.209	1.11	0.313	--
	LTE Band 5	QPSK10M	Right Tilted	20450	without	25	25	25.0	24.55	0.11	0.223	0.145	1.11	0.247	--
	LTE Band 5	QPSK10M	Left Cheek	20450	without	25	25	25.0	24.55	-0.03	0.254	0.188	1.11	0.282	--
	LTE Band 5	QPSK10M	Left Tilted	20450	without	25	25	25.0	24.55	0.00	0.206	0.119	1.11	0.228	--
	LTE Band 5	QPSK10M	Right Cheek	20450	with	1	49	25.0	24.38	0.16	0.276	0.204	1.15	0.318	--
6	LTE Band 7	QPSK20M	Right Cheek	21100	without	1	49	24.5	23.80	0.04	0.276	0.148	1.17	0.324	--
	LTE Band 7	QPSK20M	Right Tilted	21100	without	1	49	24.5	23.80	-0.08	0.225	0.109	1.17	0.264	--
	LTE Band 7	QPSK20M	Left Cheek	21100	without	1	49	24.5	23.80	-0.02	0.633	0.324	1.17	0.744	--
	LTE Band 7	QPSK20M	Left Tilted	21100	without	1	49	24.5	23.80	-0.04	0.182	0.0927	1.17	0.214	--
	LTE Band 7	QPSK20M	Right Cheek	21100	without	50	50	23.5	22.78	0.05	0.261	0.139	1.18	0.308	--
	LTE Band 7	QPSK20M	Right Tilted	21100	without	50	50	23.5	22.78	-0.03	0.209	0.0999	1.18	0.247	--
	LTE Band 7	QPSK20M	Left Cheek	21100	without	50	50	23.5	22.78	-0.12	0.455	0.236	1.18	0.537	--
	LTE Band 7	QPSK20M	Left Tilted	21100	without	50	50	23.5	22.78	-0.20	0.145	0.0727	1.18	0.171	--
LTE Band 7	QPSK20M	Left Cheek	21100	with	1	49	24.5	23.80	0.03	0.435	0.227	1.17	0.511	--	
7	LTE Band 12(17)	QPSK10M	Right Cheek	23130	without	1	25	25.0	24.33	0.16	0.33	0.253	1.17	0.385	--
	LTE Band 12(17)	QPSK10M	Right Tilted	23130	without	1	25	25.0	24.33	0.06	0.194	0.156	1.17	0.226	--
	LTE Band 12(17)	QPSK10M	Left Cheek	23130	without	1	25	25.0	24.33	-0.03	0.311	0.239	1.17	0.363	--
	LTE Band 12(17)	QPSK10M	Left Tilted	23130	without	1	25	25.0	24.33	-0.03	0.177	0.141	1.17	0.207	--
	LTE Band 12(17)	QPSK10M	Right Cheek	23130	without	25	25	25.0	24.47	0.14	0.27	0.207	1.13	0.305	--
	LTE Band 12(17)	QPSK10M	Right Tilted	23130	without	25	25	25.0	24.47	-0.02	0.128	0.0976	1.13	0.145	--
	LTE Band 12(17)	QPSK10M	Left Cheek	23130	without	25	25	25.0	24.47	0.01	0.258	0.184	1.13	0.291	--
	LTE Band 12(17)	QPSK10M	Left Tilted	23130	without	25	25	25.0	24.47	0.11	0.113	0.0842	1.13	0.128	--
	LTE Band 12(17)	QPSK10M	Right Cheek	23130	with	1	25	25.0	24.33	0.13	0.315	0.242	1.17	0.368	--

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8	LTE Band 13	QPSK10M	Right Cheek	23230	without	1	0	25.0	24.27	0.14	0.341	0.257	1.18	0.403	--
	LTE Band 13	QPSK10M	Right Tilted	23230	without	1	0	25.0	24.27	-0.04	0.203	0.162	1.18	0.240	--
	LTE Band 13	QPSK10M	Left Cheek	23230	without	1	0	25.0	24.27	-0.01	0.323	0.244	1.18	0.382	--
	LTE Band 13	QPSK10M	Left Tilted	23230	without	1	0	25.0	24.27	0.00	0.189	0.147	1.18	0.224	--
	LTE Band 13	QPSK10M	Right Cheek	23230	without	25	25	24.0	23.38	0.19	0.271	0.204	1.15	0.313	--
	LTE Band 13	QPSK10M	Right Tilted	23230	without	25	25	24.0	23.38	-0.05	0.141	0.107	1.15	0.163	--
	LTE Band 13	QPSK10M	Left Cheek	23230	without	25	25	24.0	23.38	0.16	0.255	0.192	1.15	0.294	--
	LTE Band 13	QPSK10M	Left Tilted	23230	without	25	25	24.0	23.38	0.01	0.128	0.0867	1.15	0.148	--
	LTE Band 13	QPSK10M	Right Cheek	23230	with	1	0	25.0	24.27	0.07	0.288	0.217	1.18	0.341	--
9	LTE Band 14	QPSK10M	Right Cheek	23330	without	1	25	25.0	24.36	0.03	0.296	0.223	1.16	0.343	--
	LTE Band 14	QPSK10M	Right Tilted	23330	without	1	25	25.0	24.36	0.01	0.167	0.124	1.16	0.194	--
	LTE Band 14	QPSK10M	Left Cheek	23330	without	1	25	25.0	24.36	0.11	0.269	0.202	1.16	0.312	--
	LTE Band 14	QPSK10M	Left Tilted	23330	without	1	25	25.0	24.36	-0.18	0.122	0.0953	1.16	0.141	--
	LTE Band 14	QPSK10M	Right Cheek	23330	without	25	0	24.0	23.45	0.04	0.231	0.182	1.14	0.262	--
	LTE Band 14	QPSK10M	Right Tilted	23330	without	25	0	24.0	23.45	0.06	0.0873	0.0454	1.14	0.099	--
	LTE Band 14	QPSK10M	Left Cheek	23330	without	25	0	24.0	23.45	-0.01	0.206	0.168	1.14	0.234	--
	LTE Band 14	QPSK10M	Left Tilted	23330	without	25	0	24.0	23.45	0.04	0.0624	0.0311	1.14	0.071	--
	LTE Band 14	QPSK10M	Right Cheek	23330	with	1	25	25.0	24.36	0.16	0.213	0.16	1.16	0.247	--
10	LTE Band 25	QPSK20M	Right Cheek	26590	without	1	99	24.0	23.71	0.11	0.414	0.27	1.07	0.443	--
	LTE Band 25	QPSK20M	Right Tilted	26590	without	1	99	24.0	23.71	0.03	0.273	0.16	1.07	0.292	--
	LTE Band 25	QPSK20M	Left Cheek	26590	without	1	99	24.0	23.71	0.13	0.712	0.441	1.07	0.761	--
	LTE Band 25	QPSK20M	Left Tilted	26590	without	1	99	24.0	23.71	0.00	0.418	0.246	1.07	0.447	--
	LTE Band 25	QPSK20M	Right Cheek	26590	without	50	0	23.0	22.62	0.03	0.28	0.189	1.09	0.306	--
	LTE Band 25	QPSK20M	Right Tilted	26590	without	50	0	23.0	22.62	0.02	0.203	0.118	1.09	0.222	--
	LTE Band 25	QPSK20M	Left Cheek	26590	without	50	0	23.0	22.62	0.05	0.523	0.326	1.09	0.571	--
	LTE Band 25	QPSK20M	Left Tilted	26590	without	50	0	23.0	22.62	0.17	0.325	0.19	1.09	0.355	--
	LTE Band 25	QPSK20M	Left Cheek	26590	with	1	99	24.0	23.71	0.12	0.579	0.362	1.07	0.619	--

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
11	LTE Band 26	QPSK15M	Right Cheek	26965	without	1	74	24.5	23.90	0.16	0.332	0.248	1.15	0.381	--
	LTE Band 26	QPSK15M	Right Tilted	26965	without	1	74	24.5	23.90	-0.05	0.208	0.162	1.15	0.239	--
	LTE Band 26	QPSK15M	Left Cheek	26965	without	1	74	24.5	23.90	-0.04	0.303	0.225	1.15	0.348	--
	LTE Band 26	QPSK15M	Left Tilted	26965	without	1	74	24.5	23.90	0.01	0.187	0.138	1.15	0.215	--
	LTE Band 26	QPSK15M	Right Cheek	26965	without	36	0	24.5	23.98	0.02	0.285	0.214	1.13	0.321	--
	LTE Band 26	QPSK15M	Right Tilted	26965	without	36	0	24.5	23.98	0.18	0.194	0.158	1.13	0.219	--
	LTE Band 26	QPSK15M	Left Cheek	26965	without	36	0	24.5	23.98	0.04	0.268	0.197	1.13	0.302	--
	LTE Band 26	QPSK15M	Left Tilted	26965	without	36	0	24.5	23.98	-0.04	0.171	0.13	1.13	0.193	--
	LTE Band 26	QPSK15M	Right Cheek	26965	with	1	74	24.5	23.90	0.00	0.224	0.167	1.15	0.257	--
12	LTE Band 30	QPSK10M	Right Cheek	27710	without	1	25	24.0	23.53	0.09	0.375	0.182	1.11	0.418	--
	LTE Band 30	QPSK10M	Right Tilted	27710	without	1	25	24.0	23.53	0.09	0.211	0.111	1.11	0.235	--
	LTE Band 30	QPSK10M	Left Cheek	27710	without	1	25	24.0	23.53	-0.08	0.432	0.233	1.11	0.481	--
	LTE Band 30	QPSK10M	Left Tilted	27710	without	1	25	24.0	23.53	0.11	0.0809	0.0357	1.11	0.090	--
	LTE Band 30	QPSK10M	Right Cheek	27710	without	25	25	23.0	22.38	0.08	0.206	0.107	1.15	0.238	--
	LTE Band 30	QPSK10M	Right Tilted	27710	without	25	25	23.0	22.38	0.06	0.161	0.0847	1.15	0.186	--
	LTE Band 30	QPSK10M	Left Cheek	27710	without	25	25	23.0	22.38	0.03	0.268	0.144	1.15	0.309	--
	LTE Band 30	QPSK10M	Left Tilted	27710	without	25	25	23.0	22.38	0.05	0.0687	0.0301	1.15	0.079	--
	LTE Band 30	QPSK10M	Left Cheek	27710	with	1	25	24.0	23.53	0.09	0.398	0.215	1.11	0.443	--
13	LTE Band 41	QPSK20M	Right Cheek	40620	without	1	0	26.0	25.51	0.05	0.169	0.0883	1.12	0.189	--
	LTE Band 41	QPSK20M	Right Tilted	40620	without	1	0	26.0	25.51	0.19	0.133	0.0601	1.12	0.149	--
	LTE Band 41	QPSK20M	Left Cheek	40620	without	1	0	26.0	25.51	-0.06	0.344	0.174	1.12	0.385	--
	LTE Band 41	QPSK20M	Left Tilted	40620	without	1	0	26.0	25.51	-0.04	0.0869	0.0436	1.12	0.097	--
	LTE Band 41	QPSK20M	Right Cheek	40620	without	50	0	25.0	24.41	0.03	0.14	0.0728	1.15	0.160	--
	LTE Band 41	QPSK20M	Right Tilted	40620	without	50	0	25.0	24.41	-0.04	0.111	0.0499	1.15	0.127	--
	LTE Band 41	QPSK20M	Left Cheek	40620	without	50	0	25.0	24.41	-0.07	0.293	0.148	1.15	0.336	--
	LTE Band 41	QPSK20M	Left Tilted	40620	without	50	0	25.0	24.41	-0.04	0.0733	0.0367	1.15	0.084	--
	LTE Band 41	QPSK20M	Left Cheek	40620	with	1	0	26.0	25.51	0.08	0.242	0.123	1.12	0.271	--

