

16.12 SAR Measurement Result of LTE Band 43

Ant 3 Test Results										
Test position	Test Distance (mm)	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB										
Left cheek	0	20	QPSK 1_0	1:1.58	44590/3700	0.365	22.83	23.50	1.167	0.426
Left tilted	0	20	QPSK 1_0	1:1.58	44590/3700	0.353	22.83	23.50	1.167	0.412
Right cheek	0	20	QPSK 1_0	1:1.58	44590/3700	1.080	22.83	23.50	1.167	1.260
Right tilted	0	20	QPSK 1_0	1:1.58	44590/3700	0.506	22.83	23.50	1.167	0.590
Right cheek	0	20	QPSK 1_0	1:1.58	43690/3610	1.100	22.65	23.50	1.216	1.338
Right cheek	0	20	QPSK 1_0	1:1.58	44140/3655	1.120	22.70	23.50	1.202	1.347
Right cheek Repeat	0	20	QPSK 1_0	1:1.58	44140/3655	1.080	22.70	23.50	1.202	1.298
Right cheek	0	20	QPSK 1_0	1:1.58	45040/3745	0.996	22.63	23.50	1.222	1.217
Right cheek	0	20	QPSK 1_0	1:1.58	45490/3790	0.918	22.59	23.50	1.233	1.132
Head 50%RB										
Left cheek	0	20	QPSK 50_0	1:1.58	44590/3700	0.295	22.89	23.50	1.151	0.339
Left tilted	0	20	QPSK 50_0	1:1.58	44590/3700	0.303	22.89	23.50	1.151	0.349
Right cheek	0	20	QPSK 50_0	1:1.58	44590/3700	0.883	22.89	23.50	1.151	1.016
Right tilted	0	20	QPSK 50_0	1:1.58	44590/3700	0.444	22.89	23.50	1.151	0.511
Right cheek	0	20	QPSK 50_0	1:1.58	43690/3610	0.967	22.81	23.50	1.172	1.134
Right cheek	0	20	QPSK 50_0	1:1.58	44140/3655	0.910	22.85	23.50	1.161	1.057
Right cheek	0	20	QPSK 50_0	1:1.58	45040/3745	0.813	22.86	23.50	1.159	0.942
Right cheek	0	20	QPSK 50_0	1:1.58	45490/3790	0.735	22.74	23.50	1.191	0.876
Head 100%RB										
Right cheek	0	20	QPSK 50_0	1:1.58	44590/3700	0.965	22.86	23.50	1.159	1.118
Head 1RB (LTE+WLAN)										
Right cheek	0	20	QPSK 1_0	1:1.58	44590/3700	0.851	21.85	22.50	1.161	0.988
Right cheek	0	20	QPSK 1_0	1:1.58	43690/3610	0.877	21.68	22.50	1.208	1.059
Right cheek	0	20	QPSK 1_0	1:1.58	44140/3655	0.892	21.73	22.50	1.194	1.065
Right cheek	0	20	QPSK 1_0	1:1.58	45040/3745	0.786	21.69	22.50	1.205	0.947
Right cheek	0	20	QPSK 1_0	1:1.58	45490/3790	0.734	21.62	22.50	1.225	0.899
Head 50%RB (LTE+WLAN)										
Right cheek	0	20	QPSK 50_0	1:1.58	44590/3700	0.706	21.92	22.50	1.143	0.807
Right cheek	0	20	QPSK 50_0	1:1.58	43690/3610	0.771	21.84	22.50	1.164	0.898
Right cheek	0	20	QPSK 50_0	1:1.58	44140/3655	0.726	21.76	22.50	1.186	0.861
Right cheek	0	20	QPSK 50_0	1:1.58	45040/3745	0.651	21.89	22.50	1.151	0.749
Right cheek	0	20	QPSK 50_0	1:1.58	45490/3790	0.589	21.77	22.50	1.183	0.697
Head 100%RB (LTE+WLAN)										
Right cheek	0	20	QPSK 50_0	1:1.58	44590/3700	0.765	21.89	22.50	1.151	0.880
Body 1RB										
Front side	5	20	QPSK 1_0	1:1.58	44590/3700	0.280	19.82	20.50	1.169	0.327
Back side	5	20	QPSK 1_0	1:1.58	44590/3700	0.919	19.82	20.50	1.169	1.075
Left side	5	20	QPSK 1_0	1:1.58	44590/3700	0.895	19.82	20.50	1.169	1.047
Top side	5	20	QPSK 1_0	1:1.58	44590/3700	0.339	19.82	20.50	1.169	0.396
Back side	5	20	QPSK 1_0	1:1.58	43690/3610	0.808	19.80	20.50	1.175	0.949
Back side	5	20	QPSK 1_0	1:1.58	44140/3655	0.869	19.81	20.50	1.172	1.019
Back side	5	20	QPSK 1_0	1:1.58	45040/3745	0.936	19.79	20.50	1.178	1.102
Back side	5	20	QPSK 1_0	1:1.58	45490/3790	0.925	19.73	20.50	1.194	1.104
Left side	5	20	QPSK 1_0	1:1.58	43690/3610	0.832	19.80	20.50	1.175	0.978
Left side	5	20	QPSK 1_0	1:1.58	44140/3655	0.849	19.81	20.50	1.172	0.995
Left side	5	20	QPSK 1_0	1:1.58	45040/3745	0.860	19.79	20.50	1.178	1.013
Left side	5	20	QPSK 1_0	1:1.58	45490/3790	0.844	19.73	20.50	1.194	1.008
Front side	16	20	QPSK 1_0	1:1.58	44590/3700	0.140	23.95	24.50	1.135	0.159
Back side	17	20	QPSK 1_0	1:1.58	44590/3700	0.545	23.95	24.50	1.135	0.619
Left side	15	20	QPSK 1_0	1:1.58	44590/3700	0.492	23.95	24.50	1.135	0.558
Top side	16	20	QPSK 1_0	1:1.58	44590/3700	0.454	23.95	24.50	1.135	0.515
Back side	17	20	QPSK 1_0	1:1.58	43690/3610	0.461	23.77	24.50	1.183	0.545
Back side	17	20	QPSK 1_0	1:1.58	44140/3655	0.509	23.75	24.50	1.189	0.605
Back side	17	20	QPSK 1_0	1:1.58	45040/3745	0.600	23.71	24.50	1.199	0.720

Back side	17	20	QPSK 1_0	1:1.58	45490/3790	0.613	23.58	24.50	1.236	0.758
Body 50%RB										
Front side	5	20	QPSK 50_0	1:1.58	44590/3700	0.275	19.86	20.50	1.159	0.319
Back side	5	20	QPSK 50_0	1:1.58	44590/3700	1.080	19.86	20.50	1.159	1.251
Left side	5	20	QPSK 50_0	1:1.58	44590/3700	0.889	19.86	20.50	1.159	1.030
Top side	5	20	QPSK 50_0	1:1.58	44590/3700	0.347	19.86	20.50	1.159	0.402
Back side	5	20	QPSK 50_0	1:1.58	43690/3610	0.987	19.80	20.50	1.175	1.160
Back side	5	20	QPSK 50_0	1:1.58	44140/3655	1.030	19.81	20.50	1.172	1.207
Back side	5	20	QPSK 50_0	1:1.58	45040/3745	1.190	19.85	20.50	1.161	1.382
Back side Repeat	5	20	QPSK 50_0	1:1.58	45040/3745	1.150	19.85	20.50	1.161	1.336
Back side	5	20	QPSK 50_0	1:1.58	45490/3790	1.080	19.73	20.50	1.194	1.290
Left side	5	20	QPSK 50_0	1:1.58	43690/3610	0.891	19.80	20.50	1.175	1.047
Left side	5	20	QPSK 50_0	1:1.58	44140/3655	0.930	19.81	20.50	1.172	1.090
Left side	5	20	QPSK 50_0	1:1.58	45040/3745	0.962	19.85	20.50	1.161	1.117
Left side	5	20	QPSK 50_0	1:1.58	45490/3790	0.869	19.75	20.50	1.189	1.033
Front side	16	20	QPSK 50_0	1:1.58	44590/3700	0.123	22.89	23.50	1.151	0.142
Back side	17	20	QPSK 50_0	1:1.58	44590/3700	0.457	22.89	23.50	1.151	0.526
Left side	15	20	QPSK 50_0	1:1.58	44590/3700	0.403	22.89	23.50	1.151	0.464
Top side	16	20	QPSK 50_0	1:1.58	44590/3700	0.370	22.89	23.50	1.151	0.426
Body 100%RB										
Back side	5	20	QPSK 100_0	1:1.58	44590/3700	1.010	19.73	20.50	1.194	1.206
Left side	5	20	QPSK 100_0	1:1.58	44590/3700	0.804	19.73	20.50	1.194	0.960
Body 1RB (LTE+WLAN)										
Back side	5	20	QPSK 1_0	1:1.58	44590/3700	0.551	17.39	18.00	1.151	0.634
Body 50%RB (LTE+WLAN)										
Back side	5	20	QPSK 50_0	1:1.58	44590/3700	0.622	17.38	18.00	1.153	0.717

Table 18: SAR of LTE Band 43.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	44140/3655	1.120	1.080	1.037	N/A	N/A
Back side	45040/3745	1.190	1.150	1.035	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.13 SAR Measurement Result of LTE Band 48

Ant 3 Test Results										
Test position	Test Distance (mm)	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB										
Left cheek	0	20	QPSK 1_99	1:1.58	55340/3560	0.391	22.57	23.50	1.239	0.484
Left tilted	0	20	QPSK 1_99	1:1.58	55340/3560	0.394	22.57	23.50	1.239	0.488
Right cheek	0	20	QPSK 1_99	1:1.58	55340/3560	1.100	22.57	23.50	1.239	1.363
Right cheek Repeat	0	20	QPSK 1_99	1:1.58	55340/3560	1.060	22.57	23.50	1.239	1.313
Right tilted	0	20	QPSK 1_99	1:1.58	55340/3560	0.591	22.57	23.50	1.239	0.732
Right cheek	0	20	QPSK 1_99	1:1.58	55773/3603.3	1.010	22.53	23.50	1.250	1.263
Right cheek	0	20	QPSK 1_99	1:1.58	56207/3646.7	1.060	22.54	23.50	1.247	1.322
Right cheek	0	20	QPSK 1_99	1:1.58	56640/3690	1.020	22.50	23.50	1.259	1.284
Right tilted	0	20	QPSK 1_99	1:1.58	55773/3603.3	0.554	22.53	23.50	1.250	0.693
Right tilted	0	20	QPSK 1_99	1:1.58	56207/3646.7	0.537	22.54	23.50	1.247	0.670
Right tilted	0	20	QPSK 1_99	1:1.58	56640/3690	0.549	22.50	23.50	1.259	0.691
Head 50%RB										
Left cheek	0	20	QPSK 50_50	1:1.58	55340/3560	0.325	22.69	23.50	1.205	0.392
Left tilted	0	20	QPSK 50_50	1:1.58	55340/3560	0.333	22.69	23.50	1.205	0.401
Right cheek	0	20	QPSK 50_50	1:1.58	55340/3560	0.982	22.69	23.50	1.205	1.183
Right tilted	0	20	QPSK 50_50	1:1.58	55340/3560	0.493	22.69	23.50	1.205	0.594
Right cheek	0	20	QPSK 50_50	1:1.58	55773/3603.3	0.931	22.68	23.50	1.208	1.124
Right cheek	0	20	QPSK 50_50	1:1.58	56207/3646.7	0.904	22.67	23.50	1.211	1.094
Right cheek	0	20	QPSK 50_50	1:1.58	56640/3690	0.856	22.67	23.50	1.211	1.036
Head 100%RB										
Right cheek	0	20	QPSK 100_0	1:1.58	55340/3560	0.977	22.68	23.50	1.208	1.180
ENDC Head 1RB (LTE+NR, LTE+WLAN)										
Left cheek	0	20	QPSK 1_99	1:1.58	55340/3560	0.251	20.68	21.50	1.208	0.303
Right cheek	0	20	QPSK 1_99	1:1.58	55340/3560	0.657	20.68	21.50	1.208	0.794
Head 50%RB (LTE+NR, LTE+WLAN)										
Left cheek	0	20	QPSK 50_50	1:1.58	55340/3560	0.214	20.71	21.50	1.199	0.257
Right cheek	0	20	QPSK 50_50	1:1.58	55340/3560	0.638	20.71	21.50	1.199	0.765
Head 1RB (LTE+NR+WLAN)										
Left cheek	0	20	QPSK 1_99	1:1.58	55340/3560	0.192	19.62	20.50	1.225	0.235
Left tilted	0	20	QPSK 1_99	1:1.58	55340/3560	0.195	19.62	20.50	1.225	0.239
Right cheek	0	20	QPSK 1_99	1:1.58	55340/3560	0.547	19.62	20.50	1.225	0.670
Right tilted	0	20	QPSK 1_99	1:1.58	55340/3560	0.294	19.62	20.50	1.225	0.360
Head 50%RB (LTE+NR+WLAN)										
Left cheek	0	20	QPSK 50_50	1:1.58	55340/3560	0.161	19.67	20.50	1.211	0.195
Left tilted	0	20	QPSK 50_50	1:1.58	55340/3560	0.160	19.67	20.50	1.211	0.194
Right cheek	0	20	QPSK 50_50	1:1.58	55340/3560	0.486	19.67	20.50	1.211	0.588
Right tilted	0	20	QPSK 50_50	1:1.58	55340/3560	0.245	19.67	20.50	1.211	0.297
Body 1RB										
Front side	5	20	QPSK 1_99	1:1.58	55340/3560	0.317	18.59	19.50	1.233	0.391
Back side	5	20	QPSK 1_99	1:1.58	55340/3560	0.952	18.59	19.50	1.233	1.174
Left side	5	20	QPSK 1_99	1:1.58	55340/3560	0.887	18.59	19.50	1.233	1.094
Top side	5	20	QPSK 1_99	1:1.58	55340/3560	0.289	18.59	19.50	1.233	0.356
Back side	5	20	QPSK 1_99	1:1.58	55773/3603.3	0.930	18.57	19.50	1.239	1.152
Back side	5	20	QPSK 1_99	1:1.58	56207/3646.7	0.965	18.55	19.50	1.245	1.201
Back side	5	20	QPSK 1_99	1:1.58	56640/3690	0.972	18.56	19.50	1.242	1.207
Back side Repeat	5	20	QPSK 1_99	1:1.58	56640/3690	0.937	18.56	19.50	1.242	1.163
Left side	5	20	QPSK 1_99	1:1.58	55773/3603.3	0.927	18.57	19.50	1.239	1.148
Left side	5	20	QPSK 1_99	1:1.58	56207/3646.7	0.947	18.55	19.50	1.245	1.179
Left side	5	20	QPSK 1_99	1:1.58	56640/3690	0.950	18.56	19.50	1.242	1.180
Front side	16	20	QPSK 1_99	1:1.58	55340/3560	0.128	23.58	24.50	1.236	0.158
Back side	17	20	QPSK 1_99	1:1.58	55340/3560	0.435	23.58	24.50	1.236	0.538
Left side	15	20	QPSK 1_99	1:1.58	55340/3560	0.481	23.58	24.50	1.236	0.594
Top side	16	20	QPSK 1_99	1:1.58	55340/3560	0.372	23.58	24.50	1.236	0.460
Body 50%RB										

Front side	5	20	QPSK 50_50	1:1.58	55340/3560	0.345	18.58	19.50	1.236	0.426
Back side	5	20	QPSK 50_50	1:1.58	55340/3560	0.963	18.58	19.50	1.236	1.190
Left side	5	20	QPSK 50_50	1:1.58	55340/3560	0.946	18.58	19.50	1.236	1.169
Top side	5	20	QPSK 50_50	1:1.58	55340/3560	0.302	18.58	19.50	1.236	0.373
Back side	5	20	QPSK 50_50	1:1.58	55773/3603.3	0.960	18.54	19.50	1.247	1.197
Back side	5	20	QPSK 50_50	1:1.58	56207/3646.7	0.940	18.53	19.50	1.250	1.175
Back side	5	20	QPSK 50_50	1:1.58	56640/3690	0.968	18.57	19.50	1.239	1.199
Left side	5	20	QPSK 50_50	1:1.58	55773/3603.3	0.953	18.54	19.50	1.247	1.189
Left side	5	20	QPSK 50_50	1:1.58	56207/3646.7	0.961	18.53	19.50	1.250	1.201
Left side	5	20	QPSK 50_50	1:1.58	56640/3690	0.964	18.57	19.50	1.239	1.194
Front side	16	20	QPSK 50_50	1:1.58	55340/3560	0.101	22.69	23.50	1.205	0.122
Back side	17	20	QPSK 50_50	1:1.58	55340/3560	0.285	22.69	23.50	1.205	0.343
Left side	15	20	QPSK 50_50	1:1.58	55340/3560	0.409	22.69	23.50	1.205	0.493
Top side	16	20	QPSK 50_50	1:1.58	55340/3560	0.310	22.69	23.50	1.205	0.374
Body 100%RB										
Back side	5	20	QPSK 100_0	1:1.58	55340/3560	0.963	18.66	19.50	1.213	1.168
Left side	5	20	QPSK 100_0	1:1.58	55340/3560	0.856	18.66	19.50	1.213	1.039
Body 1RB (LTE+NR, LTE+WLAN)										
Back side	5	20	QPSK 1_99	1:1.58	55340/3560	0.552	16.09	17.00	1.233	0.681
Body 50%RB (LTE+NR, LTE+WLAN)										
Back side	5	20	QPSK 50_50	1:1.58	55340/3560	0.543	16.08	17.00	1.236	0.671
Body 1RB (LTE+NR+WLAN)										
Back side	5	20	QPSK 1_99	1:1.58	55340/3560	0.392	15.13	16.00	1.222	0.479
Body 50%RB (LTE+NR+WLAN)										
Back side	5	20	QPSK 50_50	1:1.58	55340/3560	0.386	15.10	16.00	1.230	0.475

Table 19: SAR of LTE Band 48.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	55340/3560	1.100	1.060	1.038	N/A	N/A
Back side	56640/3690	0.972	0.937	1.037	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.14 SAR Measurement Result of LTE Band 66

