



**FCC SAR Test Report**

**Report No. : FA282002**

FR1 n41	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	22.82	24.20	1.374	-	-	0.14	0.556	0.764
FR1 n41(EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	20.64	22.20	1.432	-	-	0.07	0.350	0.501
FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 3	518598	2592.99	22.78	24.20	1.387	-	-	-0.17	0.338	0.469
FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	22.78	24.20	1.387	-	-	-0.19	0.543	0.753
FR1 n41	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	22.75	24.20	1.396	-	-	0.09	0.537	0.750
FR1 n41(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 3	DSI 3	518598	2592.99	23.57	24.60	1.268	-	-	0.18	0.173	0.219
FR1 n41(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 3	DSI 3	518598	2592.99	23.57	24.60	1.268	-	-	0.09	0.194	0.246
FR1 n41(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 3	518598	2592.99	23.53	24.60	1.279	-	-	0.1	0.168	0.215
FR1 n41(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 3	518598	2592.99	23.53	24.60	1.279	-	-	0.01	0.190	0.243

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>3500MHz-3900MHz</b>																				
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 2	DSI 3	633332	3499.98	20.95	21.40	1.109	-	-	-0.08	0.314	0.348
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 2	DSI 3	633332	3499.98	20.95	21.40	1.109	-	-	-0.16	0.503	0.558
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 3	633332	3499.98	20.91	21.40	1.119	-	-	0.17	0.323	0.362
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	633332	3499.98	20.91	21.40	1.119	-	-	-0.05	0.511	0.572
74	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	633332	3499.98	23.33	24.40	1.279	50	1.000	-0.05	0.482	<b>0.617</b>
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 2	DSI 3	656000	3840	20.77	21.40	1.156	-	-	-0.02	0.259	0.299
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 2	DSI 3	656000	3840	20.77	21.40	1.156	-	-	0.12	0.343	0.397
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 3	656000	3840	20.74	21.40	1.164	-	-	-0.05	0.258	0.300
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	656000	3840	20.74	21.40	1.164	-	-	-0.13	0.337	0.392
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 4	DSI 3	633332	3499.98	22.37	23.30	1.239	-	-	-0.13	0.067	0.083
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 4	DSI 3	633332	3499.98	22.37	23.30	1.239	-	-	0.13	0.199	0.247
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	633332	3499.98	22.35	23.30	1.245	-	-	0.05	0.070	0.087
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	633332	3499.98	22.35	23.30	1.245	-	-	0.02	0.201	0.250
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 4	DSI 3	656000	3840	22.17	23.30	1.297	-	-	0.11	0.131	0.170
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 4	DSI 3	656000	3840	22.15	23.30	1.303	-	-	-0.02	0.265	0.345
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	656000	3840	22.15	23.30	1.303	-	-	-0.04	0.137	0.179
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	656000	3840	22.15	23.30	1.303	-	-	-0.19	0.278	0.362
	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	656000	3840	25.11	26.30	1.315	50	1.000	0.05	0.257	0.338
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 5	DSI 3	633332	3499.98	21.33	22.00	1.167	-	-	0.11	0.355	0.414
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 5	DSI 3	633332	3499.98	21.33	22.00	1.167	-	-	0.06	0.393	0.459
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	633332	3499.98	21.31	22.00	1.172	-	-	-0.06	0.360	0.422
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633332	3499.98	21.31	22.00	1.172	-	-	0.1	0.408	0.478
	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633332	3499.98	24.36	25.00	1.159	50	1.000	0.02	0.402	0.466
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 5	DSI 3	656000	3840	21.53	22.00	1.114	-	-	-0.09	0.290	0.323
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 5	DSI 3	656000	3840	21.53	22.00	1.114	-	-	-0.14	0.330	0.368
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	656000	3840	21.50	22.00	1.122	-	-	0.1	0.295	0.331
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	656000	3840	21.50	22.00	1.122	-	-	0.11	0.342	0.384
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 6	DSI 3	633332	3499.98	20.53	21.30	1.194	-	-	0.16	0.245	0.293
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 6	DSI 3	633332	3499.98	20.53	21.30	1.194	-	-	0.06	0.294	0.351
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	633332	3499.98	20.49	21.30	1.205	-	-	0.04	0.239	0.288
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	633332	3499.98	20.49	21.30	1.205	-	-	0.1	0.285	0.343
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 6	DSI 3	656000	3840	20.26	21.30	1.271	-	-	-0.15	0.244	0.310
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 6	DSI 3	656000	3840	20.26	21.30	1.271	-	-	-0.15	0.288	0.366
	FR1 n77_PC2	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 6	DSI 3	656000	3840	23.19	24.30	1.291	50	1.000	0.09	0.260	0.336
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	656000	3840	20.25	21.30	1.274	-	-	-0.07	0.229	0.292
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	656000	3840	20.25	21.30	1.274	-	-	0.13	0.275	0.350
	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 2	DSI 3	633332	3499.98	19.61	20.40	1.199	-	-	0.14	0.252	0.302
	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 2	DSI 3	633332	3499.98	19.61	20.40	1.199	-	-	-0.18	0.388	0.465
	FR1 n78_PC2(EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 2	DSI 3	633332	3499.98	22.49	23.40	1.233	50	1.000	-0.06	0.354	0.437
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 3	633332	3499.98	19.59	20.40	1.205	-	-	-0.04	0.247	0.298
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	633332	3499.98	19.59	20.40	1.205	-	-	0.01	0.374	0.451
	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 2	DSI 3	650000	3750	19.48	20.40	1.236	-	-	0.01	0.209	0.258

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	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 2	DSI 3	650000	3750	19.48	20.40	1.236	-	-	0.03	0.306	0.378
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 3	650000	3750	19.39	20.40	1.262	-	-	-0.06	0.216	0.273
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	650000	3750	19.39	20.40	1.262	-	-	0.04	0.324	0.409
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 4	DSI 3	633332	3499.98	22.35	23.30	1.245	-	-	0.01	0.069	0.086
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 4	DSI 3	633332	3499.98	22.35	23.30	1.245	-	-	-0.05	0.209	0.260
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	633332	3499.98	22.32	23.30	1.253	-	-	-0.08	0.070	0.088
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	633332	3499.98	22.32	23.30	1.253	-	-	-0.09	0.205	0.257
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 4	DSI 3	650000	3750	21.97	23.30	1.358	-	-	0.06	0.120	0.163
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 4	DSI 3	650000	3750	21.97	23.30	1.358	-	-	0.1	0.285	0.387
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	650000	3750	21.94	23.30	1.368	-	-	-0.09	0.121	0.165
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	650000	3750	21.94	23.30	1.368	-	-	0.16	0.302	0.413
	FR1 n78_PC2(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	650000	3750	24.97	26.30	1.358	50	1.000	-0.07	0.289	0.393
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 5	DSI 3	633332	3499.98	22.39	23.00	1.151	-	-	-0.1	0.418	0.481
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 5	DSI 3	633332	3499.98	22.39	23.00	1.151	-	-	0.13	0.528	0.608
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	633332	3499.98	22.35	23.00	1.161	-	-	0.14	0.422	0.490
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633332	3499.98	22.35	23.00	1.161	-	-	-0.05	0.529	0.614
75	FR1 n78_PC2(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633332	3499.98	25.36	26.00	1.159	50	1.000	-0.09	0.541	<b>0.627</b>
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 5	DSI 3	650000	3750	22.28	23.00	1.180	-	-	0.14	0.415	0.490
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 5	DSI 3	650000	3750	22.28	23.00	1.180	-	-	-0.17	0.439	0.518
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	650000	3750	22.23	23.00	1.194	-	-	0.01	0.325	0.388
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	650000	3750	22.23	23.00	1.194	-	-	0.05	0.443	0.529
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 6	DSI 3	633332	3499.98	20.51	21.30	1.199	-	-	0.03	0.216	0.259
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 6	DSI 3	633332	3499.98	20.51	21.30	1.199	-	-	-0.05	0.305	0.366
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	633332	3499.98	20.47	21.30	1.211	-	-	0.08	0.224	0.271
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	633332	3499.98	20.47	21.30	1.211	-	-	-0.12	0.320	0.387
	FR1 n78_PC2(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	633332	3499.98	23.48	24.30	1.208	50	1.000	-0.06	0.295	0.356
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Front	15mm	Ant 6	DSI 3	650000	3750	20.42	21.30	1.225	-	-	-0.03	0.240	0.294
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	1	137	DFT-30	Back	15mm	Ant 6	DSI 3	650000	3750	20.42	21.30	1.225	-	-	0.08	0.276	0.338
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	650000	3750	20.32	21.30	1.253	-	-	0.07	0.226	0.283
	FR1 n78_PC3(SA/EN-DC)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	650000	3750	20.32	21.30	1.253	-	-	-0.1	0.266	0.333