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	LTE Band 66(4)	QPSK20M	Right Cheek	132322	without	1	0	24.0	23.73	0.13	0.284	0.187	1.06	0.302	--
	LTE Band 66(4)	QPSK20M	Right Tilted	132322	without	1	0	24.0	23.73	0.16	0.204	0.125	1.06	0.217	--
14	LTE Band 66(4)	QPSK20M	Left Cheek	132322	without	1	0	24.0	23.73	0.07	0.488	0.31	1.06	0.519	--
	LTE Band 66(4)	QPSK20M	Left Tilted	132322	without	1	0	24.0	23.73	0.04	0.257	0.157	1.06	0.273	--
	LTE Band 66(4)	QPSK20M	Right Cheek	132072	without	50	24	24.5	23.81	0.04	0.238	0.156	1.17	0.279	--
	LTE Band 66(4)	QPSK20M	Right Tilted	132072	without	50	24	24.5	23.81	0.00	0.166	0.102	1.17	0.195	--
	LTE Band 66(4)	QPSK20M	Left Cheek	132072	without	50	24	24.5	23.81	0.03	0.336	0.219	1.17	0.394	--
	LTE Band 66(4)	QPSK20M	Left Tilted	132072	without	50	24	24.5	23.81	-0.04	0.213	0.132	1.17	0.250	--
	LTE Band 66(4)	QPSK20M	Left Cheek	132322	with	1	0	24.0	23.73	0.07	0.431	0.274	1.06	0.459	--
15	LTE Band 71	QPSK20M	Right Cheek	133372	without	1	49	25.0	24.55	0.07	0.342	0.263	1.11	0.379	--
	LTE Band 71	QPSK20M	Right Tilted	133372	without	1	49	25.0	24.55	0.04	0.204	0.165	1.11	0.226	--
	LTE Band 71	QPSK20M	Left Cheek	133372	without	1	49	25.0	24.55	-0.04	0.329	0.253	1.11	0.365	--
	LTE Band 71	QPSK20M	Left Tilted	133372	without	1	49	25.0	24.55	-0.08	0.184	0.149	1.11	0.204	--
	LTE Band 71	QPSK20M	Right Cheek	133372	without	50	0	24.0	23.59	0.01	0.242	0.186	1.10	0.266	--
	LTE Band 71	QPSK20M	Right Tilted	133372	without	50	0	24.0	23.59	0.00	0.117	0.0824	1.10	0.129	--
	LTE Band 71	QPSK20M	Left Cheek	133372	without	50	0	24.0	23.59	0.14	0.23	0.177	1.10	0.253	--
	LTE Band 71	QPSK20M	Left Tilted	133372	without	50	0	24.0	23.59	-0.08	0.108	0.0714	1.10	0.119	--
	LTE Band 71	QPSK20M	Right Cheek	133372	with	1	49	25.0	24.55	0.15	0.295	0.228	1.11	0.327	--
	2.4GHz_Wi-Fi	IEEE 802.11b	Right Cheek	6	without	--	--	18.0	17.54	-0.02	0.164	0.0803	1.11	0.182	--
	2.4GHz_Wi-Fi	IEEE 802.11b	Right Tilted	6	without	--	--	18.0	17.54	0.02	0.105	0.0518	1.11	0.117	--
16	2.4GHz_Wi-Fi	IEEE 802.11b	Left Cheek	6	without	--	--	18.0	17.54	-0.09	0.486	0.227	1.11	0.540	--
	2.4GHz_Wi-Fi	IEEE 802.11b	Left Tilted	6	without	--	--	18.0	17.54	0.07	0.28	0.128	1.11	0.311	--
	2.4GHz_Wi-Fi	IEEE 802.11b	Left Cheek	6	with	--	--	18.0	17.54	0.05	0.464	0.219	1.11	0.516	--
	5GHz_Wi-Fi	IEEE 802.11a	Right Cheek	60	without	--	--	14.0	13.64	-0.06	0.461	0.156	1.09	0.501	--
	5GHz_Wi-Fi	IEEE 802.11a	Right Tilted	60	without	--	--	14.0	13.64	-0.03	0.46	0.155	1.09	0.500	--
17	5GHz_Wi-Fi	IEEE 802.11a	Left Cheek	60	without	--	--	14.0	13.64	-0.03	0.509	0.164	1.09	0.553	--
	5GHz_Wi-Fi	IEEE 802.11a	Left Tilted	60	without	--	--	14.0	13.64	0.18	0.429	0.142	1.09	0.466	--
	5GHz_Wi-Fi	IEEE 802.11a	Left Cheek	60	without	--	--	14.0	13.64	-0.06	0.498	0.159	1.09	0.541	--

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	5GHz_Wi-Fi	IEEE 802.11a	Right Cheek	165	without	--	--	14.5	13.90	-0.02	0.423	0.133	1.15	0.486	--
	5GHz_Wi-Fi	IEEE 802.11a	Right Tilted	165	without	--	--	14.5	13.90	-0.15	0.458	0.142	1.15	0.526	--
18	5GHz_Wi-Fi	IEEE 802.11a	Left Cheek	165	without	--	--	14.5	13.90	-0.08	0.669	0.195	1.15	0.768	--
	5GHz_Wi-Fi	IEEE 802.11a	Left Tilted	165	without	--	--	14.5	13.90	-0.02	0.601	0.181	1.15	0.690	--
	5GHz_Wi-Fi	IEEE 802.11a	Left Cheek	165	without	--	--	14.5	13.90	0.06	0.661	0.193	1.15	0.759	--
	2.4GHz_Bluetooth	BR_DH5	Right Cheek	0	without	--	--	11.0	10.53	-0.04	0.0659	0.0319	1.11	0.073	--
	2.4GHz_Bluetooth	BR_DH5	Right Tilted	0	without	--	--	11.0	10.53	0.04	0.0458	0.0218	1.11	0.051	--
19	2.4GHz_Bluetooth	BR_DH5	Left Cheek	0	without	--	--	11.0	10.53	0.19	0.156	0.0723	1.11	0.174	--
	2.4GHz_Bluetooth	BR_DH5	Left Tilted	0	without	--	--	11.0	10.53	0.18	0.106	0.0467	1.11	0.118	--
	2.4GHz_Bluetooth	BR_DH5	Left Cheek	0	with	--	--	11.0	10.53	0.15	0.142	0.0667	1.11	0.158	--

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4.4.3. SAR Results for Body-worn Exposure Condition (Separation Distance is 1.0 cm)

Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	WCDMA Band II	RMC12.2K	Front Face	9400	without	--	--	20.5	19.86	0.02	0.505	0.306	1.16	0.585	--
20	WCDMA Band II	RMC12.2K	Rear Face	9400	without	--	--	20.5	19.86	0.15	0.675	0.393	1.16	0.782	--
	WCDMA Band II	RMC12.2K	Rear Face	9400	with	--	--	20.5	19.86	-0.07	0.176	0.114	1.16	0.204	--
	WCDMA Band IV	RMC12.2K	Front Face	1312	without	--	--	21.5	20.81	-0.03	0.624	0.39	1.17	0.731	--
21	WCDMA Band IV	RMC12.2K	Rear Face	1312	without	--	--	21.5	20.81	-0.14	0.807	0.491	1.17	0.946	--
	WCDMA Band IV	RMC12.2K	Rear Face	1413	without	--	--	21.5	20.81	0.12	0.757	0.441	1.17	0.887	--
	WCDMA Band IV	RMC12.2K	Rear Face	1513	without	--	--	21.5	20.81	0.02	0.765	0.47	1.17	0.897	--
	WCDMA Band IV	RMC12.2K	Rear Face	1312	with	--	--	21.5	20.81	-0.05	0.289	0.183	1.17	0.339	--
	WCDMA Band IV	RMC12.2K	Rear Face	1312	without	--	--	21.5	20.81	0.02	0.794	0.451	1.17	0.931	Repeat
	WCDMA Band V	RMC12.2K	Front Face	4132	without	--	--	23.5	22.96	0.07	0.19	0.145	1.13	0.215	--
22	WCDMA Band V	RMC12.2K	Rear Face	4132	without	--	--	23.5	22.96	0.04	0.342	0.258	1.13	0.387	--
	WCDMA Band V	RMC12.2K	Rear Face	4132	with	--	--	23.5	22.96	-0.03	0.148	0.111	1.13	0.168	--
	LTE Band 2	QPSK20M	Front Face	19100	without	1	0	24.0	23.62	-0.02	0.567	0.336	1.09	0.619	--
23	LTE Band 2	QPSK20M	Rear Face	19100	without	1	0	24.0	23.62	-0.02	0.892	0.521	1.09	0.974	--
	LTE Band 2	QPSK20M	Front Face	19100	without	50	24	24.0	23.73	0.05	0.491	0.291	1.06	0.522	--
	LTE Band 2	QPSK20M	Rear Face	19100	without	50	24	24.0	23.73	0.00	0.746	0.433	1.06	0.794	--
	LTE Band 2	QPSK20M	Rear Face	19100	without	100	0	23.0	22.70	-0.01	0.801	0.461	1.07	0.858	--
	LTE Band 2	QPSK20M	Rear Face	18700	without	1	0	24.0	23.32	-0.04	0.783	0.452	1.17	0.916	--
	LTE Band 2	QPSK20M	Rear Face	18900	without	1	0	24.0	23.57	-0.05	0.692	0.411	1.10	0.764	--
	LTE Band 2	QPSK20M	Rear Face	18700	without	100	0	23.0	22.39	-0.01	0.494	0.295	1.15	0.568	--
	LTE Band 2	QPSK20M	Rear Face	18900	without	100	0	23.0	22.64	-0.08	0.597	0.349	1.09	0.649	--
	LTE Band 2	QPSK20M	Rear Face	19100	with	1	0	24.0	23.62	-0.03	0.286	0.185	1.09	0.312	--
	LTE Band 2	QPSK20M	Rear Face	19100	without	1	0	24.0	23.62	0.02	0.881	0.505	1.09	0.962	Repeat

Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
24	LTE Band 5	QPSK10M	Front Face	20450	without	1	49	25.0	24.38	-0.01	0.294	0.224	1.15	0.339	--
	LTE Band 5	QPSK10M	Rear Face	20450	without	1	49	25.0	24.38	0.03	0.367	0.278	1.15	0.423	--
	LTE Band 5	QPSK10M	Front Face	20450	without	25	25	25.0	24.55	-0.05	0.241	0.184	1.11	0.267	--
	LTE Band 5	QPSK10M	Rear Face	20450	without	25	25	25.0	24.55	-0.01	0.301	0.228	1.11	0.334	--
	LTE Band 5	QPSK10M	Rear Face	20450	with	1	49	25.0	24.38	0.05	0.214	0.161	1.15	0.247	--
25	LTE Band 7	QPSK20M	Front Face	21100	without	1	49	24.5	23.80	-0.01	0.762	0.385	1.17	0.895	--
	LTE Band 7	QPSK20M	Rear Face	21100	without	1	49	24.5	23.80	-0.20	0.825	0.375	1.17	0.969	--
	LTE Band 7	QPSK20M	Front Face	21100	without	50	50	23.5	22.78	0.07	0.477	0.235	1.18	0.563	--
	LTE Band 7	QPSK20M	Rear Face	21100	without	50	50	23.5	22.78	-0.03	0.742	0.336	1.18	0.876	--
	LTE Band 7	QPSK20M	Front Face	21100	without	100	0	23.5	22.72	0.04	0.44	0.218	1.20	0.527	--
	LTE Band 7	QPSK20M	Rear Face	21100	without	100	0	23.5	22.72	-0.10	0.689	0.313	1.20	0.825	--
	LTE Band 7	QPSK20M	Front Face	20850	without	1	49	24.5	23.69	0.02	0.567	0.284	1.21	0.683	--
	LTE Band 7	QPSK20M	Front Face	21350	without	1	49	24.5	23.72	-0.07	0.457	0.225	1.20	0.547	--
	LTE Band 7	QPSK20M	Rear Face	20850	without	1	49	24.5	23.69	-0.02	0.919	0.411	1.21	1.107	--
	LTE Band 7	QPSK20M	Rear Face	21350	without	1	49	24.5	23.72	-0.02	0.783	0.354	1.20	0.937	--
	LTE Band 7	QPSK20M	Rear Face	20850	without	50	50	23.5	22.74	-0.03	0.715	0.327	1.19	0.852	--
	LTE Band 7	QPSK20M	Rear Face	21350	without	50	50	23.5	22.71	-0.06	0.639	0.29	1.20	0.766	--
	LTE Band 7	QPSK20M	Rear Face	20850	without	100	0	23.5	22.78	0.18	0.72	0.33	1.18	0.850	--
	LTE Band 7	QPSK20M	Rear Face	21350	without	100	0	23.5	22.75	-0.11	0.711	0.32	1.19	0.845	--
	LTE Band 7	QPSK20M	Rear Face	20850	with	1	49	24.5	23.69	-0.03	0.204	0.103	1.21	0.246	--
LTE Band 7	QPSK20M	Rear Face	20850	without	1	49	24.5	23.69	0.07	0.915	0.407	1.21	1.103	Repeat	
26	LTE Band 12(17)	QPSK10M	Front Face	23130	without	1	25	25.0	24.33	0.00	0.323	0.25	1.17	0.377	--
	LTE Band 12(17)	QPSK10M	Rear Face	23130	without	1	25	25.0	24.33	0.01	0.398	0.306	1.17	0.464	--
	LTE Band 12(17)	QPSK10M	Front Face	23130	without	25	25	25.0	24.47	-0.03	0.256	0.198	1.13	0.289	--
	LTE Band 12(17)	QPSK10M	Rear Face	23130	without	25	25	25.0	24.47	0.02	0.315	0.242	1.13	0.356	--
	LTE Band 12(17)	QPSK10M	Rear Face	23130	with	1	25	25.0	24.33	0.19	0.263	0.192	1.17	0.307	--

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27	LTE Band 13	QPSK10M	Front Face	23230	without	1	0	25.0	24.27	0.05	0.199	0.153	1.18	0.235	--
	LTE Band 13	QPSK10M	Rear Face	23230	without	1	0	25.0	24.27	0.00	0.367	0.28	1.18	0.434	--
	LTE Band 13	QPSK10M	Front Face	23230	without	25	25	24.0	23.38	-0.13	0.162	0.114	1.15	0.187	--
	LTE Band 13	QPSK10M	Rear Face	23230	without	25	25	24.0	23.38	0.01	0.282	0.215	1.15	0.325	--
	LTE Band 13	QPSK10M	Rear Face	23230	with	1	0	25.0	24.27	0.00	0.238	0.186	1.18	0.282	--
28	LTE Band 14	QPSK10M	Front Face	23330	without	1	25	25.0	24.36	-0.14	0.172	0.132	1.16	0.199	--
	LTE Band 14	QPSK10M	Rear Face	23330	without	1	25	25.0	24.36	0.00	0.298	0.228	1.16	0.345	--
	LTE Band 14	QPSK10M	Front Face	23330	without	25	0	24.0	23.45	0.01	0.144	0.0947	1.14	0.163	--
	LTE Band 14	QPSK10M	Rear Face	23330	without	25	0	24.0	23.45	0.02	0.253	0.193	1.14	0.287	--
	LTE Band 14	QPSK10M	Rear Face	23330	with	1	25	25.0	24.36	-0.01	0.175	0.133	1.16	0.203	--
29	LTE Band 25	QPSK20M	Front Face	26590	without	1	99	24.0	23.71	0.04	0.785	0.472	1.07	0.839	--
	LTE Band 25	QPSK20M	Rear Face	26590	without	1	99	24.0	23.71	0.11	0.897	0.524	1.07	0.959	--
	LTE Band 25	QPSK20M	Front Face	26590	without	50	0	23.0	22.62	-0.01	0.58	0.35	1.09	0.633	--
	LTE Band 25	QPSK20M	Rear Face	26590	without	50	0	23.0	22.62	-0.06	0.667	0.391	1.09	0.728	--
	LTE Band 25	QPSK20M	Front Face	26590	without	100	0	23.0	22.51	0.00	0.61	0.362	1.12	0.683	--
	LTE Band 25	QPSK20M	Rear Face	26590	without	100	0	23.0	22.51	-0.11	0.749	0.435	1.12	0.838	--
	LTE Band 25	QPSK20M	Front Face	26140	without	1	99	24.0	23.42	0.07	0.597	0.358	1.14	0.682	--
	LTE Band 25	QPSK20M	Front Face	26365	without	1	99	24.0	23.57	-0.09	0.649	0.388	1.10	0.717	--
	LTE Band 25	QPSK20M	Rear Face	26140	without	1	99	24.0	23.42	-0.04	0.754	0.446	1.14	0.862	--
	LTE Band 25	QPSK20M	Rear Face	26365	without	1	99	24.0	23.57	0.00	0.843	0.491	1.10	0.931	--
	LTE Band 25	QPSK20M	Rear Face	26140	without	100	0	23.0	22.44	0.01	0.656	0.389	1.14	0.746	--
	LTE Band 25	QPSK20M	Rear Face	26365	without	100	0	23.0	22.58	-0.07	0.69	0.407	1.10	0.760	--
	LTE Band 25	QPSK20M	Rear Face	26590	with	1	99	24.0	23.71	-0.02	0.25	0.161	1.07	0.267	--
LTE Band 25	QPSK20M	Rear Face	26590	without	1	99	24.0	23.71	0.03	0.802	0.463	1.07	0.857	Repeat	
30	LTE Band 26	QPSK15M	Front Face	26965	without	1	74	24.5	23.90	-0.02	0.271	0.208	1.15	0.311	--
	LTE Band 26	QPSK15M	Rear Face	26965	without	1	74	24.5	23.90	0.00	0.34	0.257	1.15	0.390	--
	LTE Band 26	QPSK15M	Front Face	26965	without	36	0	24.5	23.98	-0.03	0.248	0.189	1.13	0.280	--
	LTE Band 26	QPSK15M	Rear Face	26965	without	36	0	24.5	23.98	0.00	0.307	0.232	1.13	0.346	--
	LTE Band 26	QPSK15M	Rear Face	26965	with	1	74	24.5	23.90	-0.01	0.177	0.133	1.15	0.203	--