Ant 4 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	20	QPSK 1_0	132572/1770	0.486	20.58	21.50	1.236	0.601
Left tilted	0	20	QPSK 1_0	132572/1770	0.282	20.58	21.50	1.236	0.349
Right cheek	0	20	QPSK 1_0	132572/1770	1.020	20.58	21.50	1.236	1.261
Right cheek Repeat	0	20	QPSK 1_0	132572/1770	1.010	20.58	21.50	1.236	1.248
Right tilted	0	20	QPSK 1_0	132572/1770	0.478	20.58	21.50	1.236	0.591
Right cheek	0	20	QPSK 1_0	132072/1720	0.918	20.48	21.50	1.265	1.161
Right cheek	0	20	QPSK 1_0	132322/1745	0.973	20.49	21.50	1.262	1.228
Head 50%RB									
Left cheek	0	20	QPSK 50_50	132572/1770	0.506	20.58	21.50	1.236	0.625
Left tilted	0	20	QPSK 50_50	132572/1770	0.290	20.58	21.50	1.236	0.358
Right cheek	0	20	QPSK 50_50	132572/1770	0.994	20.58	21.50	1.236	1.229
Right tilted	0	20	QPSK 50_50	132572/1770	0.495	20.58	21.50	1.236	0.612
Right cheek	0	20	QPSK 50_50	132072/1720	0.962	20.55	21.50	1.245	1.197
Right cheek	0	20	QPSK 50_50	132322/1745	0.992	20.54	21.50	1.247	1.237
Head 100%RB									
Right cheek	0	20	QPSK 100_0	132572/1770	0.919	20.64	21.50	1.219	1.120
Head 1RB (LTE+NR, LTE+WLAN)									
Right cheek	0	20	QPSK 1_0	132572/1770	0.823	19.63	20.50	1.222	1.006
Right cheek	0	20	QPSK 1_0	132072/1720	0.735	19.55	20.50	1.245	0.915
Right cheek	0	20	QPSK 1_0	132322/1745	0.784	19.53	20.50	1.250	0.980
Head 50%RB (LTE+NR, LTE+WLAN)									
Right cheek	0	20	QPSK 50_50	132572/1770	0.796	19.60	20.50	1.230	0.979
Right cheek	0	20	QPSK 50_50	132072/1720	0.762	19.57	20.50	1.239	0.944
Right cheek	0	20	QPSK 50_50	132322/1745	0.783	19.58	20.50	1.236	0.968
Head 100%RB (LTE+NR, LTE+WLAN)									
Right cheek	0	20	QPSK 100_0	132572/1770	0.726	19.60	20.50	1.230	0.893
Head 1RB (LTE+NR+WLAN)									
Left cheek	0	20	QPSK 1_0	132572/1770	0.211	17.16	18.00	1.213	0.256
Right cheek	0	20	QPSK 1_0	132572/1770	0.445	17.16	18.00	1.213	0.540
Head 50%RB (LTE+NR+WLAN)									
Left cheek	0	20	QPSK 50_50	132572/1770	0.222	17.14	18.00	1.219	0.271
Right cheek	0	20	QPSK 50_50	132572/1770	0.438	17.14	18.00	1.219	0.534
Body 1RB									
Front side	5	20	QPSK 1_0	132572/1770	0.457	19.07	20.00	1.239	0.566
Back side	5	20	QPSK 1_0	132572/1770	0.903	19.07	20.00	1.239	1.119
Left side	5	20	QPSK 1_0	132572/1770	0.352	19.07	20.00	1.239	0.436
Top side	5	20	QPSK 1_0	132572/1770	0.273	19.07	20.00	1.239	0.338
Back side	5	20	QPSK 1_0	132072/1720	1.090	19.02	20.00	1.253	1.366
Back side Repeat	5	20	QPSK 1_0	132072/1720	0.984	19.02	20.00	1.253	1.233
Back side	5	20	QPSK 1_0	132322/1745	0.903	19.05	20.00	1.245	1.124
Front side	16	20	QPSK 1_0	132572/1770	0.203	23.54	24.50	1.247	0.253
Back side	17	20	QPSK 1_0	132572/1770	0.279	23.54	24.50	1.247	0.348
Left side	15	20	QPSK 1_0	132572/1770	0.234	23.54	24.50	1.247	0.292
Top side	16	20	QPSK 1_0	132572/1770	0.125	23.54	24.50	1.247	0.156
Body 50%RB									
Front side	5	20	QPSK 50_50	132572/1770	0.470	19.10	20.00	1.230	0.578
Back side	5	20	QPSK 50_50	132572/1770	0.947	19.10	20.00	1.230	1.165
Left side	5	20	QPSK 50_50	132572/1770	0.398	19.10	20.00	1.230	0.490
Top side	5	20	QPSK 50_50	132572/1770	0.169	19.10	20.00	1.230	0.208
Back side	5	20	QPSK 50_50	132072/1720	0.940	19.04	20.00	1.247	1.173
Back side	5	20	QPSK 50_50	132322/1745	0.905	19.06	20.00	1.242	1.124
Front side	16	20	QPSK 50_50	132572/1770	0.170	22.70	23.50	1.202	0.204
Back side	17	20	QPSK 50_50	132572/1770	0.243	22.70	23.50	1.202	0.292
Left side	15	20	QPSK 50_50	132572/1770	0.208	22.70	23.50	1.202	0.250

Top side	16	20	QPSK 50_50	132572/1770	0.107	22.70	23.50	1.202	0.129
Body 100%RB									
Back side	5	20	QPSK 100_0	132572/1770	0.958	19.03	20.00	1.250	1.198
Body 1RB (LTE+NR, LTE+WLAN)									
Back side	5	20	QPSK 1_0	132572/1770	0.607	17.16	18.00	1.213	0.737
Body 50%RB (LTE+NR, LTE+WLAN)									
Back side	5	20	QPSK 50_50	132572/1770	0.602	17.14	18.00	1.219	0.734
Body 1RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 1_0	132572/1770	0.295	14.09	15.00	1.233	0.364
Body 50%RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 50_50	132572/1770	0.291	14.05	15.00	1.245	0.362

Table 20: SAR of LTE Band 66 Ant4.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	132572/1770	1.020	1.010	1.010	N/A	N/A
Back side	132072/1720	1.090	0.984	1.108	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 1 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq.(MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	20	QPSK 1_0	132322/1745	0.267	24.22	24.50	1.067	0.285
Left tilted	0	20	QPSK 1_0	132322/1745	0.093	24.22	24.50	1.067	0.099
Right cheek	0	20	QPSK 1_0	132322/1745	0.086	24.22	24.50	1.067	0.092
Right tilted	0	20	QPSK 1_0	132322/1745	0.046	24.22	24.50	1.067	0.049
Head 50%RB									
Left cheek	0	20	QPSK 50_25	132322/1745	0.076	23.28	23.50	1.052	0.080
Left tilted	0	20	QPSK 50_25	132322/1745	0.025	23.28	23.50	1.052	0.026
Right cheek	0	20	QPSK 50_25	132322/1745	0.039	23.28	23.50	1.052	0.041
Right tilted	0	20	QPSK 50_25	132322/1745	0.022	23.28	23.50	1.052	0.023
Body RB									
Front side	5	20	QPSK 1_0	132322/1745	0.310	21.24	21.50	1.062	0.329
Back side	5	20	QPSK 1_0	132322/1745	0.747	21.24	21.50	1.062	0.793
Left side	5	20	QPSK 1_0	132322/1745	0.280	21.24	21.50	1.062	0.297
Bottom side	5	20	QPSK 1_0	132322/1745	0.057	21.24	21.50	1.062	0.061
Front side	16	20	QPSK 1_0	132322/1745	0.204	24.22	24.50	1.067	0.218
Back side	17	20	QPSK 1_0	132322/1745	0.286	24.22	24.50	1.067	0.305
Left side	15	20	QPSK 1_0	132322/1745	0.154	24.22	24.50	1.067	0.164
Bottom side	16	20	QPSK 1_0	132322/1745	0.111	24.22	24.50	1.067	0.118
Body 50%RB									
Front side	5	20	QPSK 50_25	132322/1745	0.257	21.19	21.50	1.074	0.276
Back side	5	20	QPSK 50_25	132322/1745	0.637	21.19	21.50	1.074	0.684
Left side	5	20	QPSK 50_25	132322/1745	0.218	21.19	21.50	1.074	0.234
Bottom side	5	20	QPSK 50_25	132322/1745	0.131	21.19	21.50	1.074	0.141
Front side	16	20	QPSK 50_25	132322/1745	0.159	23.28	23.50	1.052	0.167
Back side	17	20	QPSK 50_25	132322/1745	0.220	23.28	23.50	1.052	0.231
Left side	15	20	QPSK 50_25	132322/1745	0.127	23.28	23.50	1.052	0.134
Bottom side	16	20	QPSK 50_25	132322/1745	0.081	23.28	23.50	1.052	0.085
Body 1RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 1_0	132322/1745	0.285	17.28	17.50	1.052	0.300
Body 50%RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 50_25	132322/1745	0.257	17.23	17.50	1.064	0.273

Table 21: SAR of LTE Band 66 Ant1.

16.15 SAR Measurement Result of LTE Band 71

Ant 0 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	20	QPSK 1_0	133322/683	0.169	23.89	25.00	1.291	0.218
Left tilted	0	20	QPSK 1_0	133322/683	0.081	23.89	25.00	1.291	0.105
Right cheek	0	20	QPSK 1_0	133322/683	0.215	23.89	25.00	1.291	0.278
Right tilted	0	20	QPSK 1_0	133322/683	0.090	23.89	25.00	1.291	0.116
Head 50%RB									
Left cheek	0	20	QPSK 50_0	133322/683	0.142	22.88	24.00	1.294	0.184
Left tilted	0	20	QPSK 50_0	133322/683	0.076	22.88	24.00	1.294	0.098
Right cheek	0	20	QPSK 50_0	133322/683	0.188	22.88	24.00	1.294	0.243
Right tilted	0	20	QPSK 50_0	133322/683	0.091	22.88	24.00	1.294	0.118
Body 1RB									
Front side	5	20	QPSK 1_0	133322/683	0.160	23.89	25.00	1.291	0.207
Back side	5	20	QPSK 1_0	133322/683	0.753	23.89	25.00	1.291	0.972
Left side	5	20	QPSK 1_0	133322/683	0.080	23.89	25.00	1.291	0.103
Right side	5	20	QPSK 1_0	133322/683	0.226	23.89	25.00	1.291	0.292
Bottom side	5	20	QPSK 1_0	133322/683	0.281	23.89	25.00	1.291	0.363
Back side	5	20	QPSK 1_0	133222/673	0.711	23.67	25.00	1.358	0.966
Back side	5	20	QPSK 1_0	133372/688	0.708	23.82	25.00	1.312	0.929
Body 50%RB									
Front side	5	20	QPSK 50_0	133322/683	0.146	22.88	24.00	1.294	0.189
Back side	5	20	QPSK 50_0	133322/683	0.701	22.88	24.00	1.294	0.907
Left side	5	20	QPSK 50_0	133322/683	0.120	22.88	24.00	1.294	0.155
Right side	5	20	QPSK 50_0	133322/683	0.266	22.88	24.00	1.294	0.344
Bottom side	5	20	QPSK 50_0	133322/683	0.263	22.88	24.00	1.294	0.340
Back side	5	20	QPSK 50_0	133222/673	0.656	22.84	24.00	1.306	0.857
Back side	5	20	QPSK 50_0	133372/688	0.642	22.87	24.00	1.297	0.833
Body 100%RB									
Back side	5	20	QPSK 100_0	133322/683	0.576	22.87	24.00	1.297	0.747
Body 1RB (LTE+NR, LTE+WLAN)									
Back side	5	20	QPSK 1_0	133322/683	0.433	21.45	22.50	1.274	0.551
Body 50%RB (LTE+NR, LTE+WLAN)									
Back side	5	20	QPSK 50_0	133322/683	0.502	24.42	22.50	0.643	0.323
Body 1RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 1_0	133322/683	0.196	17.96	19.00	1.271	0.249
Body 50%RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 50_0	133322/683	0.228	17.92	19.00	1.282	0.292

Table 22: SAR of LTE Band 71.

16.16 SAR Measurement Result of 5G NR n7

Ant 4 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	40	QPSK 1_1	507000/2535	0.558	23.27	23.50	1.054	0.588
Left tilted	0	40	QPSK 1_1	507000/2535	0.608	23.27	23.50	1.054	0.641
Right cheek	0	40	QPSK 1_1	507000/2535	1.070	23.27	23.50	1.054	1.128
Right tilted	0	40	QPSK 1_1	507000/2535	1.090	23.27	23.50	1.054	1.149
Right cheek	0	40	QPSK 1_1	504000/2520	1.080	23.25	23.50	1.059	1.144
Right cheek	0	40	QPSK 1_1	510000/2550	1.130	23.24	23.50	1.062	1.200
Right cheek Repeat	0	40	QPSK 1_1	510000/2550	1.120	23.24	23.50	1.062	1.189
Right tilted	0	40	QPSK 1_1	504000/2520	1.100	23.25	23.50	1.059	1.165
Right tilted	0	40	QPSK 1_1	510000/2550	1.030	23.24	23.50	1.062	1.094
Head 50%RB									
Left cheek	0	40	QPSK 108_0	507000/2535	0.542	23.28	23.50	1.052	0.570
Left tilted	0	40	QPSK 108_0	507000/2535	0.613	23.28	23.50	1.052	0.645
Right cheek	0	40	QPSK 108_0	507000/2535	1.120	23.28	23.50	1.052	1.178
Right tilted	0	40	QPSK 108_0	507000/2535	1.080	23.28	23.50	1.052	1.136
Right cheek	0	40	QPSK 108_0	504000/2520	1.120	23.24	23.50	1.062	1.189
Right cheek	0	40	QPSK 108_0	510000/2550	1.110	23.22	23.50	1.067	1.184
Right tilted	0	40	QPSK 108_0	504000/2520	1.100	23.24	23.50	1.062	1.168
Right tilted	0	40	QPSK 108_0	510000/2550	1.120	23.22	23.50	1.067	1.195
Head 100%RB									
Right cheek	0	40	QPSK 216_0	507000/2535	1.010	23.24	23.50	1.062	1.072
Right tilted	0	40	QPSK 216_0	507000/2535	1.010	23.24	23.50	1.062	1.072
Head 1RB (LTE+WLAN, LTE+NR+WLAN)									
Left cheek	0	40	QPSK 1_1	507000/2535	0.347	21.19	21.50	1.074	0.373
Right cheek	0	40	QPSK 1_1	507000/2535	0.682	21.19	21.50	1.074	0.732
Right tilted	0	40	QPSK 1_1	507000/2535	0.679	21.19	21.50	1.074	0.729
Head 50%RB (LTE+WLAN, LTE+NR+WLAN)									
Left cheek	0	40	QPSK 108_0	507000/2535	0.336	21.20	21.50	1.072	0.360
Right cheek	0	40	QPSK 108_0	507000/2535	0.681	21.20	21.50	1.072	0.730
Right tilted	0	40	QPSK 108_0	507000/2535	0.672	21.20	21.50	1.072	0.720
Body 1RB									
Front side	5	40	QPSK 1_1	507000/2535	0.167	16.87	17.00	1.030	0.172
Back side	5	40	QPSK 1_1	507000/2535	1.180	16.87	17.00	1.030	1.216
Left side	5	40	QPSK 1_1	507000/2535	0.173	16.87	17.00	1.030	0.178
Top side	5	40	QPSK 1_1	507000/2535	0.454	16.87	17.00	1.030	0.468
Back side	5	40	QPSK 1_1	504000/2520	1.290	16.83	17.00	1.040	1.341
Back side Repeat	5	40	QPSK 1_1	504000/2520	1.230	16.83	17.00	1.040	1.279
Back side	5	40	QPSK 1_1	510000/2550	1.170	16.85	17.00	1.035	1.211
Front side	16	40	QPSK 1_1	507000/2535	0.199	24.36	24.50	1.033	0.206
Back side	17	40	QPSK 1_1	507000/2535	0.875	24.36	24.50	1.033	0.904
Left side	15	40	QPSK 1_1	507000/2535	0.290	24.36	24.50	1.033	0.300
Top side	16	40	QPSK 1_1	507000/2535	0.545	24.36	24.50	1.033	0.563
Back side	17	40	QPSK 1_1	504000/2520	0.847	24.32	24.50	1.042	0.883
Back side	17	40	QPSK 1_1	510000/2550	0.891	24.33	24.50	1.040	0.927
Body 50%RB									
Front side	5	40	QPSK 108_54	507000/2535	0.165	16.84	17.00	1.038	0.171
Back side	5	40	QPSK 108_54	507000/2535	1.120	16.84	17.00	1.038	1.162
Left side	5	40	QPSK 108_54	507000/2535	0.181	16.84	17.00	1.038	0.188
Top side	5	40	QPSK 108_54	507000/2535	0.456	16.84	17.00	1.038	0.473
Back side	5	40	QPSK 108_54	504000/2520	1.170	16.82	17.00	1.042	1.220
Back side	5	40	QPSK 108_54	510000/2550	1.080	16.81	17.00	1.045	1.128
Front side	16	40	QPSK 108_54	507000/2535	0.160	24.35	24.50	1.035	0.166
Back side	17	40	QPSK 108_54	507000/2535	0.689	24.35	24.50	1.035	0.713
Left side	15	40	QPSK 108_54	507000/2535	0.235	24.35	24.50	1.035	0.243
Top side	16	40	QPSK 108_54	507000/2535	0.426	24.35	24.50	1.035	0.441

Body 100%RB									
Back side	5	40	QPSK 216_0	507000/2535	0.990	16.83	17.00	1.040	1.030
Body 1RB (LTE+NR, NR+WLAN)									
Back side	5	40	QPSK 1_1	507000/2535	0.741	14.82	15.00	1.042	0.772
Body 50%RB (LTE+NR, NR+WLAN)									
Back side	5	40	QPSK 108_54	507000/2535	0.702	14.80	15.00	1.047	0.735
Body 1RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 1_1	507000/2535	0.570	13.85	14.00	1.035	0.590
Body 50%RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 108_54	507000/2535	0.564	13.81	14.00	1.045	0.589

Table 23: SAR of 5G NR n7.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	510000/2550	1.130	1.120	1.009	N/A	N/A
Back side	504000/2520	1.290	1.230	1.049	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