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
<b>2450MHz</b>																
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 7	Full	78	2480	15.82	17.00	1.312	76.73	1.303	-0.04	0.016	0.028
76	Bluetooth	DH5 1Mbps	Back	15mm	Ant 7	Full	78	2480	15.82	17.00	1.312	76.73	1.303	0.01	0.058	<b>0.099</b>
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7	Full	1	2412	17.93	19.50	1.435	99.6	1.004	-0.08	0.031	0.045
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7	Full	1	2412	17.93	19.50	1.435	99.6	1.004	-0.03	0.110	0.159
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7	Simultaneous	1	2412	13.32	14.50	1.312	99.6	1.004	0.05	0.006	0.008
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7	Simultaneous	1	2412	13.32	14.50	1.312	99.6	1.004	0.11	0.031	0.040
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 8	Full	1	2412	18.38	19.50	1.294	99.6	1.004	-0.09	0.099	0.129
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 8	Full	1	2412	18.38	19.50	1.294	99.6	1.004	0.04	0.174	0.226
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 8	Simultaneous	1	2412	13.49	14.50	1.262	99.6	1.004	0.01	0.033	0.042
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 8	Simultaneous	1	2412	13.49	14.50	1.262	99.6	1.004	0.04	0.057	0.072
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7+8	Full	1	2412	21.17	22.50	1.358	99.6	1.004	0.13	0.101	0.138
77	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+8	Full	1	2412	21.17	22.50	1.358	99.6	1.004	-0.04	0.335	<b>0.457</b>
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7+8	Simultaneous	1	2412	16.42	17.50	1.283	99.6	1.004	0.08	0.035	0.045
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+8	Simultaneous	1	2412	16.42	17.50	1.283	99.6	1.004	0.04	0.096	0.124
<b>5000MHz--6000MHz</b>																
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 8	Standalone	54	5270	15.88	17.50	1.452	93.32	1.072	-0.16	0.061	0.095
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 8	Standalone	54	5270	15.88	17.50	1.452	93.32	1.072	0.03	0.117	0.182
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 8	Simultaneous	54	5270	11.05	12.50	1.396	93.32	1.072	0.02	0.021	0.031
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 8	Simultaneous	54	5270	11.05	12.50	1.396	93.32	1.072	0.04	0.038	0.057
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 7+8	Standalone	54	5270	18.78	20.50	1.485	93.32	1.072	-0.02	0.135	0.215
78	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8	Standalone	54	5270	18.78	20.50	1.485	93.32	1.072	-0.05	0.445	<b>0.709</b>
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 7+8	Simultaneous	54	5270	13.78	15.50	1.488	93.32	1.072	0.02	0.043	0.069
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8	Simultaneous	54	5270	13.78	15.50	1.488	93.32	1.072	-0.05	0.144	0.230
	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 8	Full	100	5500	15.56	16.00	1.107	96.78	1.033	-0.08	0.094	0.107
	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 8	Full	100	5500	15.56	16.00	1.107	96.78	1.033	-0.03	0.128	0.146
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 8	Simultaneous	122	5610	13.38	14.00	1.153	88.19	1.134	-0.13	0.059	0.077
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 8	Simultaneous	122	5610	13.38	14.00	1.153	88.19	1.134	-0.09	0.073	0.095
	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 7+8	Full	100	5500	18.06	18.50	1.107	96.78	1.033	-0.02	0.087	0.099
79	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 7+8	Full	100	5500	18.06	18.50	1.107	96.78	1.033	-0.04	0.258	<b>0.295</b>
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8	Simultaneous	122	5610	16.07	17.00	1.240	88.19	1.134	0.09	0.059	0.083
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8	Simultaneous	122	5610	16.07	17.00	1.240	88.19	1.134	0.06	0.174	0.245
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 8	Standalone	155	5775	16.23	17.50	1.340	88.19	1.134	0.01	0.091	0.138
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 8	Standalone	155	5775	16.23	17.50	1.340	88.19	1.134	0.09	0.105	0.160
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 8	Simultaneous	155	5775	9.66	11.00	1.361	88.19	1.134	-0.05	0.019	0.030
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 8	Simultaneous	155	5775	9.66	11.00	1.361	88.19	1.134	-0.13	0.023	0.036
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8	Standalone	155	5775	19.14	20.50	1.368	88.19	1.134	0.04	0.191	0.296
80	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8	Standalone	155	5775	19.14	20.50	1.368	88.19	1.134	0.11	0.413	<b>0.641</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8	Simultaneous	155	5775	12.65	14.00	1.364	88.19	1.134	-0.04	0.047	0.073
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8	Simultaneous	155	5775	12.65	14.00	1.364	88.19	1.134	0.09	0.097	0.150



15.4 Product Specific SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
<b>1750MHz</b>																			
81	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	1413	1732.6	20.20	21.00	1.202	0.09	2.000	2.405	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	1312	1712.4	20.18	21.00	1.208	0.04	2.100	2.536	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	1513	1752.6	20.19	21.00	1.205	0.02	1.980	2.386	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	1413	1732.6	20.20	21.00	1.202	-0.18	1.650	1.984	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 3	1413	1732.6	24.36	25.00	1.159	-0.15	0.577	0.669	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	15mm	Ant 0	DSI 3	1413	1732.6	24.36	25.00	1.159	-0.19	0.569	0.659	
82	LTE Band 4	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 1	20175	1732.5	18.19	19.00	1.205	-0.06	1.210	1.458	
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	20175	1732.5	21.74	22.50	1.191	0.1	0.285	0.340	
	LTE Band 4	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	20175	1732.5	18.12	19.00	1.225	0.12	1.260	1.543	
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI 3	20175	1732.5	21.65	22.50	1.216	-0.08	0.292	0.355	
	LTE Band 4	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	20175	1732.5	19.52	20.60	1.282	0.01	1.650	2.116	
	LTE Band 4	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	20175	1732.5	19.52	20.60	1.282	-0.1	1.940	2.488	
	LTE Band 4	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	20175	1732.5	22.38	23.60	1.324	-0.19	1.560	2.066	
	LTE Band 4	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	20175	1732.5	22.38	23.60	1.324	-0.13	1.850	2.450	
	LTE Band 4	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	20175	1732.5	19.51	20.60	1.285	0.01	1.690	2.172	
	LTE Band 4	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	20175	1732.5	19.51	20.60	1.285	0.08	1.990	2.558	
	LTE Band 4	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	20175	1732.5	22.33	23.60	1.340	0.06	1.610	2.157	
	LTE Band 4	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	20175	1732.5	22.33	23.60	1.340	0.03	1.880	2.519	
	LTE Band 4	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 1	20175	1732.5	19.42	20.60	1.312	-0.18	1.640	2.152	
	LTE Band 4	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 1	20175	1732.5	19.42	20.60	1.312	0.04	1.920	2.519	
	LTE Band 4	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	20175	1732.5	21.34	22.10	1.191	-0.19	0.961	1.145	
	LTE Band 4	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	20175	1732.5	24.69	25.60	1.233	0.1	0.944	1.164	
	LTE Band 4	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	20175	1732.5	21.24	22.10	1.219	0.19	0.987	1.203	
	LTE Band 4	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	20175	1732.5	23.66	24.60	1.242	-0.13	0.962	1.194	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 1	132322	1745	20.65	21.50	1.216	0.05	1.940	2.359	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 1	132072	1720	20.51	21.50	1.256	0	1.970	2.474	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 1	132572	1770	20.49	21.50	1.262	-0.11	1.910	2.410	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	132322	1745	20.65	21.50	1.216	0.14	1.630	1.982	
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	132072	1720	24.40	25.50	1.288	-0.11	0.535	0.689	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 0	DSI 3	132322	1745	24.56	25.50	1.242	-0.18	0.516	0.641	
LTE Band 66(EN-DC)	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	132072	1720	20.87	22.70	1.524	0.06	0.193	0.294		
LTE Band 66(EN-DC)	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 0	DSI 3	132322	1745	20.91	22.70	1.510	0.13	0.189	0.285		
LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	132322	1745	20.52	21.50	1.253	-0.04	1.990	2.494		
LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	132072	1720	20.46	21.50	1.271	0.11	2.020	2.567		
LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	132572	1770	20.41	21.50	1.285	-0.06	1.960	2.519		
LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	132322	1745	20.52	21.50	1.253	-0.09	1.710	2.143		
LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	132072	1720	20.46	21.50	1.271	-0.17	1.630	2.071		
LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	132572	1770	20.41	21.50	1.285	-0.19	1.740	2.236		
LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI 3	132072	1720	23.51	24.50	1.256	0.11	0.452	0.568		
LTE Band 66	20M	QPSK	50	0	-	Bottom Side	15mm	Ant 0	DSI 3	132572	1770	23.57	24.50	1.239	-0.19	0.448	0.555		
LTE Band 66(EN-DC)	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	132072	1720	18.08	19.70	1.452	-0.02	0.904	1.313		
LTE Band 66(EN-DC)	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	132572	1770	18.07	19.70	1.455	0.06	0.727	1.058		
LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 1	132322	1745	20.37	21.50	1.297	-0.18	1.950	2.529		
LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 1	132322	1745	20.37	21.50	1.297	0.18	1.670	2.166		
LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	132322	1745	19.48	20.50	1.265	-0.15	1.600	2.024		
LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	132072	1720	19.45	20.50	1.274	0.03	1.720	2.190		
LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	132572	1770	19.45	20.50	1.274	0.11	1.680	2.139		
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	132322	1745	19.48	20.50	1.265	-0.14	1.830	2.314		
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	132072	1720	19.45	20.50	1.274	-0.12	1.930	2.458		
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	132572	1770	19.45	20.50	1.274	0.19	1.910	2.432		