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31	LTE Band 30	QPSK10M	Front Face	27710	without	1	25	24.0	23.53	-0.01	0.707	0.392	1.11	0.788	--
	LTE Band 30	QPSK10M	Rear Face	27710	without	1	25	24.0	23.53	-0.02	1.03	0.521	1.11	1.148	--
	LTE Band 30	QPSK10M	Front Face	27710	without	25	25	23.0	22.38	-0.07	0.561	0.311	1.15	0.647	--
	LTE Band 30	QPSK10M	Rear Face	27710	without	25	25	23.0	22.38	0.01	0.642	0.281	1.15	0.741	--
	LTE Band 30	QPSK10M	Rear Face	27710	without	50	0	23.0	22.38	0.02	0.655	0.343	1.15	0.756	--
	LTE Band 30	QPSK10M	Rear Face	27710	with	1	25	24.0	23.53	0.07	0.351	0.193	1.11	0.391	--
	LTE Band 30	QPSK10M	Rear Face	27710	without	1	25	24.0	23.53	0.00	0.996	0.493	1.11	1.110	Repeat
32	LTE Band 41	QPSK20M	Front Face	40620	without	1	0	26.0	25.51	-0.17	0.263	0.126	1.12	0.294	--
	LTE Band 41	QPSK20M	Rear Face	40620	without	1	0	26.0	25.51	-0.03	0.591	0.264	1.12	0.662	--
	LTE Band 41	QPSK20M	Front Face	40620	without	50	0	25.0	24.41	-0.04	0.227	0.108	1.15	0.260	--
	LTE Band 41	QPSK20M	Rear Face	40620	without	50	0	25.0	24.41	-0.15	0.498	0.222	1.15	0.570	--
	LTE Band 41	QPSK20M	Rear Face	40620	with	1	0	26.0	25.51	-0.07	0.179	0.0894	1.12	0.200	--
33	LTE Band 66(4)	QPSK20M	Front Face	132322	without	1	0	24.0	23.73	-0.02	0.497	0.308	1.06	0.529	--
	LTE Band 66(4)	QPSK20M	Rear Face	132322	without	1	0	24.0	23.73	-0.07	0.845	0.526	1.06	0.899	--
	LTE Band 66(4)	QPSK20M	Front Face	132072	without	50	24	24.5	23.81	-0.01	0.432	0.27	1.17	0.506	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	50	24	24.5	23.81	-0.11	0.737	0.455	1.17	0.864	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	100	0	23.0	22.55	0.08	0.754	0.468	1.11	0.836	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	1	0	24.0	23.57	-0.04	0.949	0.586	1.10	1.048	--
	LTE Band 66(4)	QPSK20M	Rear Face	132572	without	1	0	24.0	23.58	0.02	0.819	0.509	1.10	0.902	--
	LTE Band 66(4)	QPSK20M	Rear Face	132322	without	50	24	24.5	23.70	-0.03	0.697	0.433	1.20	0.838	--
	LTE Band 66(4)	QPSK20M	Rear Face	132572	without	50	24	24.5	23.53	-0.15	0.633	0.393	1.25	0.791	--
	LTE Band 66(4)	QPSK20M	Rear Face	132322	without	100	0	23.0	22.70	-0.02	0.683	0.425	1.07	0.732	--
	LTE Band 66(4)	QPSK20M	Rear Face	132572	without	100	0	23.0	22.61	-0.01	0.65	0.402	1.09	0.711	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	with	1	0	24.0	23.57	-0.03	0.357	0.229	1.10	0.394	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	1	0	24.0	23.57	-0.15	0.927	0.573	1.10	1.023	Repeat
34	LTE Band 71	QPSK20M	Front Face	133372	without	1	49	25.0	24.55	0.00	0.32	0.249	1.11	0.355	--
	LTE Band 71	QPSK20M	Rear Face	133372	without	1	49	25.0	24.55	0.04	0.38	0.294	1.11	0.421	--
	LTE Band 71	QPSK20M	Front Face	133372	without	50	0	24.0	23.59	-0.04	0.231	0.18	1.10	0.254	--
	LTE Band 71	QPSK20M	Rear Face	133372	without	50	0	24.0	23.59	-0.03	0.273	0.211	1.10	0.300	--
	LTE Band 71	QPSK20M	Rear Face	133372	with	1	49	25.0	24.55	-0.03	0.224	0.171	1.11	0.248	--

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	2.4GHz_Wi-Fi	IEEE 802.11b	Front Face	6	without	--	--	18.0	17.54	-0.08	0.108	0.0544	1.11	0.120	--
35	2.4GHz_Wi-Fi	IEEE 802.11b	Rear Face	6	without	--	--	18.0	17.54	0.09	0.125	0.0641	1.11	0.139	--
	2.4GHz_Wi-Fi	IEEE 802.11b	Rear Face	6	with	--	--	18.0	17.54	0.05	0.0336	0.0181	1.11	0.037	--
	5GHz_Wi-Fi	IEEE 802.11a	Front Face	60	without	--	--	14.0	13.64	-0.04	0.116	0.045	1.09	0.126	--
36	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	60	without	--	--	14.0	13.64	0.14	0.164	0.065	1.09	0.178	--
	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	60	with	--	--	14.0	13.64	0.06	0.111	0.05	1.09	0.121	--
	5GHz_Wi-Fi	IEEE 802.11a	Front Face	165	without	--	--	14.5	13.90	-0.06	0.133	0.05	1.15	0.153	--
37	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	165	without	--	--	14.5	13.90	-0.09	0.211	0.079	1.15	0.242	--
	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	165	with	--	--	14.5	13.90	0.05	0.143	0.061	1.15	0.164	--
	2.4GHz_Bluetooth	BR_DH5	Front Face	0	without	--	--	11.0	10.53	-0.04	0.0366	0.0183	1.11	0.041	--
38	2.4GHz_Bluetooth	BR_DH5	Rear Face	0	without	--	--	11.0	10.53	0.04	0.0467	0.0233	1.11	0.052	--
	2.4GHz_Bluetooth	BR_DH5	Rear Face	0	with	--	--	11.0	10.53	0.09	0.0133	0.00719	1.11	0.015	--

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4.4.4. SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm)

Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	WCDMA Band II	RMC12.2K	Front Face	9400	without	--	--	20.5	19.86	0.02	0.505	0.306	1.16	0.585	--
39	WCDMA Band II	RMC12.2K	Rear Face	9400	without	--	--	20.5	19.86	0.15	0.675	0.393	1.16	0.782	--
	WCDMA Band II	RMC12.2K	Left Side	9400	without	--	--	20.5	19.86	0.01	0.383	0.232	1.16	0.444	--
	WCDMA Band II	RMC12.2K	Right Side	9400	without	--	--	20.5	19.86	0.17	0.0975	0.0579	1.16	0.113	--
	WCDMA Band II	RMC12.2K	Bottom Side	9400	without	--	--	20.5	19.86	0.10	0.495	0.283	1.16	0.574	--
	WCDMA Band II	RMC12.2K	Rear Face	9400	with	--	--	20.5	19.86	-0.07	0.176	0.114	1.16	0.204	--
	WCDMA Band IV	RMC12.2K	Front Face	1312	without	--	--	21.5	20.81	-0.03	0.624	0.39	1.17	0.731	--
40	WCDMA Band IV	RMC12.2K	Rear Face	1312	without	--	--	21.5	20.81	-0.14	0.807	0.491	1.17	0.946	--
	WCDMA Band IV	RMC12.2K	Left Side	1312	without	--	--	21.5	20.81	-0.08	0.278	0.171	1.17	0.326	--
	WCDMA Band IV	RMC12.2K	Right Side	1312	without	--	--	21.5	20.81	-0.08	0.116	0.0716	1.17	0.136	--
	WCDMA Band IV	RMC12.2K	Bottom Side	1312	without	--	--	21.5	20.81	-0.11	0.594	0.337	1.17	0.696	--
	WCDMA Band IV	RMC12.2K	Rear Face	1413	without	--	--	21.5	20.81	0.12	0.757	0.441	1.17	0.887	--
	WCDMA Band IV	RMC12.2K	Rear Face	1513	without	--	--	21.5	20.81	0.02	0.765	0.47	1.17	0.897	--
	WCDMA Band IV	RMC12.2K	Rear Face	1312	with	--	--	21.5	20.81	-0.05	0.289	0.183	1.17	0.339	--
	WCDMA Band IV	RMC12.2K	Rear Face	1312	without	--	--	21.5	20.81	0.02	0.794	0.451	1.17	0.931	Repeat
	WCDMA Band V	RMC12.2K	Front Face	4132	without	--	--	23.5	22.96	0.07	0.19	0.145	1.13	0.215	--
41	WCDMA Band V	RMC12.2K	Rear Face	4132	without	--	--	23.5	22.96	0.04	0.342	0.258	1.13	0.387	--
	WCDMA Band V	RMC12.2K	Left Side	4132	without	--	--	23.5	22.96	-0.05	0.156	0.108	1.13	0.177	--
	WCDMA Band V	RMC12.2K	Right Side	4132	without	--	--	23.5	22.96	0.06	0.189	0.13	1.13	0.214	--
	WCDMA Band V	RMC12.2K	Bottom Side	4132	without	--	--	23.5	22.96	0.03	0.0429	0.022	1.13	0.049	--
	WCDMA Band V	RMC12.2K	Rear Face	4132	with	--	--	23.5	22.96	-0.03	0.148	0.111	1.13	0.168	--

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note	
42	LTE Band 2	QPSK20M	Front Face	19100	without	1	0	24.0	23.62	-0.02	0.567	0.336	1.09	0.619	--	
	LTE Band 2	QPSK20M	Rear Face	19100	without	1	0	24.0	23.62	-0.02	0.892	0.521	1.09	0.974	--	
	LTE Band 2	QPSK20M	Left Side	19100	without	1	0	24.0	23.62	0.13	0.425	0.259	1.09	0.464	--	
	LTE Band 2	QPSK20M	Right Side	19100	without	1	0	24.0	23.62	0.16	0.127	0.0753	1.09	0.139	--	
	LTE Band 2	QPSK20M	Bottom Side	19100	without	1	0	24.0	23.62	0.16	0.476	0.275	1.09	0.520	--	
	LTE Band 2	QPSK20M	Front Face	19100	without	50	24	24.0	23.73	0.05	0.491	0.291	1.06	0.522	--	
	LTE Band 2	QPSK20M	Rear Face	19100	without	50	24	24.0	23.73	0.00	0.746	0.433	1.06	0.794	--	
	LTE Band 2	QPSK20M	Left Side	19100	without	50	24	24.0	23.73	0.11	0.356	0.217	1.06	0.379	--	
	LTE Band 2	QPSK20M	Right Side	19100	without	50	24	24.0	23.73	0.18	0.101	0.0597	1.06	0.107	--	
	LTE Band 2	QPSK20M	Bottom Side	19100	without	50	24	24.0	23.73	0.07	0.405	0.234	1.06	0.431	--	
	LTE Band 2	QPSK20M	Rear Face	18700	without	1	0	24.0	23.32	-0.04	0.783	0.452	1.17	0.916	--	
	LTE Band 2	QPSK20M	Rear Face	18900	without	1	0	24.0	23.57	-0.05	0.692	0.411	1.10	0.764	--	
	LTE Band 2	QPSK20M	Rear Face	19100	without	100	0	23.0	22.70	-0.01	0.801	0.461	1.07	0.858	--	
	LTE Band 2	QPSK20M	Rear Face	18700	without	100	0	23.0	22.39	-0.01	0.494	0.295	1.15	0.568	--	
	LTE Band 2	QPSK20M	Rear Face	18900	without	100	0	23.0	22.64	-0.08	0.597	0.349	1.09	0.649	--	
	LTE Band 2	QPSK20M	Rear Face	19100	with	1	0	24.0	23.62	-0.03	0.286	0.185	1.09	0.312	--	
	LTE Band 2	QPSK20M	Rear Face	19100	without	1	0	24.0	23.62	0.02	0.881	0.505	1.09	0.962	Repeat	
	43	LTE Band 5	QPSK10M	Front Face	20450	without	1	49	25.0	24.38	-0.01	0.294	0.224	1.15	0.339	--
		LTE Band 5	QPSK10M	Rear Face	20450	without	1	49	25.0	24.38	0.03	0.367	0.278	1.15	0.423	--
LTE Band 5		QPSK10M	Left Side	20450	without	1	49	25.0	24.38	0.01	0.237	0.163	1.15	0.273	--	
LTE Band 5		QPSK10M	Right Side	20450	without	1	49	25.0	24.38	-0.06	0.311	0.215	1.15	0.359	--	
LTE Band 5		QPSK10M	Bottom Side	20450	without	1	49	25.0	24.38	0.03	0.0984	0.0507	1.15	0.113	--	
LTE Band 5		QPSK10M	Front Face	20450	without	25	25	25.0	24.55	-0.05	0.241	0.184	1.11	0.267	--	
LTE Band 5		QPSK10M	Rear Face	20450	without	25	25	25.0	24.55	-0.01	0.301	0.228	1.11	0.334	--	
LTE Band 5		QPSK10M	Left Side	20450	without	25	25	25.0	24.55	-0.03	0.19	0.131	1.11	0.211	--	
LTE Band 5		QPSK10M	Right Side	20450	without	25	25	25.0	24.55	-0.02	0.25	0.172	1.11	0.277	--	
LTE Band 5		QPSK10M	Bottom Side	20450	without	25	25	25.0	24.55	0.04	0.0757	0.0387	1.11	0.084	--	
	LTE Band 5	QPSK10M	Rear Face	20450	with	1	49	25.0	24.38	0.05	0.214	0.161	1.15	0.247	--	