16.17 SAR Measurement Result of 5G NR n12

Ant 0 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	15	QPSK 1_1	141500/707.5	0.046	24.08	25.00	1.236	0.057
Left tilted	0	15	QPSK 1_1	141500/707.5	0.023	24.08	25.00	1.236	0.028
Right cheek	0	15	QPSK 1_1	141500/707.5	0.072	24.08	25.00	1.236	0.089
Right tilted	0	15	QPSK 1_1	141500/707.5	0.053	24.08	25.00	1.236	0.066
Head 50%RB									
Left cheek	0	15	QPSK 36_22	141500/707.5	0.056	23.92	25.00	1.282	0.072
Left tilted	0	15	QPSK 36_22	141500/707.5	0.045	23.92	25.00	1.282	0.058
Right cheek	0	15	QPSK 36_22	141500/707.5	0.076	23.92	25.00	1.282	0.097
Right tilted	0	15	QPSK 36_22	141500/707.5	0.071	23.92	25.00	1.282	0.091
Body 1RB									
Front side	5	15	QPSK 1_1	141500/707.5	0.215	24.08	25.00	1.236	0.266
Back side	5	15	QPSK 1_1	141500/707.5	0.760	24.08	25.00	1.236	0.939
Left side	5	15	QPSK 1_1	141500/707.5	0.053	24.08	25.00	1.236	0.066
Right side	5	15	QPSK 1_1	141500/707.5	0.240	24.08	25.00	1.236	0.297
Bottom side	5	15	QPSK 1_1	141500/707.5	0.479	24.08	25.00	1.236	0.592
Back side	5	15	QPSK 1_1	141300/706.5	0.725	24.05	25.00	1.245	0.902
Back side	5	15	QPSK 1_1	141700/708.5	0.838	24.03	25.00	1.250	1.048
Body 50%RB									
Front side	5	15	QPSK 36_22	141500/707.5	0.178	23.92	25.00	1.282	0.228
Back side	5	15	QPSK 36_22	141500/707.5	0.904	23.92	25.00	1.282	1.159
Left side	5	15	QPSK 36_22	141500/707.5	0.047	23.92	25.00	1.282	0.060
Right side	5	15	QPSK 36_22	141500/707.5	0.281	23.92	25.00	1.282	0.360
Bottom side	5	15	QPSK 36_22	141500/707.5	0.359	23.92	25.00	1.282	0.460
Back side	5	15	QPSK 36_22	141300/706.5	0.903	23.88	25.00	1.294	1.169
Back side	5	15	QPSK 36_22	141700/708.5	1.030	23.85	25.00	1.303	1.342
Back side Repeat	5	15	QPSK 36_22	141700/708.5	0.980	23.85	25.00	1.303	1.277
Body 100%RB									
Back side	5	15	QPSK 75_0	141500/707.5	0.748	22.98	24.00	1.265	0.946
Body 1RB (LTE+NR, NR+WLAN)									
Back side	5	15	QPSK 1_1	141700/708.5	0.524	22.12	23.00	1.225	0.642
Body 50%RB (LTE+NR, NR+WLAN)									
Back side	5	15	QPSK 36_22	141700/708.5	0.625	21.96	23.00	1.271	0.794
Body 1RB (LTE+NR+WLAN)									
Back side	5	15	QPSK 1_1	141700/708.5	0.336	20.10	21.00	1.230	0.413
Body 50%RB (LTE+NR+WLAN)									
Back side	5	15	QPSK 36_22	141700/708.5	0.414	19.96	21.00	1.271	0.526

Table 24: SAR of 5G NR n12.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	141700/708.5	1.030	0.980	1.051	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.18 SAR Measurement Result of 5G NR n13

Ant 0 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	10	QPSK 1_1	156400/782	0.106	24.33	25.00	1.167	0.124
Left tilted	0	10	QPSK 1_1	156400/782	0.072	24.33	25.00	1.167	0.084
Right cheek	0	10	QPSK 1_1	156400/782	0.112	24.33	25.00	1.167	0.131
Right tilted	0	10	QPSK 1_1	156400/782	0.085	24.33	25.00	1.167	0.099
Head 50%RB									
Left cheek	0	10	QPSK 25_14	156400/782	0.101	24.15	25.00	1.216	0.123
Left tilted	0	10	QPSK 25_14	156400/782	0.068	24.15	25.00	1.216	0.083
Right cheek	0	10	QPSK 25_14	156400/782	0.105	24.15	25.00	1.216	0.128
Right tilted	0	10	QPSK 25_14	156400/782	0.077	24.15	25.00	1.216	0.094
Body 1RB									
Front side	5	10	QPSK 1_1	156400/782	0.188	24.33	25.00	1.167	0.219
Back side	5	10	QPSK 1_1	156400/782	0.776	24.33	25.00	1.167	0.905
Left side	5	10	QPSK 1_1	156400/782	0.049	24.33	25.00	1.167	0.057
Right side	5	10	QPSK 1_1	156400/782	0.166	24.33	25.00	1.167	0.194
Bottom side	5	10	QPSK 1_1	156400/782	0.342	24.33	25.00	1.167	0.399
Body 50%RB									
Front side	5	10	QPSK 25_14	156400/782	0.165	24.15	25.00	1.216	0.201
Back side	5	10	QPSK 25_14	156400/782	0.676	24.15	25.00	1.216	0.822
Left side	5	10	QPSK 25_14	156400/782	0.041	24.15	25.00	1.216	0.050
Right side	5	10	QPSK 25_14	156400/782	0.158	24.15	25.00	1.216	0.192
Bottom side	5	10	QPSK 25_14	156400/782	0.336	24.15	25.00	1.216	0.409
Body 100%RB									
Back side	5	10	QPSK 50_0	156400/782	0.513	23.18	24.00	1.208	0.620
Body 1RB (NR+WLAN)									
Back side	5	10	QPSK 1_1	156400/782	0.621	23.35	24.00	1.161	0.721
Body 50%RB (NR+WLAN)									
Back side	5	10	QPSK 25_14	156400/782	0.543	23.19	24.00	1.205	0.654

Table 25: SAR of 5G NR n13.

16.19 SAR Measurement Result of 5G NR n14

Ant 0 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	10	QPSK 1_1	158600/793	0.109	24.25	25.00	1.189	0.130
Left tilted	0	10	QPSK 1_1	158600/793	0.070	24.25	25.00	1.189	0.083
Right cheek	0	10	QPSK 1_1	158600/793	0.116	24.25	25.00	1.189	0.138
Right tilted	0	10	QPSK 1_1	158600/793	0.081	24.25	25.00	1.189	0.096
Head 50%RB									
Left cheek	0	10	QPSK 25_14	158600/793	0.104	24.01	25.00	1.256	0.131
Left tilted	0	10	QPSK 25_14	158600/793	0.066	24.01	25.00	1.256	0.083
Right cheek	0	10	QPSK 25_14	158600/793	0.107	24.01	25.00	1.256	0.134
Right tilted	0	10	QPSK 25_14	158600/793	0.073	24.01	25.00	1.256	0.092
Body 1RB									
Front side	5	10	QPSK 1_1	158600/793	0.187	24.25	25.00	1.189	0.222
Back side	5	10	QPSK 1_1	158600/793	0.866	24.25	25.00	1.189	1.029
Back side Repeat	5	10	QPSK 1_1	158600/793	0.845	24.25	25.00	1.189	1.004
Left side	5	10	QPSK 1_1	158600/793	0.043	24.25	25.00	1.189	0.051
Right side	5	10	QPSK 1_1	158600/793	0.172	24.25	25.00	1.189	0.204
Bottom side	5	10	QPSK 1_1	158600/793	0.388	24.25	25.00	1.189	0.461
Body 50%RB									
Front side	5	10	QPSK 25_14	158600/793	0.176	24.01	25.00	1.256	0.221
Back side	5	10	QPSK 25_14	158600/793	0.778	24.01	25.00	1.256	0.977
Left side	5	10	QPSK 25_14	158600/793	0.040	24.01	25.00	1.256	0.050
Right side	5	10	QPSK 25_14	158600/793	0.142	24.01	25.00	1.256	0.178
Bottom side	5	10	QPSK 25_14	158600/793	0.418	24.01	25.00	1.256	0.525
Body 100%RB									
Back side	5	10	QPSK 50_0	158600/793	0.567	23.02	24.00	1.253	0.711
Body 1RB (NR+WLAN)									
Back side	5	10	QPSK 1_1	158600/793	0.671	23.27	24.00	1.183	0.794
Body 50%RB (NR+WLAN)									
Back side	5	10	QPSK 25_14	158600/793	0.613	23.12	24.00	1.225	0.751

Table 26: SAR of 5G NR n14.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back side	158600/793	0.866	0.845	1.025	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.20 SAR Measurement Result of 5G NR n25

Ant 4 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	40	QPSK 1_1	376500/1882.5	0.526	20.85	21.00	1.035	0.544
Left tilted	0	40	QPSK 1_1	376500/1882.5	0.316	20.85	21.00	1.035	0.327
Right cheek	0	40	QPSK 1_1	376500/1882.5	1.170	20.85	21.00	1.035	1.211
Right tilted	0	40	QPSK 1_1	376500/1882.5	0.709	20.85	21.00	1.035	0.734
Right cheek	0	40	QPSK 1_1	374000/1870	1.170	20.82	21.00	1.042	1.220
Right cheek	0	40	QPSK 1_1	379000/1895	1.130	20.83	21.00	1.040	1.175
Head 50%RB									
Left cheek	0	40	QPSK 108_54	376500/1882.5	0.528	20.83	21.00	1.040	0.549
Left tilted	0	40	QPSK 108_54	376500/1882.5	0.326	20.83	21.00	1.040	0.339
Right cheek	0	40	QPSK 108_54	376500/1882.5	1.150	20.83	21.00	1.040	1.196
Right tilted	0	40	QPSK 108_54	376500/1882.5	0.720	20.83	21.00	1.040	0.749
Right cheek	0	40	QPSK 108_54	374000/1870	1.200	20.81	21.00	1.045	1.254
Right cheek Repeat	0	40	QPSK 108_54	374000/1870	1.140	20.81	21.00	1.045	1.191
Right cheek	0	40	QPSK 108_54	379000/1895	1.140	20.79	21.00	1.050	1.196
Head 100%RB									
Right cheek	0	40	QPSK 216_0	376500/1882.5	1.030	20.80	21.00	1.047	1.079
Head 1RB (LTE+NR, NR+WLAN)									
Left cheek	0	40	QPSK 1_1	376500/1882.5	0.423	19.78	20.00	1.052	0.445
Right cheek	0	40	QPSK 1_1	376500/1882.5	0.931	19.78	20.00	1.052	0.979
Right cheek	0	40	QPSK 1_1	374000/1870	0.925	19.77	20.00	1.054	0.975
Right cheek	0	40	QPSK 1_1	379000/1895	0.891	19.75	20.00	1.059	0.944
Head 50%RB (LTE+NR, NR+WLAN)									
Left cheek	0	40	QPSK 108_54	376500/1882.5	0.421	19.76	20.00	1.057	0.445
Right cheek	0	40	QPSK 108_54	376500/1882.5	0.922	19.76	20.00	1.057	0.974
Right cheek	0	40	QPSK 108_54	374000/1870	0.958	19.75	20.00	1.059	1.015
Right cheek	0	40	QPSK 108_54	379000/1895	0.901	19.73	20.00	1.064	0.959
Head 100%RB (LTE+NR, NR+WLAN)									
Right cheek	0	40	QPSK 216_0	376500/1882.5	0.825	19.77	20.00	1.054	0.870
Head 1RB (LTE+NR+WLAN)									
Left cheek	0	40	QPSK 1_1	376500/1882.5	0.336	18.81	19.00	1.045	0.351
Right cheek	0	40	QPSK 1_1	376500/1882.5	0.731	18.81	19.00	1.045	0.764
Head 50%RB (LTE+NR+WLAN)									
Left cheek	0	40	QPSK 108_54	376500/1882.5	0.334	18.77	19.00	1.054	0.352
Right cheek	0	40	QPSK 108_54	376500/1882.5	0.718	18.77	19.00	1.054	0.757
Body 1RB									
Front side	5	40	QPSK 1_1	376500/1882.5	0.401	18.81	19.00	1.045	0.418
Back side	5	40	QPSK 1_1	376500/1882.5	1.010	18.81	19.00	1.045	1.055
Left side	5	40	QPSK 1_1	376500/1882.5	0.386	18.81	19.00	1.045	0.403
Top side	5	40	QPSK 1_1	376500/1882.5	0.152	18.81	19.00	1.045	0.159
Back side	5	40	QPSK 1_1	374000/1870	0.991	18.76	19.00	1.057	1.047
Back side	5	40	QPSK 1_1	379000/1895	1.040	18.79	19.00	1.050	1.092
Front side	16	40	QPSK 1_1	376500/1882.5	0.243	24.16	24.50	1.081	0.263
Back side	17	40	QPSK 1_1	376500/1882.5	0.441	24.16	24.50	1.081	0.477
Left side	15	40	QPSK 1_1	376500/1882.5	0.329	24.16	24.50	1.081	0.356
Top side	16	40	QPSK 1_1	376500/1882.5	0.142	24.16	24.50	1.081	0.154
Body 50%RB									
Front side	5	40	QPSK 108_54	376500/1882.5	0.407	18.77	19.00	1.054	0.429
Back side	5	40	QPSK 108_54	376500/1882.5	1.060	18.77	19.00	1.054	1.118
Left side	5	40	QPSK 108_54	376500/1882.5	0.394	18.77	19.00	1.054	0.415
Top side	5	40	QPSK 108_54	376500/1882.5	0.150	18.77	19.00	1.054	0.158
Back side	5	40	QPSK 108_54	374000/1870	1.020	18.71	19.00	1.069	1.090
Back side	5	40	QPSK 108_54	379000/1895	1.180	18.74	19.00	1.062	1.253
Back side Repeat	5	40	QPSK 108_54	379000/1895	1.110	18.74	19.00	1.062	1.178
Front side	16	40	QPSK 108_54	376500/1882.5	0.241	24.36	24.50	1.033	0.249

Back side	17	40	QPSK 108_54	376500/1882.5	0.446	24.36	24.50	1.033	0.461
Left side	15	40	QPSK 108_54	376500/1882.5	0.331	24.36	24.50	1.033	0.342
Top side	16	40	QPSK 108_54	376500/1882.5	0.138	24.36	24.50	1.033	0.143
Body 100%RB									
Back side	5	40	QPSK 216_0	376500/1882.5	0.957	18.76	19.00	1.057	1.011
Body 1RB (LTE+NR, NR+WLAN)									
Back side	5	40	QPSK 1_1	376500/1882.5	0.721	17.25	17.50	1.059	0.764
Body 50%RB (LTE+NR, NR+WLAN)									
Back side	5	40	QPSK 108_54	376500/1882.5	0.746	17.24	17.50	1.062	0.792
Body 1RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 1_1	376500/1882.5	0.400	14.73	15.00	1.064	0.426
Body 50%RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 108_54	376500/1882.5	0.416	14.71	15.00	1.069	0.445

Table 27: SAR of 5G NR n25.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	374000/1870	1.200	1.140	1.053	N/A	N/A
Back side	379000/1895	1.180	1.110	1.063	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.21 SAR Measurement Result of 5G NR n26

Ant 0 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	20	QPSK 1_1	166300/831.5	0.147	24.72	25.00	1.067	0.157
Left tilted	0	20	QPSK 1_1	166300/831.5	0.114	24.72	25.00	1.067	0.122
Right cheek	0	20	QPSK 1_1	166300/831.5	0.159	24.72	25.00	1.067	0.170
Right tilted	0	20	QPSK 1_1	166300/831.5	0.134	24.72	25.00	1.067	0.143
Head 50%RB									
Left cheek	0	20	QPSK 50_28	164800/824	0.162	24.65	25.00	1.084	0.176
Left tilted	0	20	QPSK 50_28	164800/824	0.110	24.65	25.00	1.084	0.119
Right cheek	0	20	QPSK 50_28	164800/824	0.170	24.65	25.00	1.084	0.184
Right tilted	0	20	QPSK 50_28	164800/824	0.130	24.65	25.00	1.084	0.141
Body 1RB									
Front side	5	20	QPSK 1_1	166300/831.5	0.326	23.88	24.00	1.028	0.335
Back side	5	20	QPSK 1_1	166300/831.5	1.200	23.88	24.00	1.028	1.234
Left side	5	20	QPSK 1_1	166300/831.5	0.044	23.88	24.00	1.028	0.045
Right side	5	20	QPSK 1_1	166300/831.5	0.264	23.88	24.00	1.028	0.271
Bottom side	5	20	QPSK 1_1	166300/831.5	0.605	23.88	24.00	1.028	0.622
Back side	5	20	QPSK 1_53	164800/824	0.757	23.72	24.00	1.067	0.807
Back side	5	20	QPSK 1_1	167800/839	1.210	23.70	24.00	1.072	1.297
Back side Repeat	5	20	QPSK 1_1	167800/839	1.190	23.70	24.00	1.072	1.275
Front side	16	20	QPSK 1_1	166300/831.5	0.111	24.72	25.00	1.067	0.118
Back side	17	20	QPSK 1_1	166300/831.5	0.208	24.72	25.00	1.067	0.222
Left side	15	20	QPSK 1_1	166300/831.5	0.011	24.72	25.00	1.067	0.012
Right side	15	20	QPSK 1_1	166300/831.5	0.083	24.72	25.00	1.067	0.089
Bottom side	17	20	QPSK 1_1	166300/831.5	0.149	24.72	25.00	1.067	0.159
Body 50%RB									
Front side	5	20	QPSK 50_28	164800/824	0.325	23.79	24.00	1.050	0.341
Back side	5	20	QPSK 50_28	164800/824	1.190	23.79	24.00	1.050	1.249
Left side	5	20	QPSK 50_28	164800/824	0.048	23.79	24.00	1.050	0.050
Right side	5	20	QPSK 50_28	164800/824	0.231	23.79	24.00	1.050	0.242
Bottom side	5	20	QPSK 50_28	164800/824	0.573	23.79	24.00	1.050	0.601
Back side	5	20	QPSK 50_28	166300/831.5	1.180	23.65	24.00	1.084	1.279
Back side	5	20	QPSK 50_28	167800/839	1.040	23.51	24.00	1.119	1.164
Front side	16	20	QPSK 50_28	164800/824	0.110	24.65	25.00	1.084	0.119
Back side	17	20	QPSK 50_28	164800/824	0.220	24.65	25.00	1.084	0.238
Left side	15	20	QPSK 50_28	164800/824	0.010	24.65	25.00	1.084	0.011
Right side	15	20	QPSK 50_28	164800/824	0.080	24.65	25.00	1.084	0.087
Bottom side	17	20	QPSK 50_28	164800/824	0.147	24.65	25.00	1.084	0.159
Body 100%RB									
Back side	5	20	QPSK 100_0	166300/831.5	0.944	23.71	24.00	1.069	1.009
Body 1RB (LTE+NR, NR+WLAN)									
Back side	5	20	QPSK 1_1	166300/831.5	0.772	21.93	22.00	1.016	0.785
Body 50%RB (LTE+NR, NR+WLAN)									
Back side	5	20	QPSK 50_28	164800/824	0.761	21.88	22.00	1.028	0.782
Body 1RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 1_1	166300/831.5	0.305	17.79	18.00	1.050	0.320
Body 50%RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 50_28	164800/824	0.302	17.71	18.00	1.069	0.323