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	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	132072	1720	22.32	23.50	1.312	-0.18	1.650	2.165
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	132072	1720	22.32	23.50	1.312	-0.09	1.870	2.454
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	132322	1745	19.47	20.50	1.268	0.18	1.660	2.104
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	132072	1720	19.37	20.50	1.297	-0.14	1.750	2.270
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	132572	1770	19.44	20.50	1.276	0.09	1.720	2.195
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	132322	1745	19.47	20.50	1.268	-0.13	1.860	2.358
83	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	132072	1720	19.37	20.50	1.297	0.05	2.000	2.594
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	132572	1770	19.44	20.50	1.276	0.08	1.960	2.502
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	132072	1720	22.27	23.50	1.327	-0.14	1.690	2.243
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	132072	1720	22.27	23.50	1.327	-0.12	1.930	2.562
	LTE Band 66(EN-DC)	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	132072	1720	19.49	20.50	1.262	0.03	0.600	0.757
	LTE Band 66(EN-DC)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	132072	1720	19.49	20.50	1.262	-0.02	0.715	0.902
	LTE Band 66(EN-DC)	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	132072	1720	22.53	23.50	1.250	0.03	0.212	0.265
	LTE Band 66(EN-DC)	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	132072	1720	22.53	23.50	1.250	-0.05	0.231	0.289
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 1	132322	1745	19.45	20.50	1.274	-0.09	1.610	2.050
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 1	132322	1745	19.45	20.50	1.274	-0.18	1.750	2.229
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	132322	1745	22.89	23.70	1.205	-0.09	1.850	2.229
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	132072	1720	22.67	23.70	1.268	0.02	1.900	2.409
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	132572	1770	22.75	23.70	1.245	0.08	1.760	2.190
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	132072	1720	24.61	25.70	1.285	0.1	1.160	1.491
	LTE Band 66(EN-DC)	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	132072	1720	23.09	24.20	1.291	-0.08	0.154	0.199
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	132322	1745	22.85	23.70	1.216	-0.04	1.890	2.299
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	132072	1720	22.67	23.70	1.268	0.02	1.960	2.485
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	132572	1770	22.73	23.70	1.250	-0.06	1.840	2.300
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	132072	1720	23.71	24.70	1.256	0.11	0.923	1.159
	LTE Band 66(EN-DC)	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	132072	1720	21.34	22.20	1.219	0.16	0.881	1.074
	LTE Band 66	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	DSI 1	132322	1745	22.77	23.70	1.239	0.05	1.830	2.267
	FR1 n66	40M	QPSK	1	108	DFT-15	Back	0mm	Ant 0	DSI 1	349000	1745	19.77	21.00	1.327	0.1	1.780	2.363
	FR1 n66	40M	QPSK	1	108	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	349000	1745	19.77	21.00	1.327	0.14	1.600	2.124
	FR1 n66	40M	QPSK	1	108	DFT-15	Back	15mm	Ant 0	DSI 3	349000	1745	24.42	25.50	1.282	-0.14	0.472	0.605
	FR1 n66	40M	QPSK	1	108	DFT-15	Bottom Side	15mm	Ant 0	DSI 3	349000	1745	24.42	25.50	1.282	-0.04	0.465	0.596
84	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 1	349000	1745	19.75	21.00	1.334	0.09	1.800	2.400
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	349000	1745	19.75	21.00	1.334	0.1	1.620	2.160
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 0	DSI 3	349000	1745	24.36	25.50	1.300	0.12	0.486	0.632
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	15mm	Ant 0	DSI 3	349000	1745	24.36	25.50	1.300	-0.1	0.473	0.615
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 1	349000	1745	16.84	18.00	1.306	-0.13	0.866	1.131
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	349000	1745	16.84	18.00	1.306	-0.15	0.755	0.986
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 0	DSI 3	349000	1745	21.84	23.00	1.306	-0.09	0.265	0.346
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Bottom Side	15mm	Ant 0	DSI 3	349000	1745	21.84	23.00	1.306	-0.11	0.258	0.337
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI 1	349000	1745	19.73	21.00	1.340	0.19	1.750	2.344
	FR1 n66	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	349000	1745	19.73	21.00	1.340	-0.05	1.570	2.103
	FR1 n66	40M	QPSK	1	108	DFT-15	Back	0mm	Ant 1	DSI 1	349000	1745	19.17	20.10	1.239	-0.1	1.310	1.623
	FR1 n66	40M	QPSK	1	108	DFT-15	Top Side	0mm	Ant 1	DSI 1	349000	1745	19.17	20.10	1.239	0.04	1.740	2.156
	FR1 n66	40M	QPSK	1	108	DFT-15	Back	5mm	Ant 1	DSI 3	349000	1745	22.70	23.60	1.230	0.15	1.280	1.575
	FR1 n66	40M	QPSK	1	108	DFT-15	Top Side	5mm	Ant 1	DSI 3	349000	1745	22.70	23.60	1.230	-0.1	1.700	2.091
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 1	349000	1745	19.14	20.10	1.247	0.09	1.350	1.684
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI 1	349000	1745	19.14	20.10	1.247	-0.15	1.770	2.208
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI 3	349000	1745	22.69	23.60	1.233	-0.04	1.320	1.628
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 1	DSI 3	349000	1745	22.69	23.60	1.233	-0.13	1.770	2.183
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 1	349000	1745	16.21	17.10	1.227	0.09	0.675	0.829
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI 1	349000	1745	16.21	17.10	1.227	-0.18	0.875	1.074
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI 3	349000	1745	19.64	20.60	1.247	-0.04	0.657	0.820
	FR1 n66(EN-DC)	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 1	DSI 3	349000	1745	19.64	20.60	1.247	0.15	0.831	1.037
	FR1 n66	40M	QPSK	216	0	DFT-15	Top Side	0mm	Ant 1	DSI 1	349000	1745	19.13	20.10	1.250	0.05	1.720	2.150
<b>1900MHz</b>																		
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9400	1880	21.51	22.00	1.119	0.05	1.840	2.060



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	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9262	1852.4	21.43	22.00	1.140	-0.01	1.800	2.052
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9538	1907.6	21.50	22.00	1.122	0.1	1.860	2.087
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	15mm	Ant 0	DSI 3	9538	1907.6	23.89	24.50	1.151	-0.11	0.476	0.548
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSI 1	9400	1880	22.59	23.50	1.233	-0.06	1.890	2.331
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSI 1	9262	1852.4	22.58	23.50	1.236	0	1.610	1.990
85	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSI 1	9538	1907.6	22.53	23.50	1.250	0.15	2.020	2.526
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 2	DSI 3	9538	1907.6	23.93	25.00	1.279	-0.13	1.170	1.497
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	22.01	22.50	1.119	-0.12	2.020	2.261
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	18700	1860	21.91	22.50	1.146	0.19	1.980	2.268
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	19100	1900	21.74	22.50	1.191	-0.08	1.940	2.311
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 0	DSI 3	18900	1880	23.16	24.00	1.213	-0.18	0.357	0.433
86	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	21.96	22.50	1.132	0.15	2.080	2.355
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	18700	1860	21.86	22.50	1.159	0.06	2.010	2.329
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	19100	1900	21.70	22.50	1.202	0.14	1.890	2.272
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	15mm	Ant 0	DSI 3	18900	1880	22.15	23.00	1.216	-0.12	0.294	0.358
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	21.88	22.50	1.153	0.11	1.940	2.238
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	18900	1880	16.66	17.70	1.271	0.03	1.170	1.487
	LTE Band 2	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	18900	1880	19.25	20.20	1.245	0.11	1.080	1.344
	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	18900	1880	16.65	17.70	1.274	0.01	1.260	1.605
	LTE Band 2	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	18900	1880	19.17	20.20	1.268	0.01	1.130	1.432
	LTE Band 2(EN-DC/UL-CA)	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	18900	1880	15.79	16.50	1.178	0.12	1.010	1.189
	LTE Band 2(EN-DC/UL-CA)	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	18900	1880	18.08	19.00	1.236	0.03	0.880	1.088



# FCC SAR Test Report

Report No. : FA282002

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
<b>2600MHz</b>																				
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	21100	2535	17.59	18.20	1.151	-	-	0.04	0.791	0.910
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	21100	2535	17.59	18.20	1.151	-	-	0.05	0.903	1.039
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	21100	2535	21.59	22.20	1.151	-	-	-0.09	0.776	0.893
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	21100	2535	21.59	22.20	1.151	-	-	0.07	0.785	0.903
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	21100	2535	17.53	18.20	1.167	-	-	0.01	0.884	1.031
	LTE Band 7(EN-DC/UL-CA)	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	21100	2535	18.68	19.00	1.076	-	-	0.04	0.992	1.068
	LTE Band 7(EN-DC/UL-CA)	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	21100	2535	18.68	19.00	1.076	-	-	0.08	1.160	1.249
	LTE Band 7(EN-DC/UL-CA)	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	21100	2535	22.44	23.00	1.138	-	-	-0.09	0.845	0.961
	LTE Band 7(EN-DC/UL-CA)	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	21100	2535	22.44	23.00	1.138	-	-	0.14	0.857	0.975
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	21100	2535	17.57	18.20	1.156	-	-	-0.06	0.785	0.908
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	21100	2535	17.57	18.20	1.156	-	-	-0.11	0.894	1.034
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	21100	2535	21.55	22.20	1.161	-	-	0.05	0.765	0.889
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	21100	2535	21.55	22.20	1.161	-	-	0.13	0.773	0.898
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	19.45	20.60	1.303	-	-	0.03	1.500	1.955
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	21100	2535	19.45	20.60	1.303	-	-	0.04	1.660	2.163
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	20850	2510	19.29	20.60	1.352	-	-	0.01	1.510	2.042
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	21350	2560	19.27	20.60	1.358	-	-	0.08	1.590	2.160
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	24.68	25.60	1.236	-	-	-0.08	1.560	1.928
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	24.68	25.60	1.236	-	-	-0.09	1.430	1.767
	LTE Band 7(EN-DC)	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	23.75	25.50	1.496	-	-	-0.02	0.632	0.946
	LTE Band 7(EN-DC)	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	23.75	25.50	1.496	-	-	0.03	0.621	0.929
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	19.44	20.60	1.306	-	-	-0.17	1.590	2.077
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	20850	2510	19.32	20.60	1.343	-	-	-0.01	1.540	2.068
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21350	2560	19.31	20.60	1.346	-	-	-0.09	1.370	1.844
87	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	21100	2535	19.44	20.60	1.306	-	-	0.06	1.750	<b>2.286</b>
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	20850	2510	19.32	20.60	1.343	-	-	0.19	1.540	2.068
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	21350	2560	19.31	20.60	1.346	-	-	0.13	1.670	2.248
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	21100	2535	23.73	24.60	1.222	-	-	0.1	1.270	1.552
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	21100	2535	23.73	24.60	1.222	-	-	0.19	1.160	1.417
	LTE Band 7C	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	21100	2535	19.41	20.60	1.315	-	-	0.11	1.610	2.118
	LTE Band 7(EN-DC)	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	18.65	20.50	1.531	-	-	0.02	0.889	1.361
	LTE Band 7(EN-DC)	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	21100	2535	18.65	20.50	1.531	-	-	0.16	1.110	1.700
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	19.38	20.60	1.324	-	1.000	-0.18	1.430	1.894
	LTE Band 7	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	DSI 1	21100	2535	19.38	20.60	1.324	-	1.000	0.05	1.650	2.185
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	38000	2595	21.49	22.70	1.321	62.9	1.006	0.07	1.610	2.140
	LTE Band 38	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	38000	2595	21.49	22.70	1.321	62.9	1.006	-0.15	1.800	2.393
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	38000	2595	24.54	25.70	1.306	62.9	1.006	-0.13	1.160	1.524
	LTE Band 38	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	38000	2595	24.54	25.70	1.306	62.9	1.006	-0.08	1.100	1.445
	LTE Band 38(EN-DC)	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	38000	2595	21.45	22.70	1.334	62.9	1.006	-0.13	0.838	1.124
	LTE Band 38(EN-DC)	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	38000	2595	21.45	22.70	1.334	62.9	1.006	-0.09	0.822	1.103
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	38000	2595	21.41	22.70	1.346	62.9	1.006	0.11	1.660	2.248
88	LTE Band 38	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	38000	2595	21.41	22.70	1.346	62.9	1.006	-0.02	1.840	<b>2.491</b>
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	38000	2595	23.60	24.70	1.288	62.9	1.006	-0.06	0.924	1.197
	LTE Band 38	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	38000	2595	23.60	24.70	1.288	62.9	1.006	-0.05	0.898	1.164
	LTE Band 38C	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	37901	2585.1	21.37	22.70	1.358	62.9	1.006	0.17	1.520	2.077
	LTE Band 38(EN-DC)	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	38000	2595	16.93	18.20	1.340	62.9	1.006	0.15	0.911	1.228
	LTE Band 38(EN-DC)	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	38000	2595	16.93	18.20	1.340	62.9	1.006	0.14	0.992	1.337
	LTE Band 38	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 1	38000	2595	21.34	22.70	1.368	62.9	1.006	0.18	1.570	2.160
	LTE Band 38	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	DSI 1	38000	2595	21.34	22.70	1.368	62.9	1.006	0.18	1.790	2.463
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	40620	2593	23.07	24.00	1.239	62.9	1.006	-0.16	1.850	2.306
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	39750	2506	23.01	24.00	1.256	62.9	1.006	-0.06	1.380	1.744
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	40185	2549.5	22.95	24.00	1.274	62.9	1.006	0.11	1.000	1.281