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	LTE Band 7	QPSK20M	Front Face	21100	without	1	49	24.5	23.80	-0.01	0.762	0.385	1.17	0.895	--
	LTE Band 7	QPSK20M	Rear Face	21100	without	1	49	24.5	23.80	-0.20	0.825	0.375	1.17	0.969	--
	LTE Band 7	QPSK20M	Left Side	21100	without	1	49	24.5	23.80	-0.03	0.376	0.191	1.17	0.442	--
	LTE Band 7	QPSK20M	Right Side	21100	without	1	49	24.5	23.80	0.04	0.0505	0.0283	1.17	0.059	--
	LTE Band 7	QPSK20M	Bottom Side	21100	without	1	49	24.5	23.80	-0.04	0.758	0.383	1.17	0.891	--
	LTE Band 7	QPSK20M	Front Face	21100	without	50	50	23.5	22.78	0.07	0.477	0.235	1.18	0.563	--
	LTE Band 7	QPSK20M	Rear Face	21100	without	50	50	23.5	22.78	-0.03	0.742	0.336	1.18	0.876	--
	LTE Band 7	QPSK20M	Left Side	21100	without	50	50	23.5	22.78	0.10	0.346	0.175	1.18	0.408	--
	LTE Band 7	QPSK20M	Right Side	21100	without	50	50	23.5	22.78	0.03	0.136	0.0752	1.18	0.161	--
	LTE Band 7	QPSK20M	Bottom Side	21100	without	50	50	23.5	22.78	0.06	0.657	0.332	1.18	0.775	--
	LTE Band 7	QPSK20M	Front Face	21100	without	100	0	23.5	22.72	0.04	0.44	0.218	1.20	0.527	--
	LTE Band 7	QPSK20M	Rear Face	21100	without	100	0	23.5	22.72	-0.10	0.689	0.313	1.20	0.825	--
	LTE Band 7	QPSK20M	Rear Face	20850	without	100	0	23.5	22.78	0.18	0.72	0.33	1.18	0.850	--
	LTE Band 7	QPSK20M	Rear Face	21350	without	100	0	23.5	22.75	-0.11	0.711	0.32	1.19	0.845	--
	LTE Band 7	QPSK20M	Bottom Side	20850	without	100	0	23.5	22.78	0.12	0.572	0.292	1.18	0.675	--
	LTE Band 7	QPSK20M	Bottom Side	21100	without	100	0	23.5	22.72	0.16	0.627	0.319	1.20	0.750	--
	LTE Band 7	QPSK20M	Bottom Side	21350	without	100	0	23.5	22.75	0.11	0.618	0.304	1.19	0.734	--
	LTE Band 7	QPSK20M	Front Face	20850	without	1	49	24.5	23.69	0.02	0.567	0.284	1.21	0.683	--
	LTE Band 7	QPSK20M	Front Face	21350	without	1	49	24.5	23.72	-0.07	0.457	0.225	1.20	0.547	--
44	LTE Band 7	QPSK20M	Rear Face	20850	without	1	49	24.5	23.69	-0.02	0.919	0.411	1.21	1.107	--
	LTE Band 7	QPSK20M	Rear Face	21350	without	1	49	24.5	23.72	-0.02	0.783	0.354	1.20	0.937	--
	LTE Band 7	QPSK20M	Bottom Side	20850	without	1	49	24.5	23.69	0.02	0.762	0.389	1.21	0.918	--
	LTE Band 7	QPSK20M	Bottom Side	21350	without	1	49	24.5	23.72	-0.02	0.652	0.317	1.20	0.780	--
	LTE Band 7	QPSK20M	Rear Face	20850	without	50	50	23.5	22.74	-0.03	0.715	0.327	1.19	0.852	--
	LTE Band 7	QPSK20M	Rear Face	21350	without	50	50	23.5	22.71	-0.06	0.639	0.29	1.20	0.766	--
	LTE Band 7	QPSK20M	Rear Face	20850	with	1	49	24.5	23.69	-0.03	0.204	0.103	1.21	0.246	--
	LTE Band 7	QPSK20M	Rear Face	20850	without	1	49	24.5	23.69	0.07	0.915	0.407	1.21	1.103	Repeat

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
45	LTE Band 12(17)	QPSK10M	Front Face	23130	without	1	25	25.0	24.33	0.00	0.323	0.25	1.17	0.377	--
	LTE Band 12(17)	QPSK10M	Rear Face	23130	without	1	25	25.0	24.33	0.01	0.398	0.306	1.17	0.464	--
	LTE Band 12(17)	QPSK10M	Left Side	23130	without	1	25	25.0	24.33	-0.03	0.0761	0.054	1.17	0.089	--
	LTE Band 12(17)	QPSK10M	Right Side	23130	without	1	25	25.0	24.33	0.01	0.101	0.0718	1.17	0.118	--
	LTE Band 12(17)	QPSK10M	Bottom Side	23130	without	1	25	25.0	24.33	0.03	0.0742	0.0384	1.17	0.087	--
	LTE Band 12(17)	QPSK10M	Front Face	23130	without	25	25	25.0	24.47	-0.03	0.256	0.198	1.13	0.289	--
	LTE Band 12(17)	QPSK10M	Rear Face	23130	without	25	25	25.0	24.47	0.02	0.315	0.242	1.13	0.356	--
	LTE Band 12(17)	QPSK10M	Left Side	23130	without	25	25	25.0	24.47	-0.11	0.0526	0.0338	1.13	0.059	--
	LTE Band 12(17)	QPSK10M	Right Side	23130	without	25	25	25.0	24.47	0.18	0.0748	0.0421	1.13	0.085	--
	LTE Band 12(17)	QPSK10M	Bottom Side	23130	without	25	25	25.0	24.47	-0.05	0.0429	0.0176	1.13	0.048	--
	LTE Band 12(17)	QPSK10M	Rear Face	23130	with	1	25	25.0	24.33	0.19	0.263	0.192	1.17	0.307	--
46	LTE Band 13	QPSK10M	Front Face	23230	without	1	0	25.0	24.27	0.05	0.199	0.153	1.18	0.235	--
	LTE Band 13	QPSK10M	Rear Face	23230	without	1	0	25.0	24.27	0.00	0.367	0.28	1.18	0.434	--
	LTE Band 13	QPSK10M	Left Side	23230	without	1	0	25.0	24.27	-0.01	0.124	0.0865	1.18	0.147	--
	LTE Band 13	QPSK10M	Right Side	23230	without	1	0	25.0	24.27	-0.02	0.204	0.143	1.18	0.241	--
	LTE Band 13	QPSK10M	Bottom Side	23230	without	1	0	25.0	24.27	0.10	0.0905	0.0462	1.18	0.107	--
	LTE Band 13	QPSK10M	Front Face	23230	without	25	25	24.0	23.38	-0.13	0.162	0.114	1.15	0.187	--
	LTE Band 13	QPSK10M	Rear Face	23230	without	25	25	24.0	23.38	0.01	0.282	0.215	1.15	0.325	--
	LTE Band 13	QPSK10M	Left Side	23230	without	25	25	24.0	23.38	0.04	0.0947	0.0416	1.15	0.109	--
	LTE Band 13	QPSK10M	Right Side	23230	without	25	25	24.0	23.38	0.11	0.152	0.108	1.15	0.175	--
	LTE Band 13	QPSK10M	Bottom Side	23230	without	25	25	24.0	23.38	0.08	0.0631	0.0275	1.15	0.073	--
	LTE Band 13	QPSK10M	Rear Face	23230	with	1	0	25.0	24.27	0.00	0.238	0.186	1.18	0.282	--