Table 28: SAR of 5G NR n26.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	167800/839	1.210	1.190	1.017	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.22 SAR Measurement Result of 5G NR n41

Ant 4 Test Results											
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB											
Left cheek	0	100	QPSK 1_1	528000/2640	0.367	50.00%	1.258	25.12	26.00	1.225	0.565
Left tilted	0	100	QPSK 1_1	528000/2640	0.414	50.00%	1.258	25.12	26.00	1.225	0.638
Right cheek	0	100	QPSK 1_1	528000/2640	0.696	50.00%	1.258	25.12	26.00	1.225	1.072
Right tilted	0	100	QPSK 1_1	528000/2640	0.668	50.00%	1.258	25.12	26.00	1.225	1.029
Left tilted	0	100	QPSK 1_1	509202/2546.01	0.367	50.00%	1.258	25.06	26.00	1.242	0.573
Left tilted	0	100	QPSK 1_1	513900/2569.5	0.384	50.00%	1.258	25.07	26.00	1.239	0.598
Left tilted	0	100	QPSK 1_1	518598/2592.99	0.400	50.00%	1.258	25.11	26.00	1.227	0.618
Left tilted	0	100	QPSK 1_1	523302/2616.51	0.405	50.00%	1.258	25.10	26.00	1.230	0.627
Right cheek	0	100	QPSK 1_1	509202/2546.01	0.730	50.00%	1.258	25.06	26.00	1.242	1.140
Right cheek	0	100	QPSK 1_1	513900/2569.5	0.764	50.00%	1.258	25.07	26.00	1.239	1.191
Right cheek	0	100	QPSK 1_1	518598/2592.99	0.740	50.00%	1.258	25.11	26.00	1.227	1.143
Right cheek	0	100	QPSK 1_1	523302/2616.51	0.713	50.00%	1.258	25.10	26.00	1.230	1.103
Right tilted	0	100	QPSK 1_1	509202/2546.01	0.700	50.00%	1.258	25.06	26.00	1.242	1.093
Right tilted	0	100	QPSK 1_1	513900/2569.5	0.732	50.00%	1.258	25.07	26.00	1.239	1.141
Right tilted	0	100	QPSK 1_1	518598/2592.99	0.735	50.00%	1.258	25.11	26.00	1.227	1.135
Right tilted	0	100	QPSK 1_1	523302/2616.51	0.671	50.00%	1.258	25.10	26.00	1.230	1.038
Head 50%RB											
Left cheek	0	100	QPSK 135_69	528000/2640	0.340	50.00%	1.258	25.47	26.00	1.130	0.483
Left tilted	0	100	QPSK 135_69	528000/2640	0.355	50.00%	1.258	25.47	26.00	1.130	0.505
Right cheek	0	100	QPSK 135_69	528000/2640	0.580	50.00%	1.258	25.47	26.00	1.130	0.824
Right tilted	0	100	QPSK 135_69	528000/2640	0.553	50.00%	1.258	25.47	26.00	1.130	0.786
Right cheek	0	100	QPSK 135_69	509202/2546.01	0.710	50.00%	1.258	25.40	26.00	1.148	1.026
Right cheek	0	100	QPSK 135_69	513900/2569.5	0.686	50.00%	1.258	25.46	26.00	1.132	0.977
Right cheek	0	100	QPSK 135_69	518598/2592.99	0.655	50.00%	1.258	25.41	26.00	1.146	0.944
Right cheek	0	100	QPSK 135_69	523302/2616.51	0.626	50.00%	1.258	25.46	26.00	1.132	0.892
Right tilted	0	100	QPSK 135_69	509202/2546.01	0.688	50.00%	1.258	25.40	26.00	1.148	0.994
Right tilted	0	100	QPSK 135_69	513900/2569.5	0.669	50.00%	1.258	25.46	26.00	1.132	0.953
Right tilted	0	100	QPSK 135_69	518598/2592.99	0.640	50.00%	1.258	25.41	26.00	1.146	0.922
Right tilted	0	100	QPSK 135_69	523302/2616.51	0.597	50.00%	1.258	25.46	26.00	1.132	0.850
Head 100%RB											
Right cheek	0	100	QPSK 270_0	528000/2640	0.579	50.00%	1.258	24.97	26.00	1.268	0.923
Right tilted	0	100	QPSK 270_0	528000/2640	0.524	50.00%	1.258	24.97	26.00	1.268	0.836
Head 1RB (LTE+NR, NR+WLAN)											
Right cheek	0	100	QPSK 1_1	528000/2640	0.558	50.00%	1.258	24.18	25.00	1.208	0.848
Right tilted	0	100	QPSK 1_1	528000/2640	0.536	50.00%	1.258	24.18	25.00	1.208	0.814
Right cheek	0	100	QPSK 1_1	509202/2546.01	0.592	50.00%	1.258	24.11	25.00	1.227	0.914
Right cheek	0	100	QPSK 1_1	513900/2569.5	0.613	50.00%	1.258	24.12	25.00	1.225	0.944
Right cheek	0	100	QPSK 1_1	518598/2592.99	0.581	50.00%	1.258	24.15	25.00	1.216	0.889
Right cheek	0	100	QPSK 1_1	523302/2616.51	0.572	50.00%	1.258	24.14	25.00	1.219	0.877
Right tilted	0	100	QPSK 1_1	509202/2546.01	0.563	50.00%	1.258	24.11	25.00	1.227	0.869
Right tilted	0	100	QPSK 1_1	513900/2569.5	0.578	50.00%	1.258	24.12	25.00	1.225	0.890
Right tilted	0	100	QPSK 1_1	518598/2592.99	0.587	50.00%	1.258	24.15	25.00	1.216	0.898
Right tilted	0	100	QPSK 1_1	523302/2616.51	0.526	50.00%	1.258	24.14	25.00	1.219	0.807
Head 50%RB (LTE+NR, NR+WLAN)											
Right cheek	0	100	QPSK 135_69	528000/2640	0.465	50.00%	1.258	24.42	25.00	1.143	0.669
Right tilted	0	100	QPSK 135_69	528000/2640	0.433	50.00%	1.258	24.42	25.00	1.143	0.623
Right cheek	0	100	QPSK 135_69	509202/2546.01	0.571	50.00%	1.258	24.35	25.00	1.161	0.834
Right cheek	0	100	QPSK 135_69	513900/2569.5	0.553	50.00%	1.258	24.38	25.00	1.153	0.802
Right cheek	0	100	QPSK 135_69	518598/2592.99	0.521	50.00%	1.258	24.36	25.00	1.159	0.759
Right cheek	0	100	QPSK 135_69	523302/2616.51	0.507	50.00%	1.258	24.37	25.00	1.156	0.737
Right tilted	0	100	QPSK 135_69	509202/2546.01	0.557	50.00%	1.258	24.35	25.00	1.161	0.814
Right tilted	0	100	QPSK 135_69	513900/2569.5	0.522	50.00%	1.258	24.38	25.00	1.153	0.757
Right tilted	0	100	QPSK 135_69	518598/2592.99	0.512	50.00%	1.258	24.36	25.00	1.159	0.746
Right tilted	0	100	QPSK 135_69	523302/2616.51	0.482	50.00%	1.258	24.37	25.00	1.156	0.701
Head 100%RB (LTE+NR, NR+WLAN)											
Right cheek	0	100	QPSK 270_0	528000/2640	0.472	50.00%	1.258	24.03	25.00	1.250	0.742
Right tilted	0	100	QPSK 270_0	528000/2640	0.427	50.00%	1.258	24.03	25.00	1.250	0.672
Head 1RB (LTE+NR+WLAN)											
Left cheek	0	100	QPSK 1_1	528000/2640	0.229	50.00%	1.258	23.28	24.00	1.180	0.340
Right cheek	0	100	QPSK 1_1	528000/2640	0.402	50.00%	1.258	23.28	24.00	1.180	0.597

Right tilted	0	100	QPSK 1_1	528000/2640	0.400	50.00%	1.258	23.28	24.00	1.180	0.594
Head 50%RB (LTE+NR+WLAN)											
Left cheek	0	100	QPSK 135_69	528000/2640	0.218	50.00%	1.258	23.44	24.00	1.138	0.312
Right cheek	0	100	QPSK 135_69	528000/2640	0.362	50.00%	1.258	23.44	24.00	1.138	0.518
Right tilted	0	100	QPSK 135_69	528000/2640	0.353	50.00%	1.258	23.44	24.00	1.138	0.505
Body 1RB											
Front side	5	100	QPSK 1_1	528000/2640	0.110	50.00%	1.258	18.95	20.00	1.274	0.176
Back side	5	100	QPSK 1_1	528000/2640	0.658	50.00%	1.258	18.95	20.00	1.274	1.054
Left side	5	100	QPSK 1_1	528000/2640	0.109	50.00%	1.258	18.95	20.00	1.274	0.175
Top side	5	100	QPSK 1_1	528000/2640	0.331	50.00%	1.258	18.95	20.00	1.274	0.530
Back side	5	100	QPSK 1_1	509202/2546.01	0.685	50.00%	1.258	18.72	20.00	1.343	1.157
Back side	5	100	QPSK 1_1	513900/2569.5	0.769	50.00%	1.258	18.74	20.00	1.337	1.293
Back side	5	100	QPSK 1_1	518598/2592.99	0.667	50.00%	1.258	18.85	20.00	1.303	1.093
Back side	5	100	QPSK 1_1	523302/2616.51	0.625	50.00%	1.258	18.79	20.00	1.321	1.039
Front side	16	100	QPSK 1_1	528000/2640	0.120	50.00%	1.258	25.12	26.00	1.225	0.185
Back side	17	100	QPSK 1_1	528000/2640	0.543	50.00%	1.258	25.12	26.00	1.225	0.837
Left side	15	100	QPSK 1_1	528000/2640	0.175	50.00%	1.258	25.12	26.00	1.225	0.270
Top side	16	100	QPSK 1_1	528000/2640	0.334	50.00%	1.258	25.12	26.00	1.225	0.515
Back side	17	100	QPSK 1_1	509202/2546.01	0.511	50.00%	1.258	25.06	26.00	1.242	0.798
Back side	17	100	QPSK 1_1	513900/2569.5	0.509	50.00%	1.258	25.07	26.00	1.239	0.793
Back side	17	100	QPSK 1_1	518598/2592.99	0.560	50.00%	1.258	25.11	26.00	1.227	0.865
Back side	17	100	QPSK 1_1	523302/2616.51	0.510	50.00%	1.258	25.10	26.00	1.230	0.789
Body 50%RB											
Front side	5	100	QPSK 135_69	528000/2640	0.094	50.00%	1.258	18.82	20.00	1.312	0.155
Back side	5	100	QPSK 135_69	528000/2640	0.537	50.00%	1.258	18.82	20.00	1.312	0.886
Left side	5	100	QPSK 135_69	528000/2640	0.093	50.00%	1.258	18.82	20.00	1.312	0.154
Top side	5	100	QPSK 135_69	528000/2640	0.290	50.00%	1.258	18.82	20.00	1.312	0.479
Back side	5	100	QPSK 135_69	509202/2546.01	0.631	50.00%	1.258	18.77	20.00	1.327	1.054
Back side	5	100	QPSK 135_69	513900/2569.5	0.608	50.00%	1.258	18.80	20.00	1.318	1.008
Back side	5	100	QPSK 135_69	518598/2592.99	0.627	50.00%	1.258	18.75	20.00	1.334	1.052
Back side	5	100	QPSK 135_69	523302/2616.51	0.579	50.00%	1.258	18.74	20.00	1.337	0.974
Front side	16	100	QPSK 135_69	528000/2640	0.105	50.00%	1.258	25.47	26.00	1.130	0.149
Back side	17	100	QPSK 135_69	528000/2640	0.413	50.00%	1.258	25.47	26.00	1.130	0.587
Left side	15	100	QPSK 135_69	528000/2640	0.161	50.00%	1.258	25.47	26.00	1.130	0.229
Top side	16	100	QPSK 135_69	528000/2640	0.281	50.00%	1.258	25.47	26.00	1.130	0.399
Body 100%RB											
Back side	5	100	QPSK 270_0	528000/2640	0.605	50.00%	1.258	18.73	20.00	1.340	1.020
Back side	17	100	QPSK 270_0	528000/2640	0.381	50.00%	1.258	24.97	26.00	1.268	0.608
Body 1RB (LTE+NR, NR+WLAN)											
Back side	5	100	QPSK 1_1	528000/2640	0.456	50.00%	1.258	17.01	18.00	1.256	0.721
Body 50%RB (LTE+NR, NR+WLAN)											
Back side	5	100	QPSK 135_69	528000/2640	0.376	50.00%	1.258	16.93	18.00	1.279	0.605
Body 1RB (LTE+NR+WLAN)											
Back side	5	100	QPSK 1_1	528000/2640	0.216	50.00%	1.258	13.91	15.00	1.285	0.349
Body 50%RB (LTE+NR+WLAN)											
Back side	5	100	QPSK 135_69	528000/2640	0.185	50.00%	1.258	13.86	15.00	1.300	0.303

Table 29: SAR of 5G NR n41.

16.23 SAR Measurement Result of 5G NR n48

Ant 3 Test Results											
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB											
Left cheek	0	40	QPSK 1_1	640446/3606.69	0.290	50.00%	1.258	23.23	24.00	1.194	0.436
Left tilted	0	40	QPSK 1_1	640446/3606.69	0.304	50.00%	1.258	23.23	24.00	1.194	0.457
Right cheek	0	40	QPSK 1_1	640446/3606.69	0.808	50.00%	1.258	23.23	24.00	1.194	1.214
Right tilted	0	40	QPSK 1_1	640446/3606.69	0.389	50.00%	1.258	23.23	24.00	1.194	0.584
Right cheek	0	40	QPSK 1_1	638000/3570	0.857	50.00%	1.258	23.14	24.00	1.219	1.314
Right cheek Repeat	0	40	QPSK 1_1	638000/3570	0.854	50.00%	1.258	23.14	24.00	1.219	1.310
Right cheek	0	40	QPSK 1_1	642888/3643.32	0.786	50.00%	1.258	23.08	24.00	1.236	1.222
Right cheek	0	40	QPSK 1_1	645332/3679.98	0.760	50.00%	1.258	23.15	24.00	1.216	1.163
Head 50%RB											
Left cheek	0	40	QPSK 50_0	640446/3606.69	0.271	50.00%	1.258	23.17	24.00	1.211	0.413
Left tilted	0	40	QPSK 50_0	640446/3606.69	0.276	50.00%	1.258	23.17	24.00	1.211	0.420
Right cheek	0	40	QPSK 50_0	640446/3606.69	0.760	50.00%	1.258	23.17	24.00	1.211	1.157
Right tilted	0	40	QPSK 50_0	640446/3606.69	0.361	50.00%	1.258	23.17	24.00	1.211	0.550
Right cheek	0	40	QPSK 50_0	638000/3570	0.788	50.00%	1.258	23.12	24.00	1.225	1.214
Right cheek	0	40	QPSK 50_0	642888/3643.32	0.746	50.00%	1.258	23.13	24.00	1.222	1.147
Right cheek	0	40	QPSK 50_0	645332/3679.98	0.727	50.00%	1.258	23.10	24.00	1.230	1.125
Head 100%RB											
Right cheek	0	40	QPSK 100_0	640446/3606.69	0.603	50.00%	1.258	23.08	24.00	1.236	0.938
Head 1RB (LTE+WLAN)											
Right cheek	0	40	QPSK 1_1	640446/3606.69	0.640	50.00%	1.258	22.25	23.00	1.189	0.957
Right cheek	0	40	QPSK 1_1	638000/3570	0.687	50.00%	1.258	22.21	23.00	1.199	1.037
Right cheek	0	40	QPSK 1_1	642888/3643.32	0.631	50.00%	1.258	22.13	23.00	1.222	0.970
Right cheek	0	40	QPSK 1_1	645332/3679.98	0.605	50.00%	1.258	22.14	23.00	1.219	0.928
Head 50%RB (LTE+WLAN)											
Right cheek	0	40	QPSK 50_0	640446/3606.69	0.608	50.00%	1.258	22.19	23.00	1.205	0.922
Right cheek	0	40	QPSK 50_0	638000/3570	0.629	50.00%	1.258	22.15	23.00	1.216	0.962
Right cheek	0	40	QPSK 50_0	642888/3643.32	0.595	50.00%	1.258	22.17	23.00	1.211	0.906
Right cheek	0	40	QPSK 50_0	645332/3679.98	0.593	50.00%	1.258	22.11	23.00	1.227	0.916
Head 100%RB (LTE+WLAN)											
Right cheek	0	40	QPSK 100_0	640446/3606.69	0.512	50.00%	1.258	22.13	23.00	1.222	0.787
Body 1RB											
Front side	5	40	QPSK 1_1	640446/3606.69	0.227	50.00%	1.258	20.34	21.00	1.164	0.332
Back side	5	40	QPSK 1_1	640446/3606.69	0.700	50.00%	1.258	20.34	21.00	1.164	1.025
Left side	5	40	QPSK 1_1	640446/3606.69	0.654	50.00%	1.258	20.34	21.00	1.164	0.958
Top side	5	40	QPSK 1_1	640446/3606.69	0.223	50.00%	1.258	20.34	21.00	1.164	0.327
Back side	5	40	QPSK 1_1	638000/3570	0.689	50.00%	1.258	20.26	21.00	1.186	1.028
Back side	5	40	QPSK 1_1	642888/3643.32	0.735	50.00%	1.258	20.22	21.00	1.197	1.107
Back side	5	40	QPSK 1_1	645332/3679.98	0.927	50.00%	1.258	20.25	21.00	1.189	1.386
Back side Repeat	5	40	QPSK 1_1	645332/3679.98	0.864	50.00%	1.258	20.25	21.00	1.189	1.292
Left side	5	40	QPSK 1_1	638000/3570	0.616	50.00%	1.258	20.26	21.00	1.186	0.919
Left side	5	40	QPSK 1_1	642888/3643.32	0.639	50.00%	1.258	20.22	21.00	1.197	0.962
Left side	5	40	QPSK 1_1	645332/3679.98	0.631	50.00%	1.258	20.25	21.00	1.189	0.943
Front side	16	40	QPSK 1_1	640446/3606.69	0.119	50.00%	1.258	23.70	24.50	1.202	0.180
Back side	17	40	QPSK 1_1	640446/3606.69	0.394	50.00%	1.258	23.70	24.50	1.202	0.596
Left side	15	40	QPSK 1_1	640446/3606.69	0.321	50.00%	1.258	23.70	24.50	1.202	0.485
Top side	16	40	QPSK 1_1	640446/3606.69	0.247	50.00%	1.258	23.70	24.50	1.202	0.374
Body 50%RB											
Front side	5	40	QPSK 50_0	640446/3606.69	0.225	50.00%	1.258	20.13	21.00	1.222	0.346
Back side	5	40	QPSK 50_0	640446/3606.69	0.703	50.00%	1.258	20.13	21.00	1.222	1.081
Left side	5	40	QPSK 50_0	640446/3606.69	0.653	50.00%	1.258	20.13	21.00	1.222	1.004
Top side	5	40	QPSK 50_0	640446/3606.69	0.227	50.00%	1.258	20.13	21.00	1.222	0.349
Back side	5	40	QPSK 50_0	638000/3570	0.678	50.00%	1.258	20.09	21.00	1.233	1.052
Back side	5	40	QPSK 50_0	642888/3643.32	0.727	50.00%	1.258	20.10	21.00	1.230	1.125
Back side	5	40	QPSK 50_0	645332/3679.98	0.762	50.00%	1.258	20.07	21.00	1.239	1.188