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	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	41055	2636.5	22.71	24.00	1.346	62.9	1.006	-0.08	1.860	2.518
89	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	41490	2680	22.92	24.00	1.282	62.9	1.006	-0.06	1.980	<b>2.554</b>
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	41490	2680	23.96	25.00	1.271	62.9	1.006	-0.1	1.020	1.304
	LTE Band 41C	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	41490 +41292	2680 +2660.2	22.98	24.00	1.265	62.9	1.006	-0.09	1.790	2.277
	LTE Band 41(EN-DC)	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	41490	2680	18.36	19.00	1.159	62.9	1.006	0.05	0.873	1.018
	LTE Band 41(EN-DC)	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	41490	2680	19.94	20.50	1.138	62.9	1.006	-0.09	0.565	0.647
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	40620	2593	23.05	24.00	1.245	62.9	1.006	0.14	1.790	2.241
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	39750	2506	22.99	24.00	1.262	62.9	1.006	0.1	1.270	1.612
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	40185	2549.5	22.85	24.00	1.303	62.9	1.006	0.16	0.970	1.272
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	41055	2636.5	22.69	24.00	1.352	62.9	1.006	-0.05	1.810	2.462
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	41490	2680	22.82	24.00	1.312	62.9	1.006	0.18	1.890	2.495
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3	41490	2680	22.84	24.00	1.306	62.9	1.006	-0.1	0.814	1.070
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 1	40620	2593	23.03	24.00	1.250	62.9	1.006	-0.04	1.730	2.176
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	40620	2593	19.57	20.70	1.297	62.9	1.006	0.03	0.981	1.280
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	40620	2593	19.57	20.70	1.297	62.9	1.006	0.11	1.180	1.540
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	39750	2506	19.42	20.70	1.343	62.9	1.006	0.07	1.010	1.364
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	40185	2549.5	19.24	20.70	1.400	62.9	1.006	0.09	1.140	1.605
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	41055	2636.5	19.46	20.70	1.330	62.9	1.006	0.01	1.600	2.141
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 1	41490	2680	19.46	20.70	1.330	62.9	1.006	-0.05	1.830	2.449
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	40620	2593	24.62	25.70	1.282	62.9	1.006	0.03	1.130	1.458
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	41490	2680	24.59	25.70	1.291	62.9	1.006	0.09	1.850	2.403
	LTE Band 41(EN-DC)	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3	40620	2593	20.85	22.10	1.334	62.9	1.006	-0.16	0.761	1.021
	LTE Band 41(EN-DC)	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3	41490	2680	20.74	22.10	1.368	62.9	1.006	0.18	0.901	1.240
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	40620	2593	19.53	20.70	1.309	62.9	1.006	0.05	1.020	1.343
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	40620	2593	19.53	20.70	1.309	62.9	1.006	0.03	1.230	1.620
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	39750	2506	19.45	20.70	1.334	62.9	1.006	-0.02	1.060	1.422
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	40185	2549.5	19.29	20.70	1.384	62.9	1.006	-0.01	1.240	1.726
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	41055	2636.5	19.42	20.70	1.343	62.9	1.006	-0.16	1.660	2.242
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	41490	2680	19.49	20.70	1.321	62.9	1.006	-0.06	1.900	2.526
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3	40620	2593	23.69	24.70	1.262	62.9	1.006	0.04	0.852	1.082
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3	41490	2680	23.67	24.70	1.268	62.9	1.006	-0.06	1.430	1.824
	LTE Band 41C	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	41490 +41292	2680 +2660.2	19.43	20.70	1.340	62.9	1.006	0.13	1.830	2.466
	LTE Band 41(EN-DC)	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	40620	2593	17.18	18.60	1.387	62.9	1.006	0.06	0.972	1.356
	LTE Band 41(EN-DC)	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 1	41490	2680	17.11	18.60	1.409	62.9	1.006	0.17	1.110	1.574
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	DSI 1	40620	2593	19.34	20.70	1.368	62.9	1.006	0.02	1.160	1.596
	FR1 n7	50M	QPSK	1	135	DFT-15	Top Side	0mm	Ant 1	DSI 1	507000	2535	20.39	21.60	1.321	-	-	0.01	1.660	2.193
	FR1 n7	50M	QPSK	1	135	DFT-15	Top Side	5mm	Ant 1	DSI 3	507000	2535	23.72	25.10	1.374	-	-	-0.09	1.200	1.649
90	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	0mm	Ant 1	DSI 1	507000	2535	20.31	21.60	1.346	-	-	0.06	1.860	<b>2.503</b>
	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	5mm	Ant 1	DSI 3	507000	2535	23.68	25.10	1.387	-	-	-0.16	1.350	1.872
	FR1 n7(EN-DC)	50M	QPSK	135	68	DFT-15	Top Side	0mm	Ant 1	DSI 1	507000	2535	18.21	19.60	1.377	-	-	-0.11	1.160	1.598
	FR1 n7(EN-DC)	50M	QPSK	135	68	DFT-15	Top Side	5mm	Ant 1	DSI 3	507000	2535	21.80	23.10	1.349	-	-	0.17	0.922	1.244
	FR1 n7	50M	QPSK	270	0	DFT-15	Top Side	0mm	Ant 1	DSI 1	507000	2535	20.21	21.60	1.377	-	-	0.01	1.720	2.369
	FR1 n7	50M	QPSK	1	135	DFT-15	Back	0mm	Ant 2	DSI 1	507000	2535	20.17	21.70	1.422	-	-	-0.06	1.420	2.020
	FR1 n7	50M	QPSK	1	135	DFT-15	Left Side	0mm	Ant 2	DSI 1	507000	2535	20.17	21.70	1.422	-	-	0.16	1.610	2.290
	FR1 n7	50M	QPSK	1	135	DFT-15	Back	5mm	Ant 2	DSI 3	507000	2535	23.62	25.20	1.439	-	-	-0.16	1.270	1.827
	FR1 n7	50M	QPSK	1	135	DFT-15	Left Side	5mm	Ant 2	DSI 3	507000	2535	23.62	25.20	1.439	-	-	-0.12	1.180	1.698
	FR1 n7(EN-DC)	50M	QPSK	1	135	DFT-15	Back	5mm	Ant 2	DSI 3	507000	2535	20.43	22.20	1.503	-	-	-0.16	0.619	0.930
	FR1 n7(EN-DC)	50M	QPSK	1	135	DFT-15	Left Side	5mm	Ant 2	DSI 3	507000	2535	20.43	22.20	1.503	-	-	-0.12	0.586	0.881
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	0mm	Ant 2	DSI 1	507000	2535	20.16	21.70	1.426	-	-	0.13	1.510	2.153
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Side	0mm	Ant 2	DSI 1	507000	2535	20.16	21.70	1.426	-	-	-0.12	1.690	2.409
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 2	DSI 3	507000	2535	23.52	25.20	1.472	-	-	-0.05	1.240	1.826
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Side	5mm	Ant 2	DSI 3	507000	2535	23.52	25.20	1.472	-	-	0.16	1.140	1.678
	FR1 n7(EN-DC)	50M	QPSK	135	68	DFT-15	Back	0mm	Ant 2	DSI 1	507000	2535	17.00	18.70	1.479	-	-	0.13	0.806	1.192
	FR1 n7(EN-DC)	50M	QPSK	135	68	DFT-15	Left Side	0mm	Ant 2	DSI 1	507000	2535	17.00	18.70	1.479	-	-	0.07	0.880	1.302
	FR1 n7	50M	QPSK	270	0	DFT-15	Back	0mm	Ant 2	DSI 1	507000	2535	20.11	21.70	1.442	-	-	-0.11	1.450	2.091
	FR1 n7	50M	QPSK	270	0	DFT-15	Left Side	0mm	Ant 2	DSI 1	507000	2535	20.11	21.70	1.442	-	-	-0.04	1.640	2.365