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note	
47	LTE Band 14	QPSK10M	Front Face	23330	without	1	25	25.0	24.36	-0.14	0.172	0.132	1.16	0.199	--	
	LTE Band 14	QPSK10M	Rear Face	23330	without	1	25	25.0	24.36	0.00	0.298	0.228	1.16	0.345	--	
	LTE Band 14	QPSK10M	Left Side	23330	without	1	25	25.0	24.36	0.02	0.112	0.0786	1.16	0.130	--	
	LTE Band 14	QPSK10M	Right Side	23330	without	1	25	25.0	24.36	0.01	0.197	0.137	1.16	0.228	--	
	LTE Band 14	QPSK10M	Bottom Side	23330	without	1	25	25.0	24.36	0.02	0.111	0.0573	1.16	0.129	--	
	LTE Band 14	QPSK10M	Front Face	23330	without	25	0	24.0	23.45	0.01	0.144	0.0947	1.14	0.163	--	
	LTE Band 14	QPSK10M	Rear Face	23330	without	25	0	24.0	23.45	0.02	0.253	0.193	1.14	0.287	--	
	LTE Band 14	QPSK10M	Left Side	23330	without	25	0	24.0	23.45	-0.01	0.0868	0.0521	1.14	0.099	--	
	LTE Band 14	QPSK10M	Right Side	23330	without	25	0	24.0	23.45	-0.18	0.162	0.103	1.14	0.184	--	
	LTE Band 14	QPSK10M	Bottom Side	23330	without	25	0	24.0	23.45	0.01	0.0894	0.0376	1.14	0.101	--	
	LTE Band 14	QPSK10M	Rear Face	23330	with	1	25	25.0	24.36	-0.01	0.175	0.133	1.16	0.203	--	
48	LTE Band 25	QPSK20M	Front Face	26590	without	1	99	24.0	23.71	0.04	0.785	0.472	1.07	0.839	--	
	LTE Band 25	QPSK20M	Rear Face	26590	without	1	99	24.0	23.71	0.11	0.897	0.524	1.07	0.959	--	
	LTE Band 25	QPSK20M	Left Side	26590	without	1	99	24.0	23.71	0.03	0.501	0.31	1.07	0.536	--	
	LTE Band 25	QPSK20M	Right Side	26590	without	1	99	24.0	23.71	0.05	0.153	0.0929	1.07	0.164	--	
	LTE Band 25	QPSK20M	Bottom Side	26590	without	1	99	24.0	23.71	-0.06	0.611	0.355	1.07	0.653	--	
	LTE Band 25	QPSK20M	Front Face	26590	without	50	0	23.0	22.62	-0.01	0.58	0.35	1.09	0.633	--	
	LTE Band 25	QPSK20M	Rear Face	26590	without	50	0	23.0	22.62	-0.06	0.667	0.391	1.09	0.728	--	
	LTE Band 25	QPSK20M	Left Side	26590	without	50	0	23.0	22.62	-0.05	0.393	0.244	1.09	0.429	--	
	LTE Band 25	QPSK20M	Right Side	26590	without	50	0	23.0	22.62	0.01	0.123	0.0748	1.09	0.134	--	
	LTE Band 25	QPSK20M	Bottom Side	26590	without	50	0	23.0	22.62	-0.14	0.493	0.288	1.09	0.538	--	
	LTE Band 25	QPSK20M	Front Face	26590	without	100	0	23.0	22.51	0.00	0.61	0.362	1.12	0.683	--	
	LTE Band 25	QPSK20M	Rear Face	26590	without	100	0	23.0	22.51	-0.11	0.749	0.435	1.12	0.838	--	
	LTE Band 25	QPSK20M	Front Face	26140	without	1	99	24.0	23.42	0.07	0.597	0.358	1.14	0.682	--	
	LTE Band 25	QPSK20M	Front Face	26365	without	1	99	24.0	23.57	-0.09	0.649	0.388	1.10	0.717	--	
	LTE Band 25	QPSK20M	Rear Face	26140	without	1	99	24.0	23.42	-0.04	0.754	0.446	1.14	0.862	--	
	LTE Band 25	QPSK20M	Rear Face	26365	without	1	99	24.0	23.57	0.00	0.843	0.491	1.10	0.931	--	
	LTE Band 25	QPSK20M	Rear Face	26140	without	100	0	23.0	22.44	0.01	0.656	0.389	1.14	0.746	--	
	LTE Band 25	QPSK20M	Rear Face	26365	without	100	0	23.0	22.58	-0.07	0.69	0.407	1.10	0.760	--	
		LTE Band 25	QPSK20M	Rear Face	26590	with	1	99	24.0	23.71	-0.02	0.25	0.161	1.07	0.267	--
		LTE Band 25	QPSK20M	Rear Face	26590	without	1	99	24.0	23.71	0.03	0.802	0.463	1.07	0.857	Repeat

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
49	LTE Band 26	QPSK15M	Front Face	26965	without	1	74	24.5	23.90	-0.02	0.271	0.208	1.15	0.311	--
	LTE Band 26	QPSK15M	Rear Face	26965	without	1	74	24.5	23.90	0.00	0.34	0.257	1.15	0.390	--
	LTE Band 26	QPSK15M	Left Side	26965	without	1	74	24.5	23.90	-0.03	0.211	0.146	1.15	0.242	--
	LTE Band 26	QPSK15M	Right Side	26965	without	1	74	24.5	23.90	-0.02	0.316	0.219	1.15	0.363	--
	LTE Band 26	QPSK15M	Bottom Side	26965	without	1	74	24.5	23.90	0.06	0.109	0.0576	1.15	0.125	--
	LTE Band 26	QPSK15M	Front Face	26965	without	36	0	24.5	23.98	-0.03	0.248	0.189	1.13	0.280	--
50	LTE Band 26	QPSK15M	Rear Face	26965	without	36	0	24.5	23.98	0.00	0.307	0.232	1.13	0.346	--
	LTE Band 26	QPSK15M	Left Side	26965	without	36	0	24.5	23.98	0.00	0.185	0.107	1.13	0.209	--
	LTE Band 26	QPSK15M	Right Side	26965	without	36	0	24.5	23.98	0.00	0.279	0.183	1.13	0.314	--
	LTE Band 26	QPSK15M	Bottom Side	26965	without	36	0	24.5	23.98	-0.16	0.0718	0.0364	1.13	0.081	--
	LTE Band 26	QPSK15M	Rear Face	26965	with	1	74	24.5	23.90	-0.01	0.177	0.133	1.15	0.203	--
	LTE Band 30	QPSK10M	Front Face	27710	without	1	25	24.0	23.53	-0.01	0.707	0.392	1.11	0.788	--
50	LTE Band 30	QPSK10M	Rear Face	27710	without	1	25	24.0	23.53	-0.02	1.03	0.521	1.11	1.148	--
	LTE Band 30	QPSK10M	Left Side	27710	without	1	25	24.0	23.53	0.18	0.257	0.135	1.11	0.286	--
	LTE Band 30	QPSK10M	Right Side	27710	without	1	25	24.0	23.53	0.02	0.152	0.0891	1.11	0.169	--
	LTE Band 30	QPSK10M	Bottom Side	27710	without	1	25	24.0	23.53	0.03	1.04	0.547	1.11	1.159	--
	LTE Band 30	QPSK10M	Front Face	27710	without	25	25	23.0	22.38	-0.07	0.561	0.311	1.15	0.647	--
	LTE Band 30	QPSK10M	Rear Face	27710	without	25	25	23.0	22.38	0.01	0.642	0.281	1.15	0.741	--
	LTE Band 30	QPSK10M	Left Side	27710	without	25	25	23.0	22.38	0.02	0.204	0.107	1.15	0.235	--
	LTE Band 30	QPSK10M	Right Side	27710	without	25	25	23.0	22.38	0.03	0.118	0.0692	1.15	0.136	--
	LTE Band 30	QPSK10M	Bottom Side	27710	without	25	25	23.0	22.38	0.16	0.828	0.429	1.15	0.955	--
	LTE Band 30	QPSK10M	Bottom Side	27710	without	50	0	23.0	22.38	0.04	0.822	0.428	1.15	0.948	--
	LTE Band 30	QPSK10M	Rear Face	27710	without	50	0	23.0	22.38	0.02	0.655	0.343	1.15	0.756	--
	LTE Band 30	QPSK10M	Bottom Side	27710	with	1	25	24.0	23.53	-0.04	0.959	0.503	1.11	1.069	--
LTE Band 30	QPSK10M	Bottom Side	27710	without	1	25	24.0	23.53	0.02	1.038	0.543	1.11	1.157	Repeat	

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
51	LTE Band 41	QPSK20M	Front Face	40620	without	1	0	26.0	25.51	-0.17	0.263	0.126	1.12	0.294	--
	LTE Band 41	QPSK20M	Rear Face	40620	without	1	0	26.0	25.51	-0.03	0.591	0.264	1.12	0.662	--
	LTE Band 41	QPSK20M	Left Side	40620	without	1	0	26.0	25.51	0.12	0.22	0.109	1.12	0.246	--
	LTE Band 41	QPSK20M	Right Side	40620	without	1	0	26.0	25.51	0.03	0.067	0.0365	1.12	0.075	--
	LTE Band 41	QPSK20M	Bottom Side	40620	without	1	0	26.0	25.51	0.02	0.353	0.168	1.12	0.395	--
	LTE Band 41	QPSK20M	Front Face	40620	without	50	0	25.0	24.41	-0.04	0.227	0.108	1.15	0.260	--
	LTE Band 41	QPSK20M	Rear Face	40620	without	50	0	25.0	24.41	-0.15	0.498	0.222	1.15	0.570	--
	LTE Band 41	QPSK20M	Left Side	40620	without	50	0	25.0	24.41	0.11	0.182	0.0897	1.15	0.208	--
	LTE Band 41	QPSK20M	Right Side	40620	without	50	0	25.0	24.41	0.05	0.0551	0.0285	1.15	0.063	--
	LTE Band 41	QPSK20M	Bottom Side	40620	without	50	0	25.0	24.41	0.13	0.285	0.135	1.15	0.326	--
	LTE Band 41	QPSK20M	Rear Face	40620	with	1	0	26.0	25.51	-0.07	0.179	0.0894	1.12	0.200	--
	LTE Band 66(4)	QPSK20M	Front Face	132322	without	1	0	24.0	23.73	-0.02	0.497	0.308	1.06	0.529	--
	LTE Band 66(4)	QPSK20M	Rear Face	132322	without	1	0	24.0	23.73	-0.07	0.845	0.526	1.06	0.899	--
	LTE Band 66(4)	QPSK20M	Left Side	132322	without	1	0	24.0	23.73	-0.09	0.246	0.148	1.06	0.262	--
	LTE Band 66(4)	QPSK20M	Right Side	132322	without	1	0	24.0	23.73	0.07	0.176	0.107	1.06	0.187	--
	LTE Band 66(4)	QPSK20M	Bottom Side	132322	without	1	0	24.0	23.73	-0.02	0.492	0.285	1.06	0.524	--
	LTE Band 66(4)	QPSK20M	Front Face	132072	without	50	24	24.5	23.81	-0.01	0.432	0.27	1.17	0.506	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	50	24	24.5	23.81	-0.11	0.737	0.455	1.17	0.864	--
	LTE Band 66(4)	QPSK20M	Left Side	132072	without	50	24	24.5	23.81	-0.07	0.203	0.126	1.17	0.238	--
	LTE Band 66(4)	QPSK20M	Right Side	132072	without	50	24	24.5	23.81	0.10	0.15	0.0911	1.17	0.176	--
	LTE Band 66(4)	QPSK20M	Bottom Side	132322	without	50	24	24.5	23.81	0.01	0.418	0.242	1.17	0.490	--
52	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	1	0	24.0	23.57	-0.04	0.949	0.586	1.10	1.048	--
	LTE Band 66(4)	QPSK20M	Rear Face	132572	without	1	0	24.0	23.58	0.02	0.819	0.509	1.10	0.902	--
	LTE Band 66(4)	QPSK20M	Rear Face	132322	without	50	24	24.5	23.70	-0.03	0.697	0.433	1.20	0.838	--
	LTE Band 66(4)	QPSK20M	Rear Face	132572	without	50	24	24.5	23.53	-0.15	0.633	0.393	1.25	0.791	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	100	0	23.0	22.55	0.08	0.754	0.468	1.11	0.836	--
	LTE Band 66(4)	QPSK20M	Rear Face	132322	without	100	0	23.0	22.70	-0.02	0.683	0.425	1.07	0.732	--
	LTE Band 66(4)	QPSK20M	Rear Face	132572	without	100	0	23.0	22.61	-0.01	0.65	0.402	1.09	0.711	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	1	0	24.0	23.57	-0.03	0.357	0.229	1.10	0.394	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	with	1	0	24.0	23.73	-0.02	0.497	0.308	1.06	0.529	--
	LTE Band 66(4)	QPSK20M	Rear Face	132072	without	1	0	24.0	23.57	-0.15	0.927	0.573	1.10	1.023	Repeat