Left side	5	40	QPSK 50_0	638000/3570	0.584	50.00%	1.258	20.09	21.00	1.233	0.906
Left side	5	40	QPSK 50_0	642888/3643.32	0.603	50.00%	1.258	20.10	21.00	1.230	0.933
Left side	5	40	QPSK 50_0	645332/3679.98	0.625	50.00%	1.258	20.07	21.00	1.239	0.974
Front side	16	40	QPSK 50_0	640446/3606.69	0.113	50.00%	1.258	23.66	24.50	1.213	0.172
Back side	17	40	QPSK 50_0	640446/3606.69	0.372	50.00%	1.258	23.66	24.50	1.213	0.568
Left side	15	40	QPSK 50_0	640446/3606.69	0.307	50.00%	1.258	23.66	24.50	1.213	0.469
Top side	16	40	QPSK 50_0	640446/3606.69	0.240	50.00%	1.258	23.66	24.50	1.213	0.366
Body 100%RB											
Back side	5	40	QPSK 100_0	640446/3606.69	0.642	50.00%	1.258	20.09	21.00	1.233	0.996
Left side	5	40	QPSK 100_0	640446/3606.69	0.623	50.00%	1.258	20.09	21.00	1.233	0.966
Body 1RB (NR+WLAN)											
Back side	5	40	QPSK 1_1	645332/3679.98	0.529	50.00%	1.258	17.86	18.50	1.159	0.771
Body 50%RB (NR+WLAN)											
Back side	5	40	QPSK 50_0	645332/3679.98	0.438	50.00%	1.258	17.70	18.50	1.202	0.662

Table 30: SAR of 5G NR n48.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	638000/3570	0.857	0.854	1.004	N/A	N/A
Back side	645332/3679.98	0.927	0.864	1.073	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.24 SAR Measurement Result of 5G NR n66

Ant 4 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	40	QPSK 1_1	349000/1745	0.483	21.37	21.50	1.030	0.498
Left tilted	0	40	QPSK 1_1	349000/1745	0.291	21.37	21.50	1.030	0.300
Right cheek	0	40	QPSK 1_1	349000/1745	1.040	21.37	21.50	1.030	1.072
Right tilted	0	40	QPSK 1_1	349000/1745	0.620	21.37	21.50	1.030	0.639
Right cheek	0	40	QPSK 1_1	346000/1730	1.020	21.35	21.50	1.035	1.056
Right cheek	0	40	QPSK 1_1	352000/1760	1.090	21.33	21.50	1.040	1.134
Head 50%RB									
Left cheek	0	40	QPSK 108_0	349000/1745	0.496	21.35	21.50	1.035	0.513
Left tilted	0	40	QPSK 108_0	349000/1745	0.300	21.35	21.50	1.035	0.311
Right cheek	0	40	QPSK 108_0	349000/1745	1.080	21.35	21.50	1.035	1.118
Right tilted	0	40	QPSK 108_0	349000/1745	0.653	21.35	21.50	1.035	0.676
Right cheek	0	40	QPSK 108_0	346000/1730	1.070	21.33	21.50	1.040	1.113
Right cheek	0	40	QPSK 108_0	352000/1760	1.240	21.32	21.50	1.042	1.292
Right cheek Repeat	0	40	QPSK 108_0	352000/1760	1.200	21.32	21.50	1.042	1.251
Head 100%RB									
Right cheek	0	40	QPSK 216_0	349000/1745	1.040	21.31	21.50	1.045	1.087
Head 1RB (LTE+NR, NR+WLAN)									
Right cheek	0	40	QPSK 1_1	349000/1745	0.835	20.36	20.50	1.033	0.862
Right cheek	0	40	QPSK 1_1	346000/1730	0.816	20.31	20.50	1.045	0.852
Right cheek	0	40	QPSK 1_1	352000/1760	0.873	20.34	20.50	1.038	0.906
Head 50%RB (LTE+NR, NR+WLAN)									
Right cheek	0	40	QPSK 108_0	349000/1745	0.849	20.25	20.50	1.059	0.899
Right cheek	0	40	QPSK 108_0	346000/1730	0.852	20.22	20.50	1.067	0.909
Right cheek	0	40	QPSK 108_0	352000/1760	0.976	20.20	20.50	1.072	1.046
Head 100%RB (LTE+NR, NR+WLAN)									
Right cheek	0	40	QPSK 216_0	349000/1745	0.818	20.21	20.50	1.069	0.874
Head 1RB (LTE+NR+WLAN)									
Left cheek	0	40	QPSK 1_1	349000/1745	0.310	19.42	19.50	1.019	0.316
Right cheek	0	40	QPSK 1_1	349000/1745	0.651	19.42	19.50	1.019	0.663
Head 50%RB (LTE+NR+WLAN)									
Left cheek	0	40	QPSK 108_0	349000/1745	0.316	19.40	19.50	1.023	0.323
Right cheek	0	40	QPSK 108_0	349000/1745	0.676	19.40	19.50	1.023	0.692
Body 1RB									
Front side	5	40	QPSK 1_1	349000/1745	0.523	20.36	20.50	1.033	0.540
Back side	5	40	QPSK 1_1	349000/1745	1.090	20.36	20.50	1.033	1.126
Left side	5	40	QPSK 1_1	349000/1745	0.506	20.36	20.50	1.033	0.523
Top side	5	40	QPSK 1_1	349000/1745	0.278	20.36	20.50	1.033	0.287
Back side	5	40	QPSK 1_1	346000/1730	1.170	20.31	20.50	1.045	1.222
Back side Repeat	5	40	QPSK 1_1	346000/1730	1.120	20.31	20.50	1.045	1.170
Back side	5	40	QPSK 1_1	352000/1760	1.070	20.34	20.50	1.038	1.110
Front side	16	40	QPSK 1_1	349000/1745	0.219	24.10	24.50	1.096	0.240
Back side	17	40	QPSK 1_1	349000/1745	0.325	24.10	24.50	1.096	0.356
Left side	15	40	QPSK 1_1	349000/1745	0.255	24.10	24.50	1.096	0.280
Top side	16	40	QPSK 1_1	349000/1745	0.115	24.10	24.50	1.096	0.126
Body 50%RB									
Front side	5	40	QPSK 108_0	349000/1745	0.567	20.37	20.50	1.030	0.584
Back side	5	40	QPSK 108_0	349000/1745	1.090	20.37	20.50	1.030	1.123
Left side	5	40	QPSK 108_0	349000/1745	0.517	20.37	20.50	1.030	0.533
Top side	5	40	QPSK 108_0	349000/1745	0.281	20.37	20.50	1.030	0.290
Back side	5	40	QPSK 108_0	346000/1730	1.100	20.32	20.50	1.042	1.147
Back side	5	40	QPSK 108_0	352000/1760	1.090	20.31	20.50	1.045	1.139
Front side	16	40	QPSK 108_54	349000/1745	0.171	24.31	24.50	1.045	0.179
Back side	17	40	QPSK 108_54	349000/1745	0.263	24.31	24.50	1.045	0.275
Left side	15	40	QPSK 108_54	349000/1745	0.193	24.31	24.50	1.045	0.202

Top side	16	40	QPSK 108_54	349000/1745	0.091	24.31	24.50	1.045	0.095
Body 100%RB									
Back side	5	40	QPSK 216_0	349000/1745	1.060	20.30	20.50	1.047	1.110
Body 1RB (LTE+NR, NR+WLAN)									
Back side	5	40	QPSK 1_1	349000/1745	0.696	18.29	18.50	1.050	0.730
Body 50%RB (LTE+NR, NR+WLAN)									
Back side	5	40	QPSK 108_0	349000/1745	0.691	18.25	18.50	1.059	0.732
Body 1RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 1_1	349000/1745	0.315	14.76	15.00	1.057	0.333
Body 50%RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 108_0	349000/1745	0.313	14.73	15.00	1.064	0.333

Table 31: SAR of 5G NR n66 Ant4.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	352000/1760	1.240	1.200	1.033	N/A	N/A
Back side	346000/1730	1.170	1.120	1.045	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 1 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	40	QPSK 1_1	349000/1745	0.365	24.09	24.50	1.099	0.401
Left tilted	0	40	QPSK 1_1	349000/1745	0.064	24.09	24.50	1.099	0.070
Right cheek	0	40	QPSK 1_1	349000/1745	0.125	24.09	24.50	1.099	0.137
Right tilted	0	40	QPSK 1_1	349000/1745	0.086	24.09	24.50	1.099	0.095
Head 50%RB									
Left cheek	0	40	QPSK 108_54	349000/1745	0.172	23.83	24.50	1.167	0.201
Left tilted	0	40	QPSK 108_54	349000/1745	0.060	23.83	24.50	1.167	0.070
Right cheek	0	40	QPSK 108_54	349000/1745	0.098	23.83	24.50	1.167	0.114
Right tilted	0	40	QPSK 108_54	349000/1745	0.076	23.83	24.50	1.167	0.089
Body 1RB									
Front side	5	40	QPSK 1_1	349000/1745	0.359	20.65	21.00	1.084	0.389
Back side	5	40	QPSK 1_1	349000/1745	0.712	20.65	21.00	1.084	0.772
Left side	5	40	QPSK 1_1	349000/1745	0.262	20.65	21.00	1.084	0.284
Bottom side	5	40	QPSK 1_1	349000/1745	0.174	20.65	21.00	1.084	0.189
Front side	16	40	QPSK 1_1	349000/1745	0.184	24.09	24.50	1.099	0.202
Back side	17	40	QPSK 1_1	349000/1745	0.287	24.09	24.50	1.099	0.315
Left side	15	40	QPSK 1_1	349000/1745	0.143	24.09	24.50	1.099	0.157
Bottom side	17	40	QPSK 1_1	349000/1745	0.093	24.09	24.50	1.099	0.102
Body 50%RB									
Front side	5	40	QPSK 108_54	349000/1745	0.342	20.36	21.00	1.159	0.396
Back side	5	40	QPSK 108_54	349000/1745	0.651	20.36	21.00	1.159	0.754
Left side	5	40	QPSK 108_54	349000/1745	0.254	20.36	21.00	1.159	0.294
Bottom side	5	40	QPSK 108_54	349000/1745	0.128	20.36	21.00	1.159	0.148
Front side	16	40	QPSK 108_54	349000/1745	0.136	23.83	24.50	1.167	0.159
Back side	17	40	QPSK 108_54	349000/1745	0.207	23.83	24.50	1.167	0.242
Left side	15	40	QPSK 108_54	349000/1745	0.103	23.83	24.50	1.167	0.120
Bottom side	17	40	QPSK 108_54	349000/1745	0.088	23.83	24.50	1.167	0.103
Body 1RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 1_1	349000/1745	0.364	17.60	18.00	1.096	0.399
Body 50%RB (LTE+NR+WLAN)									
Back side	5	40	QPSK 108_54	349000/1745	0.337	17.40	18.00	1.148	0.387

Table 32: SAR of 5G NR n66 Ant1.

16.25 SAR Measurement Result of 5G NR n71

Ant 0 Test Results									
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB									
Left cheek	0	20	QPSK 1_1	136100/680.5	0.168	24.22	25.00	1.197	0.201
Left tilted	0	20	QPSK 1_1	136100/680.5	0.082	24.22	25.00	1.197	0.098
Right cheek	0	20	QPSK 1_1	136100/680.5	0.218	24.22	25.00	1.197	0.261
Right tilted	0	20	QPSK 1_1	136100/680.5	0.099	24.22	25.00	1.197	0.118
Head 50%RB									
Left cheek	0	20	QPSK 50_28	136100/680.5	0.207	24.08	25.00	1.236	0.256
Left tilted	0	20	QPSK 50_28	136100/680.5	0.103	24.08	25.00	1.236	0.127
Right cheek	0	20	QPSK 50_28	136100/680.5	0.268	24.08	25.00	1.236	0.331
Right tilted	0	20	QPSK 50_28	136100/680.5	0.130	24.08	25.00	1.236	0.161
Body 1RB									
Front side	5	20	QPSK 1_1	136100/680.5	0.141	24.22	25.00	1.197	0.169
Back side	5	20	QPSK 1_1	136100/680.5	0.589	24.22	25.00	1.197	0.705
Left side	5	20	QPSK 1_1	136100/680.5	0.051	24.22	25.00	1.197	0.061
Right side	5	20	QPSK 1_1	136100/680.5	0.257	24.22	25.00	1.197	0.308
Bottom side	5	20	QPSK 1_1	136100/680.5	0.303	24.22	25.00	1.197	0.363
Body 50%RB									
Front side	5	20	QPSK 50_28	136100/680.5	0.215	24.17	25.00	1.211	0.260
Back side	5	20	QPSK 50_28	136100/680.5	0.769	24.17	25.00	1.211	0.931
Left side	5	20	QPSK 50_28	136100/680.5	0.072	24.17	25.00	1.211	0.087
Right side	5	20	QPSK 50_28	136100/680.5	0.251	24.17	25.00	1.211	0.304
Bottom side	5	20	QPSK 50_28	136100/680.5	0.394	24.17	25.00	1.211	0.477
Back side	5	20	QPSK 50_28	134600/673	0.649	23.86	25.00	1.300	0.844
Back side	5	20	QPSK 50_28	137600/688	0.875	24.16	25.00	1.213	1.062
Back side Repeat	5	20	QPSK 50_28	137600/688	0.874	24.16	25.00	1.213	1.061
Body 100%RB									
Back side	5	20	QPSK 100_0	136100/680.5	0.557	23.04	24.00	1.247	0.695
Body 1RB (LTE+NR, NR+WLAN)									
Back side	5	20	QPSK 1_1	136100/680.5	0.422	22.68	23.50	1.208	0.510
Body 50%RB (LTE+NR, NR+WLAN)									
Back side	5	20	QPSK 50_28	136100/680.5	0.541	22.60	23.50	1.230	0.666
Body 1RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 1_1	136100/680.5	0.241	20.24	21.00	1.191	0.287
Body 50%RB (LTE+NR+WLAN)									
Back side	5	20	QPSK 50_28	136100/680.5	0.311	20.09	21.00	1.233	0.383

Table 33: SAR of 5G NR n71.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	137600/688	0.875	0.874	1.001	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.26 SAR Measurement Result of 5G NR n77