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	FR1 n38	40M	QPSK	1	53	DFT-30	Back	0mm	Ant 2	DSI 1	519000	2595	18.75	20.20	1.396	-	-	0.15	1.260	1.759
	FR1 n38	40M	QPSK	1	53	DFT-30	Left Side	0mm	Ant 2	DSI 1	519000	2595	18.75	20.20	1.396	-	-	-0.06	1.650	2.304
	FR1 n38	40M	QPSK	1	53	DFT-30	Back	5mm	Ant 2	DSI 3	519000	2595	23.28	24.70	1.387	-	-	0.15	1.200	1.664
	FR1 n38	40M	QPSK	1	53	DFT-30	Left Side	5mm	Ant 2	DSI 3	519000	2595	23.28	24.70	1.387	-	-	0.02	1.160	1.609
	FR1 n38(EN-DC)	40M	QPSK	1	53	DFT-30	Back	5mm	Ant 2	DSI 3	519000	2595	20.47	22.20	1.489	-	-	0.15	0.631	0.940
	FR1 n38(EN-DC)	40M	QPSK	1	53	DFT-30	Left Side	5mm	Ant 2	DSI 3	519000	2595	20.47	22.20	1.489	-	-	0.02	0.617	0.919
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 2	DSI 1	519000	2595	18.71	20.20	1.409	-	-	0.15	1.310	1.846
91	FR1 n38	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 2	DSI 1	519000	2595	18.71	20.20	1.409	-	-	-0.05	1.760	2.480
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 2	DSI 3	519000	2595	23.27	24.70	1.390	-	-	-0.03	1.180	1.640
	FR1 n38	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 2	DSI 3	519000	2595	23.27	24.70	1.390	-	-	-0.06	1.140	1.585
	FR1 n38(EN-DC)	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 2	DSI 1	519000	2595	15.65	17.20	1.429	-	-	0.15	0.659	0.942
	FR1 n38(EN-DC)	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 2	DSI 1	519000	2595	15.65	17.20	1.429	-	-	-0.08	0.882	1.260
	FR1 n38	40M	QPSK	100	0	DFT-30	Left Side	0mm	Ant 2	DSI 1	519000	2595	18.66	20.20	1.426	-	-	0.03	1.660	2.367
	FR1 n41	100M	QPSK	1	137	DFT-30	Back	0mm	Ant 1	DSI 1	518598	2592.99	19.62	20.90	1.343	-	-	-0.06	1.070	1.437
	FR1 n41	100M	QPSK	1	137	DFT-30	Top Side	0mm	Ant 1	DSI 1	518598	2592.99	19.62	20.90	1.343	-	-	-0.03	1.540	2.068
	FR1 n41	100M	QPSK	1	137	DFT-30	Back	5mm	Ant 1	DSI 3	518598	2592.99	23.70	24.90	1.318	-	-	0.06	0.893	1.177
	FR1 n41	100M	QPSK	1	137	DFT-30	Top Side	5mm	Ant 1	DSI 3	518598	2592.99	23.70	24.90	1.318	-	-	-0.14	1.220	1.608
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	DSI 1	518598	2592.99	19.60	20.90	1.349	-	-	-0.01	1.120	1.511
92	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 1	DSI 1	518598	2592.99	19.60	20.90	1.349	-	-	0.13	1.670	2.253
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	DSI 3	518598	2592.99	23.62	24.90	1.343	-	-	-0.09	0.923	1.239
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 1	DSI 3	518598	2592.99	23.62	24.90	1.343	-	-	0.07	1.300	1.746
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	DSI 1	518598	2592.99	16.62	17.90	1.343	-	-	-0.01	0.583	0.783
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 1	DSI 1	518598	2592.99	16.62	17.90	1.343	-	-	0.03	0.806	1.082
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	DSI 3	518598	2592.99	20.56	21.90	1.361	-	-	-0.09	0.479	0.652
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 1	DSI 3	518598	2592.99	20.56	21.90	1.361	-	-	0.07	0.611	0.832
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	DSI 1	518598	2592.99	19.45	20.90	1.396	-	-	-0.01	1.040	1.452
	FR1 n41	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 1	DSI 1	518598	2592.99	19.45	20.90	1.396	-	-	-0.01	1.580	2.206
	FR1 n41	100M	QPSK	1	137	DFT-30	Back	0mm	Ant 2	DSI 1	518598	2592.99	17.89	19.20	1.352	-	-	0.12	1.110	1.501
	FR1 n41	100M	QPSK	1	137	DFT-30	Left Side	0mm	Ant 2	DSI 1	518598	2592.99	17.89	19.20	1.352	-	-	0.16	1.310	1.771
	FR1 n41	100M	QPSK	1	137	DFT-30	Back	5mm	Ant 2	DSI 3	518598	2592.99	22.82	24.20	1.374	-	-	0.06	1.050	1.443
	FR1 n41	100M	QPSK	1	137	DFT-30	Left Side	5mm	Ant 2	DSI 3	518598	2592.99	22.82	24.20	1.374	-	-	-0.07	1.000	1.374
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI 1	518598	2592.99	17.86	19.20	1.361	-	-	0.15	1.160	1.579
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	518598	2592.99	17.86	19.20	1.361	-	-	0.01	1.390	1.892
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	DSI 3	518598	2592.99	22.78	24.20	1.387	-	-	0.14	1.080	1.498
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	518598	2592.99	22.78	24.20	1.387	-	-	0.12	1.020	1.414
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI 1	518598	2592.99	15.84	17.20	1.368	-	-	0.15	0.669	0.915
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	518598	2592.99	15.84	17.20	1.368	-	-	0.11	0.877	1.199
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	DSI 3	518598	2592.99	20.63	22.20	1.435	-	-	0.14	0.699	1.003
	FR1 n41(EN-DC)	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	518598	2592.99	20.63	22.20	1.435	-	-	0.02	0.675	0.969
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 2	DSI 1	518598	2592.99	17.81	19.20	1.377	-	-	0.11	1.080	1.487
	FR1 n41	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 2	DSI 1	518598	2592.99	17.81	19.20	1.377	-	-	0.12	1.320	1.818



**FCC SAR Test Report**

**Report No. : FA282002**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
<b>3500MHz--3900MHz</b>																				
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	0mm	Ant 2	DSI 1	633332	3499.98	17.86	18.40	1.132	-	-	0.06	1.620	1.834
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Left Side	0mm	Ant 2	DSI 1	633332	3499.98	17.86	18.40	1.132	-	-	-0.09	1.790	2.027
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Back	5mm	Ant 2	DSI 3	633332	3499.98	20.95	21.40	1.109	-	-	0.11	0.831	0.922
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Left Side	5mm	Ant 2	DSI 3	633332	3499.98	20.95	21.40	1.109	-	-	0.13	1.640	1.819
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI 1	633332	3499.98	17.82	18.40	1.143	-	-	0.03	1.680	1.920
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	633332	3499.98	17.82	18.40	1.143	-	-	0.04	1.880	2.149
93	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	633332	3499.98	20.43	21.40	1.250	50	1.000	0.07	1.860	<b>2.325</b>
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	DSI 3	633332	3499.98	20.91	21.40	1.119	-	-	-0.05	0.843	0.944
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	633332	3499.98	20.91	21.40	1.119	-	-	-0.14	1.720	1.925
	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	633332	3499.98	23.33	24.40	1.279	50	1.000	0.16	1.640	2.098
	FR1 n77_PC3	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 2	DSI 1	633332	3499.98	17.78	18.40	1.153	-	-	-0.01	1.750	2.019
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Left Side	0mm	Ant 2	DSI 1	656000	3840	17.85	18.40	1.135	-	-	-0.12	1.590	1.805
	FR1 n77_PC3	100M	QPSK	1	137	DFT-30	Left Side	5mm	Ant 2	DSI 3	656000	3840	20.77	21.40	1.156	-	-	-0.15	1.140	1.318
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	656000	3840	17.81	18.40	1.146	-	-	-0.09	1.590	1.821
	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	656000	3840	20.74	21.40	1.164	-	-	-0.1	1.100	1.281
	FR1 n77_PC3	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 2	DSI 1	656000	3840	17.58	18.40	1.208	-	-	-0.12	1.550	1.872
	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Left Side	0mm	Ant 2	DSI 1	633332	3499.98	15.77	16.40	1.156	-	-	0.02	1.350	1.561
94	FR1 n78_PC2(EN-DC)	100M	QPSK	1	137	DFT-30	Left Side	0mm	Ant 2	DSI 1	633332	3499.98	18.42	19.40	1.253	50	1.000	0.07	1.360	<b>1.704</b>
	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Left Side	5mm	Ant 2	DSI 3	633332	3499.98	19.61	20.40	1.199	-	-	0.13	1.370	1.643
	FR1 n78_PC2(EN-DC)	100M	QPSK	1	137	DFT-30	Left Side	5mm	Ant 2	DSI 3	633332	3499.98	22.49	23.40	1.233	50	1.000	0.11	1.280	1.578
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	633332	3499.98	15.67	16.40	1.183	-	-	0.11	1.270	1.502
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	633332	3499.98	19.59	20.40	1.205	-	-	-0.03	1.290	1.554
	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Left Side	0mm	Ant 2	DSI 1	650000	3750	15.71	16.40	1.172	-	-	0.02	1.210	1.418
	FR1 n78_PC3(EN-DC)	100M	QPSK	1	137	DFT-30	Left Side	5mm	Ant 2	DSI 3	650000	3750	19.48	20.40	1.236	-	-	-0.18	1.260	1.557
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	650000	3750	15.69	16.40	1.178	-	-	0.14	1.170	1.378
	FR1 n78_PC3(EN-DC)	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	650000	3750	19.39	20.40	1.262	-	-	0.09	1.220	1.539