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
53	LTE Band 71	QPSK20M	Front Face	133372	without	1	49	25.0	24.55	0.00	0.32	0.249	1.11	0.355	--
	LTE Band 71	QPSK20M	Rear Face	133372	without	1	49	25.0	24.55	0.04	0.38	0.294	1.11	0.421	--
	LTE Band 71	QPSK20M	Left Side	133372	without	1	49	25.0	24.55	-0.01	0.221	0.158	1.11	0.245	--
	LTE Band 71	QPSK20M	Right Side	133372	without	1	49	25.0	24.55	-0.05	0.317	0.227	1.11	0.352	--
	LTE Band 71	QPSK20M	Bottom Side	133372	without	1	49	25.0	24.55	0.03	0.0857	0.0452	1.11	0.095	--
	LTE Band 71	QPSK20M	Front Face	133372	without	50	0	24.0	23.59	-0.04	0.231	0.18	1.10	0.254	--
54	LTE Band 71	QPSK20M	Rear Face	133372	without	50	0	24.0	23.59	-0.03	0.273	0.211	1.10	0.300	--
	LTE Band 71	QPSK20M	Left Side	133372	without	50	0	24.0	23.59	0.02	0.161	0.115	1.10	0.177	--
	LTE Band 71	QPSK20M	Right Side	133372	without	50	0	24.0	23.59	0.01	0.258	0.144	1.10	0.284	--
	LTE Band 71	QPSK20M	Bottom Side	133372	without	50	0	24.0	23.59	0.18	0.0592	0.0313	1.10	0.065	--
	LTE Band 71	QPSK20M	Rear Face	133372	with	1	49	25.0	24.55	-0.03	0.224	0.171	1.11	0.248	--
	55	2.4GHz_Wi-Fi	IEEE 802.11b	Front Face	6	without	--	--	18.0	17.54	-0.08	0.108	0.0544	1.11	0.120
2.4GHz_Wi-Fi		IEEE 802.11b	Rear Face	6	without	--	--	18.0	17.54	0.09	0.125	0.0641	1.11	0.139	--
2.4GHz_Wi-Fi		IEEE 802.11b	Right Side	6	without	--	--	18.0	17.54	0.17	0.0754	0.0384	1.11	0.084	--
2.4GHz_Wi-Fi		IEEE 802.11b	Top Side	6	without	--	--	18.0	17.54	0.04	0.0396	0.0201	1.11	0.044	--
2.4GHz_Wi-Fi		IEEE 802.11b	Rear Face	6	with	--	--	18.0	17.54	0.05	0.0336	0.0181	1.11	0.037	--
56	5GHz_Wi-Fi	IEEE 802.11a	Front Face	48	without	--	--	14.0	13.56	0.10	0.109	0.038	1.11	0.121	--
	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	48	without	--	--	14.0	13.56	0.07	0.159	0.062	1.11	0.176	--
	5GHz_Wi-Fi	IEEE 802.11a	Right Side	48	without	--	--	14.0	13.56	0.02	0.037	0.015	1.11	0.041	--
	5GHz_Wi-Fi	IEEE 802.11a	Top Side	48	without	--	--	14.0	13.56	-0.05	0.106	0.037	1.11	0.117	--
	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	48	with	--	--	14.0	13.56	0.04	0.107	0.045	1.11	0.118	--
56	5GHz_Wi-Fi	IEEE 802.11a	Front Face	60	without	--	--	14.0	13.64	-0.04	0.116	0.045	1.09	0.126	--
	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	60	without	--	--	14.0	13.64	0.14	0.164	0.065	1.09	0.178	--
	5GHz_Wi-Fi	IEEE 802.11a	Right Side	60	without	--	--	14.0	13.64	0.00	0.04	0.018	1.09	0.043	--
	5GHz_Wi-Fi	IEEE 802.11a	Top Side	60	without	--	--	14.0	13.64	-0.04	0.111	0.041	1.09	0.121	--
	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	60	with	--	--	14.0	13.64	0.06	0.111	0.05	1.09	0.121	--

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Plot No.	Band	Mode	Test Position	Channel	External Battery Pack	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)	Note
	5GHz_Wi-Fi	IEEE 802.11a	Front Face	165	without	--	--	14.5	13.90	-0.06	0.133	0.05	1.15	0.153	--
57	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	165	without	--	--	14.5	13.90	-0.09	0.211	0.079	1.15	0.242	--
	5GHz_Wi-Fi	IEEE 802.11a	Right Side	165	without	--	--	14.5	13.90	-0.02	0.041	0.017	1.15	0.047	--
	5GHz_Wi-Fi	IEEE 802.11a	Top Side	165	without	--	--	14.5	13.90	-0.09	0.124	0.041	1.15	0.142	--
	5GHz_Wi-Fi	IEEE 802.11a	Rear Face	165	with	--	--	14.5	13.90	0.05	0.143	0.061	1.15	0.164	--
	2.4GHz_Bluetooth	BR_DH5	Front Face	0	without	--	--	11.0	10.53	-0.04	0.0366	0.0183	1.11	0.041	--
58	2.4GHz_Bluetooth	BR_DH5	Rear Face	0	without	--	--	11.0	10.53	0.04	0.0467	0.0233	1.11	0.052	--
	2.4GHz_Bluetooth	BR_DH5	Right Side	0	without	--	--	11.0	10.53	0.03	0.0276	0.0139	1.11	0.031	--
	2.4GHz_Bluetooth	BR_DH5	Top Side	0	without	--	--	11.0	10.53	-0.10	0.0119	0.00593	1.11	0.013	--
	2.4GHz_Bluetooth	BR_DH5	Rear Face	0	with	--	--	11.0	10.53	0.09	0.0133	0.00719	1.11	0.015	--

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4.5. SAR MEASUREMENT VARIABILITY

4.5.1. Repeated Measurement

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These 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 repeated measurement procedure:

- 1) When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
- 2) When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) 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, perform a second repeated measurement.
- 4) If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Mode	Test Position	Channel	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
Head Exposure Condition										
--	--	--	--	--	--	--	--	--	--	--
Body-worn Exposure Condition										
WCDMA Band IV	RMC12.2K	Rear Face	1312	0.807	0.794	1.0164	N/A	N/A	N/A	N/A
LTE Band 2	QPSK20M	Rear Face	19100	0.892	0.881	1.0125	N/A	N/A	N/A	N/A
LTE Band 7	QPSK20M	Rear Face	20850	0.919	0.915	1.0044	N/A	N/A	N/A	N/A
LTE Band 25	QPSK20M	Rear Face	26590	0.897	0.802	1.1185	N/A	N/A	N/A	N/A
LTE Band 30	QPSK10M	Rear Face	27710	1.03	0.996	1.0341	N/A	N/A	N/A	N/A
LTE Band 66	QPSK20M	Rear Face	132072	0.949	0.927	1.0237	N/A	N/A	N/A	N/A
Hotspot Exposure Condition										
WCDMA Band IV	RMC12.2K	Rear Face	1312	0.807	0.794	1.0164	N/A	N/A	N/A	N/A
LTE Band 2	QPSK20M	Rear Face	19100	0.892	0.881	1.0125	N/A	N/A	N/A	N/A
LTE Band 7	QPSK20M	Rear Face	20850	0.919	0.915	1.0044	N/A	N/A	N/A	N/A
LTE Band 25	QPSK20M	Rear Face	26590	0.897	0.802	1.1185	N/A	N/A	N/A	N/A
LTE Band 30	QPSK10M	Bottom Side	27710	1.04	1.038	1.0019	N/A	N/A	N/A	N/A
LTE Band 66	QPSK20M	Rear Face	132072	0.949	0.927	1.0237	N/A	N/A	N/A	N/A

4.5.2. DUT Holder Perturbations

Depending on antenna locations, buttons locations on phones or device, form factor (e.g. dongles etc.), the measured SAR could be influenced by the relative positions of the test device and its holder.

When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification is required, using the highest SAR configuration among all applicable frequency bands with and without the device holder.

All the measured SAR are less than 1.2 W/kg, so the holder perturbation verification is not required.



4.6. SIMULTANEOUS MULTI-BAND TRANSMISSION EVALUATION

4.6.1. Simultaneous Transmission SAR Test Exclusion Considerations

a) Sum of SAR

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

b) SAR to Peak Location Separation Ratio

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR.

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

The ratio is rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. When 10-g SAR applies, the ratio must be ≤ 0.10 .

SAR_1 and SAR_2 are the highest reported or estimated SAR values for each antenna in the pair, and R_i is the separation distance in mm between the peak SAR locations for the antenna pair

$$\text{peak location separation distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

When SAR is estimated for both antennas, the peak location separation should be determined by the closest physical separation of the antennas, according to the feed-point or geometric center of the antennas.

c) Volume Scan

When the SPLSR is ≤ 0.04 for 1-g SAR and ≤ 0.10 for 10-g SAR, the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

4.6.2. Simultaneous Transmission Possibilities

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous Transmission Configurations	Head (Voice / VoIP)	Body-worn (Voice / VoIP)	Hotspot (Data)
WCDMA (Voice / Data) + WLAN (Data)	Yes	Yes	Yes
LTE (Data) + WLAN (Data)	Yes	Yes	Yes
WCDMA (Voice / Data) + BT (Data)	Yes	Yes	No
LTE (Data) + BT (Data)	Yes	Yes	No

Note:

- 1) The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
- 2) The WLAN and Bluetooth cannot transmit simultaneously, so there is no co-location test requirement for WLAN and Bluetooth.