Ant 3 Test Results											
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB											
Left cheek	0	100	QPSK 1_1	633334/3500.01	0.286	50.00%	1.258	22.65	23.50	1.216	0.438
Left tilted	0	100	QPSK 1_1	633334/3500.01	0.258	50.00%	1.258	22.65	23.50	1.216	0.395
Right cheek	0	100	QPSK 1_1	633334/3500.01	0.911	50.00%	1.258	22.65	23.50	1.216	1.394
Right cheek Repeat	0	100	QPSK 1_1	633334/3500.01	0.897	50.00%	1.258	22.65	23.50	1.216	1.372
Right tilted	0	100	QPSK 1_1	633334/3500.01	0.403	50.00%	1.258	22.65	23.50	1.216	0.617
Head 50%RB											
Left cheek	0	100	QPSK 135_69	633334/3500.01	0.279	50.00%	1.258	22.56	23.50	1.242	0.436
Left tilted	0	100	QPSK 135_69	633334/3500.01	0.251	50.00%	1.258	22.56	23.50	1.242	0.392
Right cheek	0	100	QPSK 135_69	633334/3500.01	0.794	50.00%	1.258	22.56	23.50	1.242	1.240
Right tilted	0	100	QPSK 135_69	633334/3500.01	0.370	50.00%	1.258	22.56	23.50	1.242	0.578
Head 100%RB											
Right cheek	0	100	QPSK 270_0	633334/3500.01	0.805	50.00%	1.258	22.54	23.50	1.247	1.263
Head 1RB (LTE+NR, NR+WLAN)											
Left cheek	0	100	QPSK 1_1	633334/3500.01	0.206	50.00%	1.258	21.19	22.00	1.205	0.312
Right cheek	0	100	QPSK 1_1	633334/3500.01	0.653	50.00%	1.258	21.19	22.00	1.205	0.990
Head 50%RB (LTE+NR, NR+WLAN)											
Left cheek	0	100	QPSK 135_69	633334/3500.01	0.204	50.00%	1.258	21.10	22.00	1.230	0.316
Right cheek	0	100	QPSK 135_69	633334/3500.01	0.572	50.00%	1.258	21.10	22.00	1.230	0.885
Head 100%RB (LTE+NR, NR+WLAN)											
Right cheek	0	100	QPSK 270_0	633334/3500.01	0.573	50.00%	1.258	21.07	22.00	1.239	0.893
Head 1RB (LTE+NR+WLAN)											
Right cheek	0	100	QPSK 1_1	633334/3500.01	0.516	50.00%	1.258	20.21	21.00	1.199	0.779
Head 50%RB (LTE+NR+WLAN)											
Right cheek	0	100	QPSK 135_69	633334/3500.01	0.449	50.00%	1.258	20.29	21.00	1.178	0.665
Body 1RB											
Front side	5	100	QPSK 1_1	633334/3500.01	0.347	50.00%	1.258	21.03	21.50	1.114	0.486
Back side	5	100	QPSK 1_1	633334/3500.01	0.999	50.00%	1.258	21.03	21.50	1.114	1.400
Back side Repeat	5	100	QPSK 1_1	633334/3500.01	0.942	50.00%	1.258	21.03	21.50	1.114	1.320
Left side	5	100	QPSK 1_1	633334/3500.01	0.784	50.00%	1.258	21.03	21.50	1.114	1.099
Top side	5	100	QPSK 1_1	633334/3500.01	0.294	50.00%	1.258	21.03	21.50	1.114	0.412
Front side	16	100	QPSK 1_1	633334/3500.01	0.232	50.00%	1.258	25.36	26.00	1.159	0.338
Back side	17	100	QPSK 1_1	633334/3500.01	0.510	50.00%	1.258	25.36	26.00	1.159	0.743
Left side	15	100	QPSK 1_1	633334/3500.01	0.608	50.00%	1.258	25.36	26.00	1.159	0.886
Top side	16	100	QPSK 1_1	633334/3500.01	0.324	50.00%	1.258	25.36	26.00	1.159	0.472
Body 50%RB											
Front side	5	100	QPSK 135_69	633334/3500.01	0.297	50.00%	1.258	21.01	21.50	1.119	0.418
Back side	5	100	QPSK 135_69	633334/3500.01	0.784	50.00%	1.258	21.01	21.50	1.119	1.104
Left side	5	100	QPSK 135_69	633334/3500.01	0.748	50.00%	1.258	21.01	21.50	1.119	1.053
Top side	5	100	QPSK 135_69	633334/3500.01	0.267	50.00%	1.258	21.01	21.50	1.119	0.376
Front side	16	100	QPSK 135_69	633334/3500.01	0.219	50.00%	1.258	25.35	26.00	1.161	0.320
Back side	17	100	QPSK 135_69	633334/3500.01	0.463	50.00%	1.258	25.35	26.00	1.161	0.676
Left side	15	100	QPSK 135_69	633334/3500.01	0.581	50.00%	1.258	25.35	26.00	1.161	0.849
Top side	16	100	QPSK 135_69	633334/3500.01	0.341	50.00%	1.258	25.35	26.00	1.161	0.498
Body 100%RB											
Back side	5	100	QPSK 270_0	633334/3500.01	0.777	50.00%	1.258	21.00	21.50	1.122	1.097
Left side	5	100	QPSK 270_0	633334/3500.01	0.756	50.00%	1.258	21.00	21.50	1.122	1.067
Left side	15	100	QPSK 270_0	633334/3500.01	0.446	50.00%	1.258	24.52	25.00	1.117	0.627
Body 1RB (LTE+NR, NR+WLAN)											
Back side	5	100	QPSK 1_1	633334/3500.01	0.571	50.00%	1.258	18.67	19.00	1.079	0.775
Left side	5	100	QPSK 1_1	633334/3500.01	0.445	50.00%	1.258	18.67	19.00	1.079	0.604
Body 50%RB (LTE+NR, NR+WLAN)											
Back side	5	100	QPSK 135_69	633334/3500.01	0.463	50.00%	1.258	18.51	19.00	1.119	0.652
Left side	5	100	QPSK 135_69	633334/3500.01	0.432	50.00%	1.258	18.51	19.00	1.119	0.608
Body 1RB (LTE+NR+WLAN)											

Back side	5	100	QPSK 1_1	633334/3500.01	0.355	50.00%	1.258	16.73	17.00	1.064	0.475
Body 50%RB (LTE+NR+WLAN)											
Back side	5	100	QPSK 135_69	633334/3500.01	0.282	50.00%	1.258	16.62	17.00	1.091	0.387

Table 34: SAR of 5G NR n77(3450~3550) Ant3.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	633334/3500.01	0.911	0.897	1.016	N/A	N/A
Back side	633334/3500.01	0.999	0.942	1.061	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 3 Test Results											
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB											
Left cheek	0	100	QPSK 1_1	650000/3750	0.337	50.00%	1.258	23.85	24.00	1.035	0.439
Left tilted	0	100	QPSK 1_1	650000/3750	0.301	50.00%	1.258	23.85	24.00	1.035	0.392
Right cheek	0	100	QPSK 1_1	650000/3750	0.973	50.00%	1.258	23.85	24.00	1.035	1.267
Right cheek Repeat	0	100	QPSK 1_1	650000/3750	0.966	50.00%	1.258	23.85	24.00	1.035	1.258
Right tilted	0	100	QPSK 1_1	650000/3750	0.495	50.00%	1.258	23.85	24.00	1.035	0.645
Left cheek	0	100	QPSK 1_1	652400/3786	0.317	50.00%	1.258	23.78	24.00	1.052	0.420
Left cheek	0	100	QPSK 1_1	654800/3822	0.314	50.00%	1.258	23.71	24.00	1.069	0.422
Left cheek	0	100	QPSK 1_1	657200/3858	0.317	50.00%	1.258	23.72	24.00	1.067	0.425
Left cheek	0	100	QPSK 1_1	659600/3894	0.324	50.00%	1.258	23.71	24.00	1.069	0.436
Left cheek	0	100	QPSK 1_1	662000/3930	0.339	50.00%	1.258	23.74	24.00	1.062	0.453
Right cheek	0	100	QPSK 1_1	652400/3786	0.828	50.00%	1.258	23.78	24.00	1.052	1.096
Right cheek	0	100	QPSK 1_1	654800/3822	0.773	50.00%	1.258	23.71	24.00	1.069	1.040
Right cheek	0	100	QPSK 1_1	657200/3858	0.734	50.00%	1.258	23.72	24.00	1.067	0.985
Right cheek	0	100	QPSK 1_1	659600/3894	0.762	50.00%	1.258	23.71	24.00	1.069	1.025
Right cheek	0	100	QPSK 1_1	662000/3930	0.806	50.00%	1.258	23.74	24.00	1.062	1.077
Right tilted	0	100	QPSK 1_1	652400/3786	0.499	50.00%	1.258	23.78	24.00	1.052	0.660
Right tilted	0	100	QPSK 1_1	654800/3822	0.487	50.00%	1.258	23.71	24.00	1.069	0.655
Right tilted	0	100	QPSK 1_1	657200/3858	0.484	50.00%	1.258	23.72	24.00	1.067	0.649
Right tilted	0	100	QPSK 1_1	659600/3894	0.474	50.00%	1.258	23.71	24.00	1.069	0.637
Right tilted	0	100	QPSK 1_1	662000/3930	0.483	50.00%	1.258	23.74	24.00	1.062	0.645
Head 50%RB											
Left cheek	0	100	QPSK 135_69	650000/3750	0.301	50.00%	1.258	23.86	24.00	1.033	0.391
Left tilted	0	100	QPSK 135_69	650000/3750	0.250	50.00%	1.258	23.86	24.00	1.033	0.325
Right cheek	0	100	QPSK 135_69	650000/3750	0.765	50.00%	1.258	23.86	24.00	1.033	0.994
Right tilted	0	100	QPSK 135_69	650000/3750	0.458	50.00%	1.258	23.86	24.00	1.033	0.595
Right cheek	0	100	QPSK 135_69	652400/3786	0.741	50.00%	1.258	23.71	24.00	1.069	0.997
Right cheek	0	100	QPSK 135_69	654800/3822	0.735	50.00%	1.258	23.74	24.00	1.062	0.982
Right cheek	0	100	QPSK 135_69	657200/3858	0.756	50.00%	1.258	23.71	24.00	1.069	1.017
Right cheek	0	100	QPSK 135_69	659600/3894	0.769	50.00%	1.258	23.81	24.00	1.045	1.011
Right cheek	0	100	QPSK 135_69	662000/3930	0.854	50.00%	1.258	23.82	24.00	1.042	1.120
Right tilted	0	100	QPSK 135_69	652400/3786	0.461	50.00%	1.258	23.71	24.00	1.069	0.620
Right tilted	0	100	QPSK 135_69	654800/3822	0.461	50.00%	1.258	23.74	24.00	1.062	0.616
Right tilted	0	100	QPSK 135_69	657200/3858	0.457	50.00%	1.258	23.71	24.00	1.069	0.615
Right tilted	0	100	QPSK 135_69	659600/3894	0.470	50.00%	1.258	23.81	24.00	1.045	0.618
Right tilted	0	100	QPSK 135_69	662000/3930	0.508	50.00%	1.258	23.82	24.00	1.042	0.666
Head 100%RB											
Right cheek	0	100	QPSK 270_0	650000/3750	0.778	50.00%	1.258	23.82	24.00	1.042	1.020
Head 1RB (LTE+NR, NR+WLAN)											
Left cheek	0	100	QPSK 1_1	650000/3750	0.236	50.00%	1.258	22.30	22.50	1.047	0.311

Right cheek	0	100	QPSK 1_1	650000/3750	0.692	50.00%	1.258	22.30	22.50	1.047	0.912
Right cheek	0	100	QPSK 1_1	652400/3786	0.595	50.00%	1.258	22.26	22.50	1.057	0.791
Right cheek	0	100	QPSK 1_1	654800/3822	0.557	50.00%	1.258	22.23	22.50	1.064	0.746
Right cheek	0	100	QPSK 1_1	657200/3858	0.526	50.00%	1.258	22.24	22.50	1.062	0.703
Right cheek	0	100	QPSK 1_1	659600/3894	0.531	50.00%	1.258	22.25	22.50	1.059	0.708
Right cheek	0	100	QPSK 1_1	662000/3930	0.578	50.00%	1.258	22.26	22.50	1.057	0.768
Head 50%RB (LTE+NR, NR+WLAN)											
Left cheek	0	100	QPSK 135_69	650000/3750	0.221	50.00%	1.258	22.31	22.50	1.045	0.290
Right cheek	0	100	QPSK 135_69	650000/3750	0.535	50.00%	1.258	22.31	22.50	1.045	0.703
Right cheek	0	100	QPSK 135_69	652400/3786	0.521	50.00%	1.258	22.24	22.50	1.062	0.696
Right cheek	0	100	QPSK 135_69	654800/3822	0.528	50.00%	1.258	22.22	22.50	1.067	0.708
Right cheek	0	100	QPSK 135_69	657200/3858	0.531	50.00%	1.258	22.23	22.50	1.064	0.711
Right cheek	0	100	QPSK 135_69	659600/3894	0.553	50.00%	1.258	22.27	22.50	1.054	0.734
Right cheek	0	100	QPSK 135_69	662000/3930	0.598	50.00%	1.258	22.25	22.50	1.059	0.797
Head 100%RB (LTE+NR, NR+WLAN)											
Right cheek	0	100	QPSK 270_0	650000/3750	0.547	50.00%	1.258	22.26	22.50	1.057	0.727
Head 1RB (LTE+NR+WLAN)											
Right cheek	0	100	QPSK 1_1	650000/3750	0.576	50.00%	1.258	21.39	21.50	1.026	0.743
Head 50%RB (LTE+NR+WLAN)											
Right cheek	0	100	QPSK 135_69	650000/3750	0.489	50.00%	1.258	21.37	21.50	1.030	0.634
Body 1RB											
Front side	5	100	QPSK 1_1	650000/3750	0.200	50.00%	1.258	18.91	19.50	1.146	0.288
Back side	5	100	QPSK 1_1	650000/3750	0.712	50.00%	1.258	18.91	19.50	1.146	1.026
Left side	5	100	QPSK 1_1	650000/3750	0.646	50.00%	1.258	18.91	19.50	1.146	0.931
Top side	5	100	QPSK 1_1	650000/3750	0.241	50.00%	1.258	18.91	19.50	1.146	0.347
Back side	5	100	QPSK 1_1	652400/3786	0.752	50.00%	1.258	18.82	19.50	1.169	1.106
Back side	5	100	QPSK 1_1	654800/3822	0.714	50.00%	1.258	18.74	19.50	1.191	1.070
Back side	5	100	QPSK 1_1	657200/3858	0.704	50.00%	1.258	18.73	19.50	1.194	1.057
Back side	5	100	QPSK 1_1	659600/3894	0.695	50.00%	1.258	18.70	19.50	1.202	1.051
Back side	5	100	QPSK 1_1	662000/3930	0.741	50.00%	1.258	18.79	19.50	1.178	1.098
Left side	5	100	QPSK 1_1	652400/3786	0.630	50.00%	1.258	18.82	19.50	1.169	0.927
Left side	5	100	QPSK 1_1	654800/3822	0.586	50.00%	1.258	18.74	19.50	1.191	0.878
Left side	5	100	QPSK 1_1	657200/3858	0.594	50.00%	1.258	18.73	19.50	1.194	0.892
Left side	5	100	QPSK 1_1	659600/3894	0.584	50.00%	1.258	18.70	19.50	1.202	0.883
Left side	5	100	QPSK 1_1	662000/3930	0.628	50.00%	1.258	18.79	19.50	1.178	0.930
Front side	16	100	QPSK 1_1	650000/3750	0.159	50.00%	1.258	25.18	26.00	1.208	0.242
Back side	17	100	QPSK 1_1	650000/3750	0.554	50.00%	1.258	25.18	26.00	1.208	0.842
Left side	15	100	QPSK 1_1	650000/3750	0.550	50.00%	1.258	25.18	26.00	1.208	0.836
Top side	16	100	QPSK 1_1	650000/3750	0.458	50.00%	1.258	25.18	26.00	1.208	0.696
Back side	17	100	QPSK 1_1	652400/3786	0.604	50.00%	1.258	25.16	26.00	1.213	0.922
Back side	17	100	QPSK 1_1	654800/3822	0.637	50.00%	1.258	25.05	26.00	1.245	0.997
Back side	17	100	QPSK 1_1	657200/3858	0.654	50.00%	1.258	25.09	26.00	1.233	1.015
Back side	17	100	QPSK 1_1	659600/3894	0.683	50.00%	1.258	25.14	26.00	1.219	1.047
Back side	17	100	QPSK 1_1	662000/3930	0.705	50.00%	1.258	25.15	26.00	1.216	1.079
Left side	15	100	QPSK 1_1	652400/3786	0.508	50.00%	1.258	25.16	26.00	1.213	0.775
Left side	15	100	QPSK 1_1	654800/3822	0.540	50.00%	1.258	25.05	26.00	1.245	0.845
Left side	15	100	QPSK 1_1	657200/3858	0.533	50.00%	1.258	25.09	26.00	1.233	0.827
Left side	15	100	QPSK 1_1	659600/3894	0.571	50.00%	1.258	25.14	26.00	1.219	0.876
Left side	15	100	QPSK 1_1	662000/3930	0.587	50.00%	1.258	25.15	26.00	1.216	0.898
Top side	16	100	QPSK 1_1	652400/3786	0.463	50.00%	1.258	25.16	26.00	1.213	0.707
Top side	16	100	QPSK 1_1	654800/3822	0.483	50.00%	1.258	25.05	26.00	1.245	0.756
Top side	16	100	QPSK 1_1	657200/3858	0.476	50.00%	1.258	25.09	26.00	1.233	0.738
Top side	16	100	QPSK 1_1	659600/3894	0.471	50.00%	1.258	25.14	26.00	1.219	0.722
Top side	16	100	QPSK 1_1	662000/3930	0.487	50.00%	1.258	25.15	26.00	1.216	0.745
Body 50%RB											
Front side	5	100	QPSK 135_69	650000/3750	0.178	50.00%	1.258	18.85	19.50	1.161	0.260
Back side	5	100	QPSK 135_69	650000/3750	0.709	50.00%	1.258	18.85	19.50	1.161	1.036
Left side	5	100	QPSK 135_69	650000/3750	0.596	50.00%	1.258	18.85	19.50	1.161	0.871
Top side	5	100	QPSK 135_69	650000/3750	0.245	50.00%	1.258	18.85	19.50	1.161	0.358
Back side	5	100	QPSK 135_69	652400/3786	0.682	50.00%	1.258	18.74	19.50	1.191	1.022
Back side	5	100	QPSK 135_69	654800/3822	0.675	50.00%	1.258	18.77	19.50	1.183	1.005