**FCC SAR Test Report**

**Report No. : FA282002**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8	Standalone	54	5270	15.88	17.50	1.452	93.32	1.072	-0.05	0.236	0.367
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8	Standalone	54	5270	15.88	17.50	1.452	93.32	1.072	-0.01	0.272	0.423
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 8	Standalone	54	5270	15.88	17.50	1.452	93.32	1.072	0.09	0.026	0.040
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 8	Standalone	54	5270	15.88	17.50	1.452	93.32	1.072	0.13	0.526	0.819
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Standalone	54	5270	15.88	17.50	1.452	93.32	1.072	-0.01	0.101	0.157
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8	Simultaneous	54	5270	11.05	12.50	1.396	93.32	1.072	-0.02	0.077	0.115
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8	Simultaneous	54	5270	11.05	12.50	1.396	93.32	1.072	0.07	0.097	0.145
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 8	Simultaneous	54	5270	11.05	12.50	1.396	93.32	1.072	0.11	0.008	0.012
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 8	Simultaneous	54	5270	11.05	12.50	1.396	93.32	1.072	0.15	0.152	0.228
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Simultaneous	54	5270	11.05	12.50	1.396	93.32	1.072	0.12	0.030	0.045
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7+8	Standalone	54	5270	18.78	20.50	1.485	93.32	1.072	-0.02	0.414	0.659
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7+8	Standalone	54	5270	18.78	20.50	1.485	93.32	1.072	0.09	0.847	1.349
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 7+8	Standalone	54	5270	18.78	20.50	1.485	93.32	1.072	0.13	0.028	0.044
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 7+8	Standalone	54	5270	18.78	20.50	1.485	93.32	1.072	0.15	0.552	0.879
95	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 7+8	Standalone	54	5270	18.78	20.50	1.485	93.32	1.072	-0.19	1.480	<b>2.357</b>
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 7+8	Standalone	62	5310	15.51	17.00	1.408	93.32	1.072	-0.03	0.704	1.063
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7+8	Simultaneous	54	5270	13.78	15.50	1.488	93.32	1.072	-0.02	0.121	0.193
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7+8	Simultaneous	54	5270	13.78	15.50	1.488	93.32	1.072	0.09	0.252	0.402
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 7+8	Simultaneous	54	5270	13.78	15.50	1.488	93.32	1.072	0.13	0.010	0.016
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 7+8	Simultaneous	54	5270	13.78	15.50	1.488	93.32	1.072	0.09	0.172	0.274
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 7+8	Simultaneous	54	5270	13.78	15.50	1.488	93.32	1.072	0.17	0.418	0.667
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 8	Full	100	5500	15.56	16.00	1.107	96.78	1.033	0.16	0.190	0.217
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 8	Full	100	5500	15.56	16.00	1.107	96.78	1.033	0.06	0.245	0.280
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 8	Full	100	5500	15.56	16.00	1.107	96.78	1.033	0.12	0.023	0.026
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 8	Full	100	5500	15.56	16.00	1.107	96.78	1.033	0.15	0.347	0.397
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 8	Full	100	5500	15.56	16.00	1.107	96.78	1.033	-0.09	0.092	0.105
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 8	Simultaneous	122	5610	13.38	14.00	1.153	88.19	1.134	0.11	0.108	0.141
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8	Simultaneous	122	5610	13.38	14.00	1.153	88.19	1.134	-0.16	0.147	0.192
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 8	Simultaneous	122	5610	13.38	14.00	1.153	88.19	1.134	0.05	0.010	0.014
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 8	Simultaneous	122	5610	13.38	14.00	1.153	88.19	1.134	-0.03	0.226	0.296
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	122	5610	13.38	14.00	1.153	88.19	1.134	0.01	0.041	0.054
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 7+8	Full	100	5500	18.06	18.50	1.107	96.78	1.033	0.01	0.237	0.271
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 7+8	Full	100	5500	18.06	18.50	1.107	96.78	1.033	0.07	0.444	0.508
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 7+8	Full	100	5500	18.06	18.50	1.107	96.78	1.033	0.14	0.014	0.016
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 7+8	Full	100	5500	18.06	18.50	1.107	96.78	1.033	0.19	0.431	0.493
96	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 7+8	Full	100	5500	18.06	18.50	1.107	96.78	1.033	0.14	0.817	<b>0.934</b>
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 7+8	Simultaneous	122	5610	16.07	17.00	1.240	88.19	1.134	-0.18	0.161	0.226
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8	Simultaneous	122	5610	16.07	17.00	1.240	88.19	1.134	-0.12	0.288	0.405
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 7+8	Simultaneous	122	5610	16.07	17.00	1.240	88.19	1.134	-0.05	0.008	0.011
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7+8	Simultaneous	122	5610	16.07	17.00	1.240	88.19	1.134	-0.11	0.228	0.321
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 7+8	Simultaneous	122	5610	16.07	17.00	1.240	88.19	1.134	0.02	0.618	0.869
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8	Standalone	155	5775	19.14	20.50	1.368	88.19	1.134	0.03	0.892	1.383
97	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 7+8	Standalone	155	5775	19.14	20.50	1.368	88.19	1.134	0.18	1.630	<b>2.528</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8	Simultaneous	155	5775	12.65	14.00	1.364	88.19	1.134	0.18	0.198	0.306
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 7+8	Simultaneous	155	5775	12.65	14.00	1.364	88.19	1.134	-0.03	0.364	0.563



15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	GSM850	-	-	-	-	GPRS (4 TX slots)	Right Cheek	0mm	Ant 1	DSI 0	251	848.8	26.58	27.50	1.236	-0.19	0.871	1	1.077
2nd	GSM850	-	-	-	-	GPRS (4 TX slots)	Right Cheek	0mm	Ant 1	DSI 0	251	848.8	26.58	27.50	1.236	-0.15	0.856	1.018	1.058
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	1513	1752.6	21.37	22.50	1.297	-0.01	0.838	1	1.087
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	1513	1752.6	21.37	22.50	1.297	0.05	0.816	1.027	1.058
1st	GSM1900	-	-	-	-	GPRS (4 TX slots)	Right Cheek	0mm	Ant 2	DSI 0	810	1909.8	23.95	24.50	1.135	0.01	0.891	1	1.011
2nd	GSM1900	-	-	-	-	GPRS (4 TX slots)	Right Cheek	0mm	Ant 2	DSI 0	810	1909.8	23.95	24.50	1.135	0.04	0.883	1.009	1.002
1st	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	21350	2560	19.27	20.10	1.211	-0.13	0.901	1	1.091
2nd	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	21350	2560	19.27	20.10	1.211	-0.07	0.887	1.016	1.074
1st	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	633332	3499.98	16.91	17.50	1.146	-0.17	0.898	1	1.029
2nd	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	633332	3499.98	16.91	17.50	1.146	-0.13	0.889	1.010	1.018
1st	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	656000	3840	16.94	17.50	1.138	0.02	0.918	1	1.044
2nd	FR1 n77_PC3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	656000	3840	16.94	17.50	1.138	0.05	0.882	1.041	1.003
1st	FR1 n78_PC3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	650000	3750	17.31	18.00	1.172	0.12	0.818	1	0.959
2nd	FR1 n78_PC3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	650000	3750	17.31	18.00	1.172	0.1	0.799	1.024	0.937

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	1312	1712.4	20.18	21.00	1.208	0.04	2.100	1	2.536
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	1312	1712.4	20.18	21.00	1.208	0.07	2.030	1.034	2.452
1st	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	21.96	22.50	1.132	0.15	2.080	1	2.355
2nd	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	21.96	22.50	1.132	0.11	2.010	1.035	2.276

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8W/kg$ .
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45W/kg$ , only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



### 15.6 TDD NR Linearity Data Analysis

**General Note:**

This device support Power Class 2 and Power Class 3 operations for 5GNR n77/n78. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

Head			Hotspot		
<b>FR1 n77_Ant 2(HPUE)-Linearity Data for DSI 0</b>			<b>FR1 n77_Ant 2(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.90	18.90	Maximum Tune up Power (dBm)	15.90	18.90
Reported 1g SAR (W/kg)	0.964	1.041	Reported 1g SAR (W/kg)	0.746	0.813
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	38.90	38.81	Frame Averaged (mW)	38.90	38.81
Linearity SAR (W/kg)	0.962		Linearity SAR (W/kg)	0.744	
% deviation from expected linearity		8.24%	% deviation from expected linearity		9.24%
<b>FR1 n77_Ant 4(HPUE)-Linearity Data for DSI 0</b>			<b>FR1 n77_Ant 4(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.80	22.80	Maximum Tune up Power (dBm)	19.80	22.80
Reported 1g SAR (W/kg)	0.856	0.903	Reported 1g SAR (W/kg)	0.347	0.343
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	95.50	95.27	Frame Averaged (mW)	95.50	95.27
Linearity SAR (W/kg)	0.854		Linearity SAR (W/kg)	0.346	
% deviation from expected linearity		5.74%	% deviation from expected linearity		-0.92%
<b>FR1 n77_Ant 5(HPUE)-Linearity Data for DSI 0</b>			<b>FR1 n77_Ant 5(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	1.044	0.975	Reported 1g SAR (W/kg)	0.341	0.314
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	1.042		Linearity SAR (W/kg)	0.340	
% deviation from expected linearity		-6.39%	% deviation from expected linearity		-7.70%
<b>FR1 n77_Ant 6(HPUE)-Linearity Data for DSI 0</b>			<b>FR1 n77_Ant 6(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.30	20.30	Maximum Tune up Power (dBm)	17.30	20.30
Reported 1g SAR (W/kg)	0.923	0.919	Reported 1g SAR (W/kg)	0.456	0.437
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	53.70	53.58	Frame Averaged (mW)	53.70	53.58
Linearity SAR (W/kg)	0.921		Linearity SAR (W/kg)	0.455	
% deviation from expected linearity		-0.20%	% deviation from expected linearity		-3.94%
<b>FR1 n78(EN-DC)_Ant 2(HPUE)-Linearity Data for DSI 0</b>			<b>FR1 n78(EN-DC)_Ant 2(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	12.90	15.90	Maximum Tune up Power (dBm)	12.90	15.90
Reported 1g SAR (W/kg)	0.508	0.489	Reported 1g SAR (W/kg)	0.363	0.362
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	19.50	19.45	Frame Averaged (mW)	19.50	19.45



Linearity SAR (W/kg)	0.507	
% deviation from expected linearity		-3.51%
<b>FR1 n78_Ant 4(HPUE)-Linearity Data for DSI 0</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.30	23.30
Reported 1g SAR (W/kg)	0.833	0.813
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	107.15	106.90
Linearity SAR (W/kg)	0.831	
% deviation from expected linearity		-2.17%
<b>FR1 n78(EN-DC)_Ant 4(HPUE)-Linearity Data for DSI 0</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.80	21.80
Reported 1g SAR (W/kg)	0.535	0.524
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	75.86	75.68
Linearity SAR (W/kg)	0.534	
% deviation from expected linearity		-1.82%
<b>FR1 n78_Ant 5(HPUE)-Linearity Data for DSI 0</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	1.030	1.044
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	1.028	
% deviation from expected linearity		1.60%
<b>FR1 n78(EN-DC)_Ant 5(HPUE)-Linearity Data for DSI 0</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.520	0.528
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.519	
% deviation from expected linearity		1.78%
<b>FR1 n78(EN-DC)_Ant 6(HPUE)-Linearity Data for DSI 0</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	14.30	17.30
Reported 1g SAR (W/kg)	0.470	0.451
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	26.92	26.85
Linearity SAR (W/kg)	0.469	
% deviation from expected linearity		-3.81%

Linearity SAR (W/kg)	0.362	
% deviation from expected linearity		-0.04%
<b>FR1 n78_Ant 4(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.30	23.30
Reported 1g SAR (W/kg)	0.481	0.520
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	107.15	106.90
Linearity SAR (W/kg)	0.480	
% deviation from expected linearity		8.36%
<b>FR1 n78(EN-DC)_Ant 4(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.80	21.80
Reported 1g SAR (W/kg)	0.337	0.344
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	75.86	75.68
Linearity SAR (W/kg)	0.336	
% deviation from expected linearity		2.32%
<b>FR1 n78_Ant 5(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.366	0.347
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.365	
% deviation from expected linearity		-4.97%
<b>FR1 n78(EN-DC)_Ant 5(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.229	0.226
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.228	
% deviation from expected linearity		-1.08%
<b>FR1 n78_Ant 6(HPUE)-Linearity Data for DSI 4</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	14.30	17.30
Reported 1g SAR (W/kg)	0.225	0.211
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	26.92	26.85
Linearity SAR (W/kg)	0.224	
% deviation from expected linearity		-6.00%