4.6.3. Max. Standalone SAR

Position		LTE Band SAR-1g(W/kg)											
		2	5	7	12(17)	13	14	25	26	30	41	66(4)	71
Head	Right Cheek	0.368	0.399	0.324	0.385	0.403	0.343	0.401	0.381	0.418	0.189	0.302	0.379
	Right Tilted	0.262	0.313	0.264	0.226	0.240	0.194	0.292	0.239	0.235	0.149	0.217	0.226
	Left Cheek	0.634	0.358	0.744	0.363	0.382	0.312	0.761	0.348	0.481	0.385	0.519	0.365
	Left Tilted	0.354	0.298	0.214	0.207	0.224	0.141	0.447	0.215	0.090	0.097	0.273	0.204
Body-worn	Front Face	0.619	0.339	0.895	0.377	0.235	0.199	0.839	0.311	0.788	0.294	0.529	0.355
	Rear Face	0.974	0.423	1.107	0.464	0.434	0.345	0.959	0.390	1.148	0.662	1.048	0.421
Hotspot	Front Face	0.619	0.339	0.895	0.377	0.235	0.199	0.839	0.311	0.788	0.294	0.529	0.355
	Rear Face	0.974	0.423	1.107	0.464	0.434	0.345	0.959	0.390	1.148	0.662	1.048	0.421
	Left Side	0.464	0.273	0.442	0.089	0.147	0.130	0.536	0.242	0.286	0.246	0.262	0.245
	Right Side	0.139	0.359	0.161	0.118	0.241	0.228	0.164	0.363	0.169	0.075	0.187	0.352
	Top Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom Side	0.520	0.113	0.918	0.087	0.107	0.129	0.653	0.125	1.159	0.395	0.524	0.095

Position		WCDMA Band SAR-1g(W/kg)			WLAN SAR-1g(W/kg)			BT SAR-1g (W/kg)
		II	IV	V	2.4G	5.2G&5.3G	5.8G	2.4G
Head	Right Cheek	0.353	0.368	0.344	0.182	0.501	0.486	0.073
	Right Tilted	0.247	0.193	0.046	0.117	0.500	0.526	0.051
	Left Cheek	0.414	0.444	0.314	0.540	0.553	0.768	0.174
	Left Tilted	0.352	0.272	0.196	0.311	0.466	0.690	0.118
Body-worn	Front Face	0.585	0.731	0.215	0.120	0.126	0.153	0.041
	Rear Face	0.782	0.946	0.387	0.139	0.178	0.242	0.052
Hotspot	Front Face	0.585	0.731	0.215	0.120	0.126	0.153	N/A
	Rear Face	0.782	0.946	0.387	0.139	0.178	0.242	N/A
	Left Side	0.444	0.326	0.177	N/A	N/A	N/A	N/A
	Right Side	0.113	0.136	0.214	0.084	0.043	0.047	N/A
	Top Side	N/A	N/A	N/A	0.044	0.121	0.142	N/A
	Bottom Side	0.574	0.696	0.049	N/A	N/A	N/A	N/A

4.6.4. Sum of SAR
WWAN + WLAN (DTS)

Band	Position											
	Head SAR-1g(W/kg)				Body-worn SAR-1g(W/kg)		Hotspot SAR-1g(W/kg)					
	Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Face	Rear Face	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
LTE Band 2	0.550	0.379	1.174	0.665	0.739	1.113	0.739	1.113	0.464	0.223	0.044	0.520
LTE Band 5	0.581	0.430	0.898	0.609	0.459	0.562	0.459	0.562	0.273	0.443	0.044	0.113
LTE Band 7	0.506	0.381	1.284	0.525	1.015	1.246	1.015	1.246	0.442	0.245	0.044	0.918
LTE Band 12(17)	0.567	0.343	0.903	0.518	0.497	0.603	0.497	0.603	0.089	0.202	0.044	0.087
LTE Band 13	0.585	0.357	0.922	0.535	0.355	0.573	0.355	0.573	0.147	0.325	0.044	0.107
LTE Band 14	0.525	0.311	0.852	0.452	0.319	0.484	0.319	0.484	0.130	0.312	0.044	0.129
LTE Band 25	0.583	0.409	1.301	0.758	0.959	1.098	0.959	1.098	0.536	0.248	0.044	0.653
LTE Band 26	0.563	0.356	0.888	0.526	0.431	0.529	0.431	0.529	0.242	0.447	0.044	0.125
LTE Band 30	0.600	0.352	1.021	0.401	0.908	1.287	0.908	1.287	0.286	0.253	0.044	1.159
LTE Band 41	0.371	0.266	0.925	0.408	0.414	0.801	0.414	0.801	0.246	0.159	0.044	0.395
LTE Band 66(4)	0.484	0.334	1.059	0.584	0.649	1.187	0.649	1.187	0.262	0.271	0.044	0.524
LTE Band 71	0.561	0.343	0.905	0.515	0.475	0.560	0.475	0.560	0.245	0.436	0.044	0.095
WCDMA Band II	0.535	0.364	0.954	0.663	0.705	0.921	0.705	0.921	0.444	0.197	0.044	0.574
WCDMA Band IV	0.550	0.310	0.984	0.583	0.851	1.085	0.851	1.085	0.326	0.220	0.044	0.696
WCDMA Band V	0.526	0.163	0.854	0.507	0.335	0.526	0.335	0.526	0.177	0.298	0.044	0.049
Highest Simultaneous Transmission SAR	1.301				1.287		1.287					

WWAN + WLAN(U-NII)

Band	Position											
	Head SAR-1g(W/kg)				Body-worn SAR-1g(W/kg)		Hotspot SAR-1g(W/kg)					
	Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Face	Rear Face	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
LTE Band 2	0.869	0.788	1.402	1.044	0.772	1.216	0.772	1.216	0.464	0.186	0.142	0.520
LTE Band 5	0.900	0.839	1.126	0.988	0.492	0.665	0.492	0.665	0.273	0.406	0.142	0.113
LTE Band 7	0.825	0.790	1.512	0.904	1.048	1.349	1.048	1.349	0.442	0.208	0.142	0.918
LTE Band 12(17)	0.886	0.752	1.131	0.897	0.530	0.706	0.530	0.706	0.089	0.165	0.142	0.087
LTE Band 13	0.904	0.766	1.150	0.914	0.388	0.676	0.388	0.676	0.147	0.288	0.142	0.107
LTE Band 14	0.844	0.720	1.080	0.831	0.352	0.587	0.352	0.587	0.130	0.275	0.142	0.129
LTE Band 25	0.902	0.818	1.529	1.137	0.992	1.201	0.992	1.201	0.536	0.211	0.142	0.653
LTE Band 26	0.882	0.765	1.116	0.905	0.464	0.632	0.464	0.632	0.242	0.410	0.142	0.125
LTE Band 30	0.919	0.761	1.249	0.780	0.941	1.390	0.941	1.390	0.286	0.216	0.142	1.159
LTE Band 41	0.690	0.675	1.153	0.787	0.447	0.904	0.447	0.904	0.246	0.122	0.142	0.395
LTE Band 66(4)	0.803	0.743	1.287	0.963	0.682	1.290	0.682	1.290	0.262	0.234	0.142	0.524
LTE Band 71	0.880	0.752	1.133	0.894	0.508	0.663	0.508	0.663	0.245	0.399	0.142	0.095
WCDMA Band II	0.854	0.773	1.182	1.042	0.738	1.024	0.738	1.024	0.444	0.160	0.142	0.574
WCDMA Band IV	0.869	0.719	1.212	0.962	0.884	1.188	0.884	1.188	0.326	0.183	0.142	0.696
WCDMA Band V	0.845	0.572	1.082	0.886	0.368	0.629	0.368	0.629	0.177	0.261	0.142	0.049
Highest Simultaneous Transmission	1.529				1.390		1.390					

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WWAN + BT(DSS)

Band	Position											
	Head SAR-1g(W/kg)				Body-worn SAR-1g(W/kg)		Hotspot SAR-1g(W/kg)					
	Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Face	Rear Face	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
LTE Band 2	0.441	0.313	0.808	0.472	0.660	1.026	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 5	0.472	0.364	0.532	0.416	0.380	0.475	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 7	0.397	0.315	0.918	0.332	0.936	1.159	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 12(17)	0.458	0.277	0.537	0.325	0.418	0.516	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 13	0.476	0.291	0.556	0.342	0.276	0.486	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 14	0.416	0.245	0.486	0.259	0.240	0.397	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 25	0.474	0.343	0.935	0.565	0.880	1.011	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 26	0.454	0.290	0.522	0.333	0.352	0.442	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 30	0.491	0.286	0.655	0.208	0.829	1.200	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 41	0.262	0.200	0.559	0.215	0.335	0.714	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 66(4)	0.375	0.268	0.693	0.391	0.570	1.100	N/A	N/A	N/A	N/A	N/A	N/A
LTE Band 71	0.452	0.277	0.539	0.322	0.396	0.473	N/A	N/A	N/A	N/A	N/A	N/A
WCDMA Band II	0.426	0.298	0.588	0.470	0.626	0.834	N/A	N/A	N/A	N/A	N/A	N/A
WCDMA Band IV	0.441	0.244	0.618	0.390	0.772	0.998	N/A	N/A	N/A	N/A	N/A	N/A
WCDMA Band V	0.417	0.097	0.488	0.314	0.256	0.439	N/A	N/A	N/A	N/A	N/A	N/A
Highest Simultaneous Transmission SAR	0.935				1.200		N/A					

*** End of Report ***

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APPENDIX A. SAR PLOTS OF SYSTEM VERIFICATION

The plots for system verification with largest deviation for each SAR system combination are shown as follows.



APPENDIX B. SAR PLOTS OF SAR MEASUREMENT

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.



APPENDIX C. CALIBRATION CERTIFICATE FOR PROBE AND DIPOLE

The calibration certificates are shown as follows.



APPENDIX D. PHOTOGRAPHS OF EUT AND SETUP

The photographs of EUT and setup are shown as follows.