Back side	5	100	QPSK 135_69	657200/3858	0.691	50.00%	1.258	18.72	19.50	1.197	1.040
Back side	5	100	QPSK 135_69	659600/3894	0.740	50.00%	1.258	18.77	19.50	1.183	1.101
Back side	5	100	QPSK 135_69	662000/3930	0.863	50.00%	1.258	18.84	19.50	1.164	1.264
Back side Repeat	5	100	QPSK 135_69	662000/3930	0.826	50.00%	1.258	18.84	19.50	1.164	1.210
Left side	5	100	QPSK 135_69	652400/3786	0.572	50.00%	1.258	18.74	19.50	1.191	0.857
Left side	5	100	QPSK 135_69	654800/3822	0.584	50.00%	1.258	18.77	19.50	1.183	0.869
Left side	5	100	QPSK 135_69	657200/3858	0.595	50.00%	1.258	18.72	19.50	1.197	0.896
Left side	5	100	QPSK 135_69	659600/3894	0.621	50.00%	1.258	18.77	19.50	1.183	0.924
Left side	5	100	QPSK 135_69	662000/3930	0.623	50.00%	1.258	18.84	19.50	1.164	0.912
Front side	16	100	QPSK 135_69	650000/3750	0.142	50.00%	1.258	25.26	26.00	1.186	0.212
Back side	17	100	QPSK 135_69	650000/3750	0.589	50.00%	1.258	25.26	26.00	1.186	0.879
Left side	15	100	QPSK 135_69	650000/3750	0.510	50.00%	1.258	25.26	26.00	1.186	0.761
Top side	16	100	QPSK 135_69	650000/3750	0.453	50.00%	1.258	25.26	26.00	1.186	0.676
Back side	17	100	QPSK 135_69	652400/3786	0.628	50.00%	1.258	25.24	26.00	1.191	0.941
Back side	17	100	QPSK 135_69	654800/3822	0.642	50.00%	1.258	25.23	26.00	1.194	0.964
Back side	17	100	QPSK 135_69	657200/3858	0.668	50.00%	1.258	25.20	26.00	1.202	1.010
Back side	17	100	QPSK 135_69	659600/3894	0.693	50.00%	1.258	25.22	26.00	1.197	1.043
Back side	17	100	QPSK 135_69	662000/3930	0.711	50.00%	1.258	25.25	26.00	1.189	1.063
Left side	15	100	QPSK 135_69	652400/3786	0.524	50.00%	1.258	25.24	26.00	1.191	0.785
Left side	15	100	QPSK 135_69	654800/3822	0.555	50.00%	1.258	25.23	26.00	1.194	0.834
Left side	15	100	QPSK 135_69	657200/3858	0.554	50.00%	1.258	25.20	26.00	1.202	0.838
Left side	15	100	QPSK 135_69	659600/3894	0.566	50.00%	1.258	25.22	26.00	1.197	0.852
Left side	15	100	QPSK 135_69	662000/3930	0.586	50.00%	1.258	25.25	26.00	1.189	0.876
Top side	16	100	QPSK 135_69	652400/3786	0.467	50.00%	1.258	25.24	26.00	1.191	0.700
Top side	16	100	QPSK 135_69	654800/3822	0.468	50.00%	1.258	25.23	26.00	1.194	0.703
Top side	16	100	QPSK 135_69	657200/3858	0.474	50.00%	1.258	25.20	26.00	1.202	0.717
Top side	16	100	QPSK 135_69	659600/3894	0.491	50.00%	1.258	25.22	26.00	1.197	0.739
Top side	16	100	QPSK 135_69	662000/3930	0.479	50.00%	1.258	25.25	26.00	1.189	0.716
Body 100%RB											
Back side	5	100	QPSK 270_0	650000/3750	0.707	50.00%	1.258	18.84	19.50	1.164	1.035
Left side	5	100	QPSK 270_0	650000/3750	0.619	50.00%	1.258	18.84	19.50	1.164	0.907
Back side	17	100	QPSK 270_0	650000/3750	0.471	50.00%	1.258	24.35	25.00	1.161	0.688
Left side	15	100	QPSK 270_0	650000/3750	0.396	50.00%	1.258	24.35	25.00	1.161	0.579
Body 1RB (LTE+NR, NR+WLAN)											
Back side	5	100	QPSK 1_1	650000/3750	0.458	50.00%	1.258	16.93	17.50	1.140	0.657
Left side	5	100	QPSK 1_1	650000/3750	0.415	50.00%	1.258	16.93	17.50	1.140	0.595
Body 50%RB (LTE+NR, NR+WLAN)											
Back side	5	100	QPSK 135_69	650000/3750	0.462	50.00%	1.258	16.89	17.50	1.151	0.669
Left side	5	100	QPSK 135_69	650000/3750	0.408	50.00%	1.258	16.89	17.50	1.151	0.591
Body 1RB (LTE+NR+WLAN)											
Back side	5	100	QPSK 1_1	650000/3750	0.264	50.00%	1.258	14.49	15.00	1.125	0.373
Body 50%RB (LTE+NR+WLAN)											
Back side	5	100	QPSK 135_69	650000/3750	0.259	50.00%	1.258	14.37	15.00	1.156	0.377

Table 35: SAR of 5G NR n77(3700~3980) Ant3.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	650000/3750	0.973	0.966	1.007	N/A	N/A
Back side	662000/3930	0.863	0.826	1.045	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

16.27 SAR Measurement Result of 5G NR n77 MIMO

MIMO Test Results											
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB											
Left cheek	0	100	QPSK 1_1	633334/3500.01	0.212	50.00%	1.258	24.73	26.00	1.340	0.357
Left tilted	0	100	QPSK 1_1	633334/3500.01	0.201	50.00%	1.258	24.73	26.00	1.340	0.339
Right cheek	0	100	QPSK 1_1	633334/3500.01	0.717	50.00%	1.258	24.73	26.00	1.340	1.208
Right tilted	0	100	QPSK 1_1	633334/3500.01	0.318	50.00%	1.258	24.73	26.00	1.340	0.536
Head 50%RB											
Left cheek	0	100	QPSK 135_69	633334/3500.01	0.207	50.00%	1.258	24.81	26.00	1.315	0.342
Left tilted	0	100	QPSK 135_69	633334/3500.01	0.211	50.00%	1.258	24.81	26.00	1.315	0.349
Right cheek	0	100	QPSK 135_69	633334/3500.01	0.576	50.00%	1.258	24.81	26.00	1.315	0.953
Right tilted	0	100	QPSK 135_69	633334/3500.01	0.293	50.00%	1.258	24.81	26.00	1.315	0.485
Head 100%RB											
Right cheek	0	100	QPSK 270_0	633334/3500.01	0.574	50.00%	1.258	23.83	25.00	1.309	0.945
Head 1RB (NR+WLAN)											
Right cheek	0	100	QPSK 1_1	633334/3500.01	0.576	50.00%	1.258	23.79	25.00	1.321	0.957
Head 50%RB (NR+WLAN)											
Right cheek	0	100	QPSK 135_69	633334/3500.01	0.464	50.00%	1.258	23.82	25.00	1.312	0.766
Head 100%RB (NR+WLAN)											
Right cheek	0	100	QPSK 270_0	633334/3500.01	0.456	50.00%	1.258	22.93	24.00	1.279	0.734
Body 1RB											
Front side	5	100	QPSK 1_1	633334/3500.01	0.138	50.00%	1.258	20.84	22.00	1.306	0.227
Back side	5	100	QPSK 1_1	633334/3500.01	0.871	50.00%	1.258	20.84	22.00	1.306	1.431
Back side Repeat	5	100	QPSK 1_1	633334/3500.01	0.863	50.00%	1.258	20.84	22.00	1.306	1.418
Left side	5	100	QPSK 1_1	633334/3500.01	0.303	50.00%	1.258	20.84	22.00	1.306	0.498
Top side	5	100	QPSK 1_1	633334/3500.01	0.107	50.00%	1.258	20.84	22.00	1.306	0.176
Front side	16	100	QPSK 1_1	633334/3500.01	0.091	50.00%	1.258	24.73	26.00	1.340	0.153
Back side	17	100	QPSK 1_1	633334/3500.01	0.314	50.00%	1.258	24.73	26.00	1.340	0.529
Left side	15	100	QPSK 1_1	633334/3500.01	0.214	50.00%	1.258	24.73	26.00	1.340	0.361
Top side	16	100	QPSK 1_1	633334/3500.01	0.128	50.00%	1.258	24.73	26.00	1.340	0.216
Body 50%RB											
Front side	5	100	QPSK 135_69	633334/3500.01	0.139	50.00%	1.258	20.82	22.00	1.312	0.229
Back side	5	100	QPSK 135_69	633334/3500.01	0.820	50.00%	1.258	20.82	22.00	1.312	1.354
Left side	5	100	QPSK 135_69	633334/3500.01	0.314	50.00%	1.258	20.82	22.00	1.312	0.518
Top side	5	100	QPSK 135_69	633334/3500.01	0.110	50.00%	1.258	20.82	22.00	1.312	0.182
Front side	16	100	QPSK 135_69	633334/3500.01	0.086	50.00%	1.258	24.81	26.00	1.315	0.142
Back side	17	100	QPSK 135_69	633334/3500.01	0.238	50.00%	1.258	24.81	26.00	1.315	0.394
Left side	15	100	QPSK 135_69	633334/3500.01	0.225	50.00%	1.258	24.81	26.00	1.315	0.372
Top side	16	100	QPSK 135_69	633334/3500.01	0.140	50.00%	1.258	24.81	26.00	1.315	0.232
Body 100%RB											
Back side	5	100	QPSK 270_0	633334/3500.01	0.748	50.00%	1.258	20.98	22.00	1.265	1.190
Back side	17	100	QPSK 270_0	633334/3500.01	0.172	50.00%	1.258	23.83	25.00	1.309	0.283
Body 1RB (NR+WLAN)											
Back side	5	100	QPSK 1_1	633334/3500.01	0.488	50.00%	1.258	18.38	19.50	1.294	0.795
Body 50%RB (NR+WLAN)											
Back side	5	100	QPSK 135_69	633334/3500.01	0.469	50.00%	1.258	18.35	19.50	1.303	0.769

Table 36: SAR of 5G NR n77(3450~3550) (MIMO).

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	633334/3500.01	0.871	0.863	1.009	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

MIMO Test Results											
Test position	Test Distance (mm)	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head 1RB											
Left cheek	0	100	QPSK 1 1	650000/3750	0.166	50.00%	1.258	24.74	26.00	1.337	0.279
Left tilted	0	100	QPSK 1 1	650000/3750	0.164	50.00%	1.258	24.74	26.00	1.337	0.276
Right cheek	0	100	QPSK 1 1	650000/3750	0.472	50.00%	1.258	24.74	26.00	1.337	0.794
Right tilted	0	100	QPSK 1 1	650000/3750	0.236	50.00%	1.258	24.74	26.00	1.337	0.397
Right cheek	0	100	QPSK 1 1	652400/3786	0.429	50.00%	1.258	24.59	26.00	1.384	0.747
Right cheek	0	100	QPSK 1 1	654800/3822	0.394	50.00%	1.258	24.59	26.00	1.384	0.686
Right cheek	0	100	QPSK 1 1	657200/3858	0.361	50.00%	1.258	24.56	26.00	1.393	0.633
Right cheek	0	100	QPSK 1 1	659600/3894	0.369	50.00%	1.258	24.57	26.00	1.390	0.645
Right cheek	0	100	QPSK 1 1	662000/3930	0.402	50.00%	1.258	24.55	26.00	1.396	0.706
Head 50%RB											
Left cheek	0	100	QPSK 135 69	650000/3750	0.142	50.00%	1.258	24.59	26.00	1.384	0.247
Left tilted	0	100	QPSK 135 69	650000/3750	0.150	50.00%	1.258	24.59	26.00	1.384	0.261
Right cheek	0	100	QPSK 135 69	650000/3750	0.428	50.00%	1.258	24.59	26.00	1.384	0.745
Right tilted	0	100	QPSK 135 69	650000/3750	0.222	50.00%	1.258	24.59	26.00	1.384	0.386
Right cheek	0	100	QPSK 135 69	652400/3786	0.381	50.00%	1.258	24.53	26.00	1.403	0.672
Right cheek	0	100	QPSK 135 69	654800/3822	0.367	50.00%	1.258	24.41	26.00	1.442	0.666
Right cheek	0	100	QPSK 135 69	657200/3858	0.365	50.00%	1.258	24.40	26.00	1.445	0.664
Right cheek	0	100	QPSK 135 69	659600/3894	0.386	50.00%	1.258	24.45	26.00	1.429	0.694
Right cheek	0	100	QPSK 135 69	662000/3930	0.402	50.00%	1.258	24.46	26.00	1.426	0.721
Body 1RB											
Front side	5	100	QPSK 1 1	650000/3750	0.093	50.00%	1.258	20.88	22.00	1.294	0.151
Back side	5	100	QPSK 1 1	650000/3750	0.468	50.00%	1.258	20.88	22.00	1.294	0.762
Left side	5	100	QPSK 1 1	650000/3750	0.327	50.00%	1.258	20.88	22.00	1.294	0.532
Top side	5	100	QPSK 1 1	650000/3750	0.106	50.00%	1.258	20.88	22.00	1.294	0.173
Back side	5	100	QPSK 1 1	652400/3786	0.451	50.00%	1.258	20.75	22.00	1.334	0.757
Back side	5	100	QPSK 1 1	654800/3822	0.533	50.00%	1.258	20.74	22.00	1.337	0.896
Back side	5	100	QPSK 1 1	657200/3858	0.614	50.00%	1.258	20.70	22.00	1.349	1.042
Back side	5	100	QPSK 1 1	659600/3894	0.745	50.00%	1.258	20.70	22.00	1.349	1.264
Back side	5	100	QPSK 1 1	662000/3930	0.724	50.00%	1.258	20.66	22.00	1.361	1.240
Left side	5	100	QPSK 1 1	652400/3786	0.260	50.00%	1.258	20.75	22.00	1.334	0.436
Left side	5	100	QPSK 1 1	654800/3822	0.264	50.00%	1.258	20.74	22.00	1.337	0.444
Left side	5	100	QPSK 1 1	657200/3858	0.268	50.00%	1.258	20.70	22.00	1.349	0.455
Left side	5	100	QPSK 1 1	659600/3894	0.274	50.00%	1.258	20.70	22.00	1.349	0.465
Left side	5	100	QPSK 1 1	662000/3930	0.276	50.00%	1.258	20.66	22.00	1.361	0.473
Front side	16	100	QPSK 1 1	650000/3750	0.066	50.00%	1.258	24.74	26.00	1.337	0.111
Back side	17	100	QPSK 1 1	650000/3750	0.234	50.00%	1.258	24.74	26.00	1.337	0.393
Left side	15	100	QPSK 1 1	650000/3750	0.213	50.00%	1.258	24.74	26.00	1.337	0.358
Top side	16	100	QPSK 1 1	650000/3750	0.152	50.00%	1.258	24.74	26.00	1.337	0.256
Body 50%RB											
Front side	5	100	QPSK 135 69	650000/3750	0.076	50.00%	1.258	20.99	22.00	1.262	0.121
Back side	5	100	QPSK 135 69	650000/3750	0.507	50.00%	1.258	20.99	22.00	1.262	0.805
Left side	5	100	QPSK 135 69	650000/3750	0.241	50.00%	1.258	20.99	22.00	1.262	0.383
Top side	5	100	QPSK 135 69	650000/3750	0.099	50.00%	1.258	20.99	22.00	1.262	0.157
Back side	5	100	QPSK 135 69	652400/3786	0.573	50.00%	1.258	20.89	22.00	1.291	0.931
Back side	5	100	QPSK 135 69	654800/3822	0.667	50.00%	1.258	20.91	22.00	1.285	1.078
Back side	5	100	QPSK 135 69	657200/3858	0.699	50.00%	1.258	20.86	22.00	1.300	1.143
Back side	5	100	QPSK 135 69	659600/3894	0.712	50.00%	1.258	20.83	22.00	1.309	1.173
Back side	5	100	QPSK 135 69	662000/3930	0.815	50.00%	1.258	20.80	22.00	1.318	1.352
Back side Repeat	5	100	QPSK 135 69	662000/3930	0.811	50.00%	1.258	20.80	22.00	1.318	1.345
Front side	16	100	QPSK 1 1	650000/3750	0.064	50.00%	1.258	24.59	26.00	1.384	0.111
Back side	17	100	QPSK 1 1	650000/3750	0.225	50.00%	1.258	24.59	26.00	1.384	0.392
Left side	15	100	QPSK 1 1	650000/3750	0.190	50.00%	1.258	24.59	26.00	1.384	0.331
Top side	16	100	QPSK 1 1	650000/3750	0.151	50.00%	1.258	24.59	26.00	1.384	0.263
Body 100%RB											
Back side	5	100	QPSK 270 0	650000/3750	0.552	50.00%	1.258	20.96	22.00	1.271	0.882
Body 1RB (NR+WLAN)											
Back side	5	100	QPSK 1 1	662000/3930	0.411	50.00%	1.258	18.44	19.50	1.276	0.660
Body 50%RB (NR+WLAN)											
Back side	5	100	QPSK 135 69	662000/3930	0.443	50.00%	1.258	18.41	19.50	1.285	0.716

Table 37: SAR of 5G NR n77(3700~3980) (MIMO).