Extremity		
<b>FR1 n77_Ant 2(HPUE)-Linearity Data for DSI 1</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.40	21.40
Reported 10g SAR (W/kg)	2.149	2.325
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	69.18	69.02
Linearity SAR (W/kg)	2.144	
% deviation from expected linearity		8.45%
<b>FR1 n77_Ant 2(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.40	24.40
Reported 10g SAR (W/kg)	1.925	2.098
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	138.04	137.71
Linearity SAR (W/kg)	1.920	
% deviation from expected linearity		9.25%
<b>FR1 n78(EN-DC)_Ant 2(HPUE)-Linearity Data for DSI 1</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	16.40	19.40
Reported 10g SAR (W/kg)	1.561	1.704
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	43.65	43.55
Linearity SAR (W/kg)	1.557	
% deviation from expected linearity		9.42%
<b>FR1 n78(EN-DC)_Ant 2(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.40	23.40
Reported 10g SAR (W/kg)	1.643	1.578
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	109.65	109.39
Linearity SAR (W/kg)	1.641	
% deviation from expected linearity		-3.73%

Body worn		
<b>FR1 n77_Ant 2(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.40	24.40
Reported 1g SAR (W/kg)	0.572	0.617
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	138.04	137.71
Linearity SAR (W/kg)	0.571	
% deviation from expected linearity		8.12%
<b>FR1 n77_Ant 4(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	23.30	26.30
Reported 1g SAR (W/kg)	0.362	0.338
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	213.80	213.29
Linearity SAR (W/kg)	0.361	
% deviation from expected linearity		-6.41%
<b>FR1 n77_Ant 5(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	0.478	0.466
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	0.477	
% deviation from expected linearity		-2.28%
<b>FR1 n77_Ant 6(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.30	24.30
Reported 1g SAR (W/kg)	0.366	0.336
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	134.90	134.58
Linearity SAR (W/kg)	0.365	
% deviation from expected linearity		-7.98%
<b>FR1 n78_Ant 2(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.40	23.40
Reported 1g SAR (W/kg)	0.465	0.437
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	109.65	109.39
Linearity SAR (W/kg)	0.464	
% deviation from expected linearity		-5.80%
<b>FR1 n78(SA/EN-DC)_Ant 4(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	23.30	26.30
Reported 1g SAR (W/kg)	0.413	0.393
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	213.80	213.29



Linearity SAR (W/kg)	0.412	
% deviation from expected linearity		-4.62%
<b>FR1 n78(SA/EN-DC)_Ant 5(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.614	0.627
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05
Linearity SAR (W/kg)	0.613	
% deviation from expected linearity		2.36%
<b>FR1 n78(SA/EN-DC)_Ant 6(HPUE)-Linearity Data for DSI 3</b>		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	21.30	24.30
Reported 1g SAR (W/kg)	0.387	0.356
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	134.90	134.58
Linearity SAR (W/kg)	0.386	
% deviation from expected linearity		-7.79%



## 16. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product Specific
1.	WWAN + WLAN2.4GHz SISO/MIMO	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz SISO/MIMO	Yes	Yes	Yes	Yes
3.	WLAN2.4GHz SISO2 + Bluetooth	Yes	Yes	Yes	Yes
4.	WWAN + WLAN2.4GHz SISO2 + Bluetooth	Yes	Yes	Yes	Yes
5.	WLAN2.4GHz SISO1 + WLAN5GHz SISO2	Yes	Yes	Yes	Yes
6.	WWAN + WLAN2.4GHz SISO1 + WLAN5GHz SISO2	Yes	Yes	Yes	Yes
7.	Bluetooth + WLAN5GHz SISO/MIMO	Yes	Yes	Yes	Yes
8.	WWAN + Bluetooth + WLAN5GHz SISO/MIMO	Yes	Yes	Yes	Yes

### General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP) and LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- 5G NR EN-DC mode, standalone SAR performed for 5G NR band with the maximum power, EN-DC SAR summed 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
- EUT will choose each GSM, WCDMA, LTE and 5G NR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 2.4GHz WLAN/ 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- WLAN2.4GHz/WLAN5GHz SISO1 means antenna 7, SISO2 means antenna 8.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth at the same antenna cannot transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz at the same antenna cannot transmit simultaneously, and WLAN 5GHz antenna 7 and WLAN 2.4GHz antenna 8 cannot transmit simultaneously.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
- The reported SAR summation is calculated based on the same configuration and test position.
- For standalone WWAN, always choose the highest SAR among all WWAN bands for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
- For Inter Band CA, always choose the highest SAR among all antenna of among all WWAN bands to perform simultaneous transmission analysis with WLAN/BT. The worst co-located analysis and can represent each LTE bands.
- For EN-DC, always choose the highest SAR among all antenna of among all WWAN bands to perform simultaneous transmission analysis with WLAN/BT at head/hotspot/body-worn exposure conditions. At extremity exposure condition, always choose the highest SAR among same antenna of all WWAN bands to perform simultaneous transmission analysis with WLAN/BT. The worst co-located analysis and can represent each LTE/NR bands.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.



16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	4+5	2+5	1+3
		WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Right Cheek	0.184	0.330	0.141	0.446	0.135	0.58	0.47	0.33
	Right Tilted	0.203	0.175	0.111	0.715	0.113	0.83	0.29	0.31
	Left Cheek	0.440	0.898	0.360	0.844	0.282	1.13	1.18	0.80
	Left Tilted	0.418	0.339	0.131	1.027	0.238	1.27	0.58	0.55

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+4	1+3+7	1+6+7	1+2+5
		WWAN Ant 7	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Right Cheek	1.091	0.119	0.222	0.250	0.164	0.242	0.135	1.34	1.45	1.47	1.37
	Right Tilted	1.086	0.119	0.222	0.250	0.164	0.242	0.113	1.34	1.42	1.44	1.37
	Left Cheek	0.975	0.119	0.222	0.250	0.164	0.242	0.282	1.23	1.48	1.50	1.26
	Left Tilted	0.926	0.119	0.222	0.250	0.164	0.242	0.238	1.18	1.39	1.41	1.21

UL CA

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5	1+2+4+8	1+2+7+8	1+2+3+6
			WWAN	WWAN	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	All Bands	Right Cheek	0.497	0.497	0.119	0.222	0.250	0.164	0.242	0.135	1.24	1.35	1.37	1.28
		Right Tilted	0.497	0.497	0.119	0.222	0.250	0.164	0.242	0.113	1.24	1.33	1.35	1.28
		Left Cheek	0.497	0.497	0.119	0.222	0.250	0.164	0.242	0.282	1.24	1.50	1.52	1.28
		Left Tilted	0.497	0.497	0.119	0.222	0.250	0.164	0.242	0.238	1.24	1.45	1.47	1.28

EN-DC

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5	1+2+4+8	1+2+7+8	1+2+3+6
			WWAN	FR1	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All LTE Bands	All FR1 Bands	Right Cheek	0.537	0.531	0.119	0.222	0.250	0.164	0.242	0.135	1.32	1.43	1.45	1.35
		Right Tilted	0.537	0.531	0.119	0.222	0.250	0.164	0.242	0.113	1.32	1.40	1.42	1.35
		Left Cheek	0.537	0.531	0.119	0.222	0.250	0.164	0.242	0.282	1.32	1.57	1.59	1.35
		Left Tilted	0.537	0.531	0.119	0.222	0.250	0.164	0.242	0.238	1.32	1.53	1.55	1.35

### 16.2 Hotspot Exposure Conditions

Exposure Position	3	4	6	8	9	4+9	8+9	3+6
	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN2.4GHz Ant 8 1g SAR (W/kg)	WLAN5GHz Ant 8 1g SAR (W/kg)	WLAN5GHz Ant 7+8 1g SAR (W/kg)	Bluetooth Ant 7 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.024	0.058	0.029	0.125	0.062	0.12	0.19	0.05
Back	0.096	0.136	0.085	0.214	0.191	0.33	0.41	0.18
Left side	0.005	0.009	0.019	0.074	0.015	0.02	0.09	0.02
Right side	0.033	0.101	0.054	0.141	0.075	0.18	0.22	0.09
Top side	0.057	0.023	0.015	0.255	0.147	0.17	0.40	0.07
Bottom side						0.00	0.00	0.00

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+4	1+3+7	1+6+7	1+2+5
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN2.4GHz Ant 8 1g SAR (W/kg)	WLAN2.4GHz Ant 7+8 1g SAR (W/kg)	WLAN5GHz Ant 8 1g SAR (W/kg)	WLAN5GHz Ant 7+8 1g SAR (W/kg)	Bluetooth Ant 7 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
All Bands	Front	0.848	0.024	0.058	0.104	0.029	0.125	0.062	0.95	0.97	1.04	0.90
	Back	1.002	0.096	0.136	0.242	0.085	0.214	0.191	1.24	1.33	1.41	1.18
	Left side	0.813	0.005	0.009	0.027	0.019	0.074	0.015	0.84	0.84	0.90	0.84
	Right side	0.553	0.033	0.101	0.177	0.054	0.141	0.075	0.73	0.73	0.77	0.64
	Top side	0.696	0.057	0.023	0.146	0.015	0.255	0.147	0.84	0.87	1.10	0.77
	Bottom side	0.980							0.98	0.98	0.98	0.98

### UL CA

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5	1+2+4+8	1+2+7+8	1+2+3+6
		WWAN 1g SAR (W/kg)	WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN2.4GHz Ant 8 1g SAR (W/kg)	WLAN2.4GHz Ant 7+8 1g SAR (W/kg)	WLAN5GHz Ant 8 1g SAR (W/kg)	WLAN5GHz Ant 7+8 1g SAR (W/kg)	Bluetooth Ant 7 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
All Bands	Front	0.538	0.538	0.024	0.058	0.104	0.029	0.125	0.062	1.18	1.20	1.26	1.13
	Back	0.538	0.538	0.096	0.136	0.242	0.085	0.214	0.191	1.32	1.40	1.48	1.26
	Left side	0.538	0.538	0.005	0.009	0.027	0.019	0.074	0.015	1.10	1.10	1.17	1.10
	Right side	0.538	0.538	0.033	0.101	0.177	0.054	0.141	0.075	1.25	1.25	1.29	1.16
	Top side	0.538	0.538	0.057	0.023	0.146	0.015	0.255	0.147	1.22	1.25	1.48	1.15
	Bottom side	0.538	0.538							1.08	1.08	1.08	1.08

### EN-DC

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5	1+2+4+8	1+2+7+8	1+2+3+6
			WWAN 1g SAR (W/kg)	FR1 1g SAR (W/kg)	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN2.4GHz Ant 8 1g SAR (W/kg)	WLAN2.4GHz Ant 7+8 1g SAR (W/kg)	WLAN5GHz Ant 8 1g SAR (W/kg)	WLAN5GHz Ant 7+8 1g SAR (W/kg)	Bluetooth Ant 7 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
All LTE Bands	All FR1 Bands	Front	0.578	0.535	0.024	0.058	0.104	0.029	0.125	0.062	1.22	1.23	1.30	1.17
		Back	0.578	0.535	0.096	0.136	0.242	0.085	0.214	0.191	1.36	1.44	1.52	1.29
		Left side	0.578	0.535	0.005	0.009	0.027	0.019	0.074	0.015	1.14	1.14	1.20	1.14
		Right side	0.578	0.535	0.033	0.101	0.177	0.054	0.141	0.075	1.29	1.29	1.33	1.20
		Top side	0.578	0.535	0.057	0.023	0.146	0.015	0.255	0.147	1.26	1.28	1.52	1.19
		Bottom side	0.578	0.535							1.11	1.11	1.11	1.11



16.3 Body-Worn Accessory Exposure Conditions

Exposure Position	3	4	6	8	9	4+9	8+9	3+6
	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.045	0.129	0.138	0.296	0.028	0.16	0.32	0.18
Back	0.159	0.226	0.182	0.709	0.099	0.33	0.81	0.34

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+4	1+3+7	1+6+7	1+2+5
		WWAN	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	0.711	0.008	0.042	0.045	0.077	0.083	0.028	0.76	0.78	0.82	0.80
	Back	0.996	0.040	0.072	0.124	0.095	0.245	0.099	1.12	1.17	1.34	1.13

UL CA

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5	1+2+4+8	1+2+7+8	1+2+3+6
		WWAN	WWAN	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	0.540	0.540	0.008	0.042	0.045	0.077	0.083	0.028	1.13	1.15	1.19	1.17
	Back	0.540	0.540	0.040	0.072	0.124	0.095	0.245	0.099	1.20	1.25	1.42	1.22

EN-DC

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5	1+2+4+8	1+2+7+8	1+2+3+6
			WWAN	FR1	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Bluetooth Ant 7	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All LTE Bands	All FR1 Bands	Front	0.592	0.627	0.008	0.042	0.045	0.077	0.083	0.028	1.26	1.29	1.33	1.30
		Back	0.592	0.627	0.040	0.072	0.124	0.095	0.245	0.099	1.34	1.39	1.56	1.35

**16.4 Product specific 10g SAR Exposure Conditions**

**Remark:**

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	5	6	1+5	1+6
		WWAN	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
All Bands	Front		0.141	0.226	0.14	0.23
	Back	2.567	0.192	0.405	2.76	2.97
	Left side	2.526	0.014	0.016	2.54	2.54
	Right side		0.296	0.321	0.30	0.32
	Top side	2.594	0.054	0.869	2.65	3.46
	Bottom side	2.355			2.36	2.36

**UL CA**

WWAN Band	Exposure Position	1	2	6	7	1+2+6	1+2+7
		WWAN	WWAN	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
All Bands	Front			0.141	0.226	0.14	0.23
	Back	1.543	1.543	0.192	0.405	3.28	3.49
	Left side	1.203	1.203	0.014	0.016	2.42	2.42
	Right side			0.296	0.321	0.30	0.32
	Top side	1.249	1.249	0.054	0.869	2.55	3.37
	Bottom side					0.00	0.00



EN-DC

WWAN Band	FR1 Band	Exposure Position	1	2	6	7	1+2+6	1+2+7
			WWAN	FR1	WLAN5GHz Ant 8	WLAN5GHz Ant 7+8	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Ant 0	NR Ant 0	Front			0.141	0.226	0.14	0.23
		Back	1.313	1.131	0.192	0.405	2.64	2.85
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side	1.058	0.986			2.04	2.04
LTE Ant 0	NR Ant 1	Front			0.141	0.226	0.14	0.23
		Back	1.313	0.829	0.192	0.405	2.33	2.55
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side		1.598	0.054	0.869	1.65	2.47
		Bottom side	1.058				1.06	1.06
LTE Ant 0	NR Ant 2	Front			0.141	0.226	0.14	0.23
		Back	1.313	1.192	0.192	0.405	2.70	2.91
		Left side		1.704	0.014	0.016	1.72	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side	1.058				1.06	1.06
LTE Ant 0	NR Ant 3	Front			0.141	0.226	0.14	0.23
		Back	1.313		0.192	0.405	1.51	1.72
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side	1.058				1.06	1.06
LTE Ant 0	NR Ant 4	Front			0.141	0.226	0.14	0.23
		Back	1.313		0.192	0.405	1.51	1.72
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side	1.058				1.06	1.06
LTE Ant 0	NR Ant 5	Front			0.141	0.226	0.14	0.23
		Back	1.313		0.192	0.405	1.51	1.72
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side	1.058				1.06	1.06
LTE Ant 0	NR Ant 6	Front			0.141	0.226	0.14	0.23
		Back	1.313		0.192	0.405	1.51	1.72
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side	1.058				1.06	1.06
LTE Ant 1	NR Ant 0	Front			0.141	0.226	0.14	0.23
		Back	1.068	1.131	0.192	0.405	2.39	2.60
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side	1.249		0.054	0.869	1.30	2.12
		Bottom side		0.986			0.99	0.99
LTE Ant 1	NR Ant 1	Front			0.141	0.226	0.14	0.23
		Back	1.068	0.829	0.192	0.405	2.09	2.30
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side	1.249	1.598	0.054	0.869	2.90	3.72
		Bottom side					0.00	0.00
LTE Ant 1	NR Ant 2	Front			0.141	0.226	0.14	0.23
		Back	1.068	1.192	0.192	0.405	2.45	2.67
		Left side		1.704	0.014	0.016	1.72	1.72



		Right side			0.296	0.321	0.30	0.32
		Top side	1.249		0.054	0.869	1.30	2.12
		Bottom side					0.00	0.00
LTE Ant 1	NR Ant 3	Front			0.141	0.226	0.14	0.23
		Back	1.068		0.192	0.405	1.26	1.47
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side	1.249		0.054	0.869	1.30	2.12
		Bottom side					0.00	0.00
LTE Ant 1	NR Ant 4	Front			0.141	0.226	0.14	0.23
		Back	1.068		0.192	0.405	1.26	1.47
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side	1.249		0.054	0.869	1.30	2.12
		Bottom side					0.00	0.00
LTE Ant 1	NR Ant 5	Front			0.141	0.226	0.14	0.23
		Back	1.068		0.192	0.405	1.26	1.47
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side	1.249		0.054	0.869	1.30	2.12
		Bottom side					0.00	0.00
LTE Ant 1	NR Ant 6	Front			0.141	0.226	0.14	0.23
		Back	1.068		0.192	0.405	1.26	1.47
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side	1.249		0.054	0.869	1.30	2.12
		Bottom side					0.00	0.00
LTE Ant 2	NR Ant 0	Front			0.141	0.226	0.14	0.23
		Back	1.361	1.131	0.192	0.405	2.68	2.90
		Left side	1.700		0.014	0.016	1.71	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side		0.986			0.99	0.99
LTE Ant 2	NR Ant 1	Front			0.141	0.226	0.14	0.23
		Back	1.361	0.829	0.192	0.405	2.38	2.60
		Left side	1.700		0.014	0.016	1.71	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side		1.598	0.054	0.869	1.65	2.47
		Bottom side					0.00	0.00
LTE Ant 2	NR Ant 2	Front			0.141	0.226	0.14	0.23
		Back	1.361	1.192	0.192	0.405	2.75	2.96
		Left side	1.700	1.704	0.014	0.016	3.42	3.42
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side					0.00	0.00
LTE Ant 2	NR Ant 3	Front			0.141	0.226	0.14	0.23
		Back	1.361		0.192	0.405	1.55	1.77
		Left side	1.700		0.014	0.016	1.71	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side					0.00	0.00
LTE Ant 2	NR Ant 4	Front			0.141	0.226	0.14	0.23
		Back	1.361		0.192	0.405	1.55	1.77
		Left side	1.700		0.014	0.016	1.71	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side					0.00	0.00
LTE Ant 2	NR Ant 5	Front			0.141	0.226	0.14	0.23
		Back	1.361		0.192	0.405	1.55	1.77
		Left side	1.700		0.014	0.016	1.71	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87



LTE Ant 2	NR Ant 6	Bottom side				0.00	0.00	
		Front			0.141	0.226	0.14	0.23
		Back	1.361		0.192	0.405	1.55	1.77
		Left side	1.700		0.014	0.016	1.71	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
LTE Ant 3	NR Ant 0	Bottom side				0.00	0.00	
		Front			0.141	0.226	0.14	0.23
		Back		1.131	0.192	0.405	1.32	1.54
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
LTE Ant 3	NR Ant 1	Bottom side		0.986		0.99	0.99	
		Front			0.141	0.226	0.14	0.23
		Back		0.829	0.192	0.405	1.02	1.23
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side		1.598	0.054	0.869	1.65	2.47
LTE Ant 3	NR Ant 2	Bottom side				0.00	0.00	
		Front			0.141	0.226	0.14	0.23
		Back		1.192	0.192	0.405	1.38	1.60
		Left side		1.704	0.014	0.016	1.72	1.72
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
LTE Ant 3	NR Ant 3	Bottom side				0.00	0.00	
		Front			0.141	0.226	0.14	0.23
		Back			0.192	0.405	0.19	0.41
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
LTE Ant 3	NR Ant 4	Bottom side				0.00	0.00	
		Front			0.141	0.226	0.14	0.23
		Back			0.192	0.405	0.19	0.41
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
LTE Ant 3	NR Ant 5	Bottom side				0.00	0.00	
		Front			0.141	0.226	0.14	0.23
		Back			0.192	0.405	0.19	0.41
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
LTE Ant 3	NR Ant 6	Bottom side				0.00	0.00	
		Front			0.141	0.226	0.14	0.23
		Back			0.192	0.405	0.19	0.41
		Left side			0.014	0.016	0.01	0.02
		Right side			0.296	0.321	0.30	0.32
		Top side			0.054	0.869	0.05	0.87
		Bottom side				0.00	0.00	

Test Engineer : Hank Huang, Kevin Xu, David Dai, Bin He





## **17. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

## **18. References**

- [1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
- [7] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015
- [8] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015
- [11] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015
- [12] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015
- [13] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015
- [14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

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