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	662000/3930	0.815	0.811	1.005	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

16.28 SAR Measurement Result of WIFI 2.4G

Ant 6 Test Results										
Test position	Test Distance (mm)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head										
Left cheek	0	802.11b	11/2462	0.809	98.08%	1.020	19.92	21.00	1.282	1.058
Left cheek Repeat	0	802.11b	11/2462	0.808	98.08%	1.020	19.92	21.00	1.282	1.057
Left tilted	0	802.11b	11/2462	0.588	98.08%	1.020	19.92	21.00	1.282	0.769
Right cheek	0	802.11b	11/2462	0.326	98.08%	1.020	19.92	21.00	1.282	0.426
Right tilted	0	802.11b	11/2462	0.321	98.08%	1.020	19.92	21.00	1.282	0.420
Left cheek	0	802.11b	1/2412	0.781	98.08%	1.020	19.79	21.00	1.321	1.053
Left cheek	0	802.11b	6/2437	0.755	98.08%	1.020	19.65	21.00	1.365	1.051
Head Simultaneous										
Left cheek	0	802.11b	11/2462	0.315	98.08%	1.020	15.98	17.00	1.265	0.406
Left tilted	0	802.11b	11/2462	0.231	98.08%	1.020	15.98	17.00	1.265	0.298
Right cheek	0	802.11b	11/2462	0.132	98.08%	1.020	15.98	17.00	1.265	0.170
Right tilted	0	802.11b	11/2462	0.124	98.08%	1.020	15.98	17.00	1.265	0.160
Body										
Front side	5	802.11b	11/2462	0.366	98.08%	1.020	19.92	21.00	1.282	0.479
Back side	5	802.11b	11/2462	0.691	98.08%	1.020	19.92	21.00	1.282	0.904
Right side	5	802.11b	11/2462	0.241	98.08%	1.020	19.92	21.00	1.282	0.315
Top side	5	802.11b	11/2462	0.536	98.08%	1.020	19.92	21.00	1.282	0.701
Back side	5	802.11b	1/2412	0.632	98.08%	1.020	19.79	21.00	1.321	0.852
Back side	5	802.11b	6/2437	0.611	98.08%	1.020	19.65	21.00	1.365	0.850
Body Simultaneous										
Front side	5	802.11b	11/2462	0.092	98.08%	1.020	14.05	15.00	1.245	0.117
Back side	5	802.11b	11/2462	0.174	98.08%	1.020	14.05	15.00	1.245	0.221
Right side	5	802.11b	11/2462	0.061	98.08%	1.020	14.05	15.00	1.245	0.077
Top side	5	802.11b	11/2462	0.135	98.08%	1.020	14.05	15.00	1.245	0.171
Ant 7 Test Results										
Test position	Test Distance (mm)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head										
Left cheek	0	802.11b	11/2462	0.320	98.08%	1.020	19.45	20.50	1.274	0.416
Left tilted	0	802.11b	11/2462	0.151	98.08%	1.020	19.45	20.50	1.274	0.196
Right cheek	0	802.11b	11/2462	0.132	98.08%	1.020	19.45	20.50	1.274	0.171
Right tilted	0	802.11b	11/2462	0.055	98.08%	1.020	19.45	20.50	1.274	0.071
Head Simultaneous										
Left cheek	0	802.11b	11/2462	0.132	98.08%	1.020	15.49	16.50	1.262	0.170
Left tilted	0	802.11b	11/2462	0.065	98.08%	1.020	15.49	16.50	1.262	0.084
Right cheek	0	802.11b	11/2462	0.059	98.08%	1.020	15.49	16.50	1.262	0.076
Right tilted	0	802.11b	11/2462	0.026	98.08%	1.020	15.49	16.50	1.262	0.033
Body										
Front side	5	802.11b	11/2462	0.183	98.08%	1.020	19.45	20.50	1.274	0.238
Back side	5	802.11b	11/2462	0.651	98.08%	1.020	19.45	20.50	1.274	0.846
Right side	5	802.11b	11/2462	0.593	98.08%	1.020	19.45	20.50	1.274	0.770
Top side	5	802.11b	11/2462	0.137	98.08%	1.020	19.45	20.50	1.274	0.178
Back side	5	802.11b	1/2412	0.593	98.08%	1.020	19.06	20.50	1.393	0.843
Back side	5	802.11b	6/2437	0.618	98.08%	1.020	19.25	20.50	1.334	0.841
Body Simultaneous										
Front side	5	802.11b	11/2462	0.042	98.08%	1.020	13.53	14.50	1.250	0.054
Back side	5	802.11b	11/2462	0.155	98.08%	1.020	13.53	14.50	1.250	0.198
Right side	5	802.11b	11/2462	0.141	98.08%	1.020	13.53	14.50	1.250	0.180
Top side	5	802.11b	11/2462	0.031	98.08%	1.020	13.53	14.50	1.250	0.040

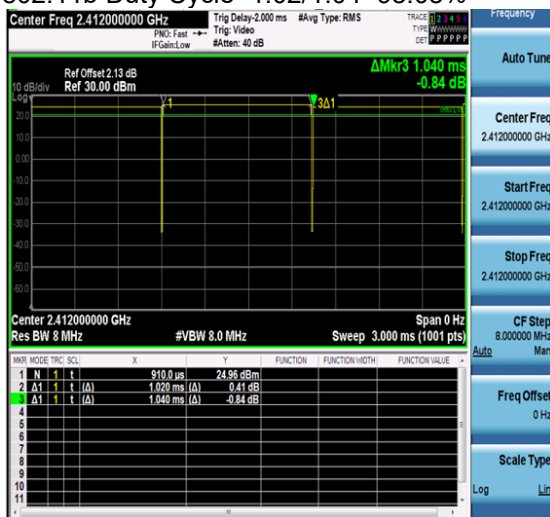
MIMO Test Results										
Test position	Test Distance (mm)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head										
Left cheek	0	802.11ax 20M	11/2462	0.276	99.41%	1.006	18.51	19.50	1.256	0.349
Left tilted	0	802.11ax 20M	11/2462	0.215	99.41%	1.006	18.51	19.50	1.256	0.272
Right cheek	0	802.11ax 20M	11/2462	0.102	99.41%	1.006	18.51	19.50	1.256	0.129
Right tilted	0	802.11ax 20M	11/2462	0.103	99.41%	1.006	18.51	19.50	1.256	0.130
Head Simultaneous										
Left cheek	0	802.11ax 20M	11/2462	0.121	99.41%	1.006	14.57	15.50	1.239	0.151
Left tilted	0	802.11ax 20M	11/2462	0.092	99.41%	1.006	14.57	15.50	1.239	0.115
Right cheek	0	802.11ax 20M	11/2462	0.048	99.41%	1.006	14.57	15.50	1.239	0.060
Right tilted	0	802.11ax 20M	11/2462	0.040	99.41%	1.006	14.57	15.50	1.239	0.050
Body										
Front side	5	802.11ax 20M	11/2462	0.155	99.41%	1.006	18.51	19.50	1.256	0.196
Back side	5	802.11ax 20M	11/2462	0.764	99.41%	1.006	18.51	19.50	1.256	0.965
Right side	5	802.11ax 20M	11/2462	0.184	99.41%	1.006	18.51	19.50	1.256	0.232
Top side	5	802.11ax 20M	11/2462	0.180	99.41%	1.006	18.51	19.50	1.256	0.227
Back side	5	802.11ax 20M	1/2412	0.655	99.41%	1.006	17.92	19.50	1.439	0.948
Back side	5	802.11ax 20M	6/2437	0.701	99.41%	1.006	18.15	19.50	1.365	0.962
Body Simultaneous										
Front side	5	802.11ax 20M	11/2462	0.045	99.41%	1.006	13.66	14.50	1.213	0.055
Back side	5	802.11ax 20M	11/2462	0.235	99.41%	1.006	13.66	14.50	1.213	0.287
Right side	5	802.11ax 20M	11/2462	0.054	99.41%	1.006	13.66	14.50	1.213	0.066
Top side	5	802.11ax 20M	11/2462	0.052	99.41%	1.006	13.66	14.50	1.213	0.063

Table 1: SAR of WIFI 2.4G.

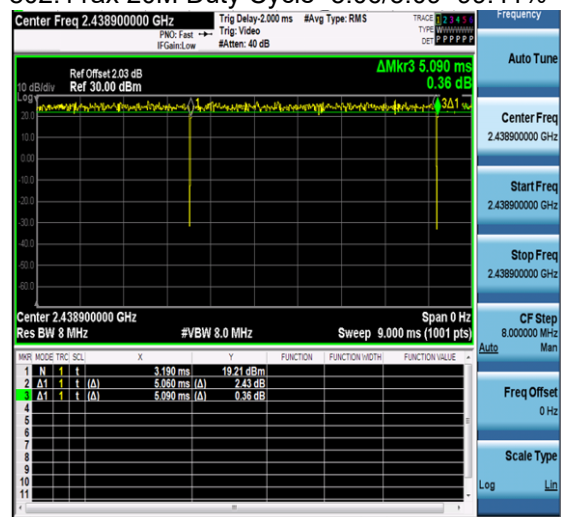
Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	11/2462	0.809	0.808	1.001	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

802.11b Duty Cycle=1.02/1.04=98.08%



802.11ax 20M Duty Cycle=5.06/5.09=99.41%



16.29 SAR Measurement Result of WIFI 5G

Ant 6 Test Results										
Test position	Test Distance (mm)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
U-NII-1A Head										
Left cheek	0	802.11a	48/5240	0.919	95.00%	1.053	18.38	19.00	1.153	1.116
Left tilted	0	802.11a	48/5240	1.030	95.00%	1.053	18.38	19.00	1.153	1.251
Right cheek	0	802.11a	48/5240	0.942	95.00%	1.053	18.38	19.00	1.153	1.144
Right tilted	0	802.11a	48/5240	1.070	95.00%	1.053	18.38	19.00	1.153	1.300
Right cheek	0	802.11a	36/5180	0.832	95.00%	1.053	18.21	19.00	1.199	1.051
Right cheek	0	802.11a	40/5200	0.863	95.00%	1.053	18.12	19.00	1.225	1.113
Right tilted	0	802.11a	36/5180	0.895	95.00%	1.053	18.21	19.00	1.199	1.130
Right tilted	0	802.11a	40/5200	0.930	95.00%	1.053	18.12	19.00	1.225	1.199
Left cheek	0	802.11a	36/5180	0.818	95.00%	1.053	18.21	19.00	1.199	1.033
Left cheek	0	802.11a	40/5200	0.793	95.00%	1.053	18.12	19.00	1.225	1.023
Left tilted	0	802.11a	36/5180	0.941	95.00%	1.053	18.21	19.00	1.199	1.189
Left tilted	0	802.11a	40/5200	0.939	95.00%	1.053	18.12	19.00	1.225	1.211
U-NII-2A Head										
Left cheek	0	802.11a	52/5260	0.879	95.00%	1.053	18.44	19.00	1.138	1.053
Left tilted	0	802.11a	52/5260	0.998	95.00%	1.053	18.44	19.00	1.138	1.196
Right cheek	0	802.11a	52/5260	0.877	95.00%	1.053	18.44	19.00	1.138	1.051
Right tilted	0	802.11a	52/5260	0.978	95.00%	1.053	18.44	19.00	1.138	1.172
Right tilted	0	802.11a	60/5300	1.070	95.00%	1.053	18.37	19.00	1.156	1.303
Right tilted	0	802.11a	64/5320	0.983	95.00%	1.053	18.26	19.00	1.186	1.227
Left cheek	0	802.11a	60/5300	0.953	95.00%	1.053	18.37	19.00	1.156	1.160
Left cheek	0	802.11a	64/5320	0.914	95.00%	1.053	18.26	19.00	1.186	1.141
Left tilted	0	802.11a	60/5300	1.010	95.00%	1.053	18.37	19.00	1.156	1.230
Left tilted	0	802.11a	64/5320	0.974	95.00%	1.053	18.26	19.00	1.186	1.216
Right cheek	0	802.11a	60/5300	0.968	95.00%	1.053	18.37	19.00	1.156	1.178
Right cheek	0	802.11a	64/5320	0.941	95.00%	1.053	18.26	19.00	1.186	1.175
U-NII-2C Head										
Left cheek	0	802.11ac 80M	122/5610	0.586	95.00%	1.053	13.51	14.00	1.119	0.691
Left tilted	0	802.11ac 80M	122/5610	0.598	95.00%	1.053	13.51	14.00	1.119	0.705
Right cheek	0	802.11ac 80M	122/5610	0.600	95.00%	1.053	13.51	14.00	1.119	0.707
Right tilted	0	802.11ac 80M	122/5610	0.717	95.00%	1.053	13.51	14.00	1.119	0.845
Right tilted	0	802.11ac 80M	106/5530	0.835	95.00%	1.053	13.50	14.00	1.122	0.987
Right tilted	0	802.11ac 80M	138/5690	1.070	95.00%	1.053	13.48	14.00	1.127	1.270
U-NII-3 Head										
Left cheek	0	802.11ac 80M	155/5775	0.686	95.00%	1.053	13.86	14.50	1.159	0.837
Left tilted	0	802.11ac 80M	155/5775	0.698	95.00%	1.053	13.86	14.50	1.159	0.852
Right cheek	0	802.11ac 80M	155/5775	0.890	95.00%	1.053	13.86	14.50	1.159	1.086
Right tilted	0	802.11ac 80M	155/5775	1.070	95.00%	1.053	13.86	14.50	1.159	1.306
Right tilted Repeat	0	802.11ac 80M	155/5775	1.040	95.00%	1.053	13.86	14.50	1.159	1.269
U-NII-1A Head Simultaneous										
Left cheek	0	802.11a	48/5240	0.345	95.00%	1.053	14.43	15.00	1.140	0.414
Left tilted	0	802.11a	48/5240	0.362	95.00%	1.053	14.43	15.00	1.140	0.435
Right cheek	0	802.11a	48/5240	0.369	95.00%	1.053	14.43	15.00	1.140	0.443
Right tilted	0	802.11a	48/5240	0.385	95.00%	1.053	14.43	15.00	1.140	0.462
U-NII-2A Head Simultaneous										
Left cheek	0	802.11a	52/5260	0.338	95.00%	1.053	14.49	15.00	1.125	0.400
Left tilted	0	802.11a	52/5260	0.345	95.00%	1.053	14.49	15.00	1.125	0.409
Right cheek	0	802.11a	52/5260	0.323	95.00%	1.053	14.49	15.00	1.125	0.382
Right tilted	0	802.11a	52/5260	0.338	95.00%	1.053	14.49	15.00	1.125	0.400
U-NII-2C Head Simultaneous										
Left cheek	0	802.11ac 80M	122/5610	0.282	95.00%	1.053	10.58	11.00	1.102	0.327
Left tilted	0	802.11ac 80M	122/5610	0.286	95.00%	1.053	10.58	11.00	1.102	0.332
Right cheek	0	802.11ac 80M	122/5610	0.292	95.00%	1.053	10.58	11.00	1.102	0.339
Right tilted	0	802.11ac 80M	122/5610	0.321	95.00%	1.053	10.58	11.00	1.102	0.372
U-NII-3 Head Simultaneous										
Left cheek	0	802.11ac 80M	155/5775	0.286	95.00%	1.053	10.47	11.00	1.130	0.340
Left tilted	0	802.11ac 80M	155/5775	0.295	95.00%	1.053	10.47	11.00	1.130	0.351
Right cheek	0	802.11ac 80M	155/5775	0.372	95.00%	1.053	10.47	11.00	1.130	0.443
Right tilted	0	802.11ac 80M	155/5775	0.421	95.00%	1.053	10.47	11.00	1.130	0.501
U-NII-1 Body										
Front side	5	802.11ac 80M	42/5210	0.151	95.00%	1.053	13.79	14.50	1.178	0.187
Back side	5	802.11ac 80M	42/5210	0.988	95.00%	1.053	13.79	14.50	1.178	1.225
Right side	5	802.11ac 80M	42/5210	0.135	95.00%	1.053	13.79	14.50	1.178	0.167

Top side	5	802.11ac 80M	42/5210	0.661	95.00%	1.053	13.79	14.50	1.178	0.820
U-NII-2A Body										
Front side	5	802.11ac 80M	58/5290	0.155	95.00%	1.053	13.62	14.50	1.225	0.200
Back side	5	802.11ac 80M	58/5290	0.939	95.00%	1.053	13.62	14.50	1.225	1.211
Right side	5	802.11ac 80M	58/5290	0.135	95.00%	1.053	13.62	14.50	1.225	0.174
Top side	5	802.11ac 80M	58/5290	0.642	95.00%	1.053	13.62	14.50	1.225	0.828
U-NII-2C Body										
Front side	5	802.11ac 80M	122/5610	0.309	95.00%	1.053	14.08	14.50	1.102	0.358
Back side	5	802.11ac 80M	122/5610	0.783	95.00%	1.053	14.08	14.50	1.102	0.908
Right side	5	802.11ac 80M	122/5610	0.179	95.00%	1.053	14.08	14.50	1.102	0.208
Top side	5	802.11ac 80M	122/5610	0.978	95.00%	1.053	14.08	14.50	1.102	1.134
Top side	5	802.11ac 80M	106/5530	0.943	95.00%	1.053	14.01	14.50	1.119	1.112
Top side	5	802.11ac 80M	138/5690	0.898	95.00%	1.053	14.03	14.50	1.114	1.054
Back side	5	802.11ac 80M	106/5530	0.716	95.00%	1.053	14.01	14.50	1.119	0.844
Back side	5	802.11ac 80M	138/5690	0.705	95.00%	1.053	14.03	14.50	1.114	0.827
U-NII-3 Body										
Front side	5	802.11ac 80M	155/5775	0.404	95.00%	1.053	14.33	15.00	1.167	0.496
Back side	5	802.11ac 80M	155/5775	0.990	95.00%	1.053	14.33	15.00	1.167	1.216
Back side Repeat	5	802.11ac 80M	155/5775	0.985	95.00%	1.053	14.33	15.00	1.167	1.210
Right side	5	802.11ac 80M	155/5775	0.246	95.00%	1.053	14.33	15.00	1.167	0.302
Top side	5	802.11ac 80M	155/5775	0.850	95.00%	1.053	14.33	15.00	1.167	1.044
U-NII-1 Body Simultaneous										
Front side	5	802.11ac 80M	42/5210	0.056	95.00%	1.053	9.89	10.50	1.151	0.068
Back side	5	802.11ac 80M	42/5210	0.372	95.00%	1.053	9.89	10.50	1.151	0.451
Right side	5	802.11ac 80M	42/5210	0.042	95.00%	1.053	9.89	10.50	1.151	0.051
Top side	5	802.11ac 80M	42/5210	0.249	95.00%	1.053	9.89	10.50	1.151	0.302
U-NII-2A Body Simultaneous										
Front side	5	802.11ac 80M	58/5290	0.051	95.00%	1.053	9.78	10.50	1.180	0.063
Back side	5	802.11ac 80M	58/5290	0.363	95.00%	1.053	9.78	10.50	1.180	0.451
Right side	5	802.11ac 80M	58/5290	0.053	95.00%	1.053	9.78	10.50	1.180	0.066
Top side	5	802.11ac 80M	58/5290	0.232	95.00%	1.053	9.78	10.50	1.180	0.288
U-NII-2C Body Simultaneous										
Front side	5	802.11ac 80M	122/5610	0.119	95.00%	1.053	10.19	10.50	1.074	0.135
Back side	5	802.11ac 80M	122/5610	0.314	95.00%	1.053	10.19	10.50	1.074	0.355
Right side	5	802.11ac 80M	122/5610	0.069	95.00%	1.053	10.19	10.50	1.074	0.078
Top side	5	802.11ac 80M	122/5610	0.375	95.00%	1.053	10.19	10.50	1.074	0.424
U-NII-3 Body Simultaneous										
Front side	5	802.11ac 80M	155/5775	0.161	95.00%	1.053	10.47	11.00	1.130	0.192
Back side	5	802.11ac 80M	155/5775	0.371	95.00%	1.053	10.47	11.00	1.130	0.441
Right side	5	802.11ac 80M	155/5775	0.096	95.00%	1.053	10.47	11.00	1.130	0.114
Top side	5	802.11ac 80M	155/5775	0.322	95.00%	1.053	10.47	11.00	1.130	0.383

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	155/5775	1.070	1.040	1.029	N/A	N/A
Back side	155/5775	0.990	0.985	1.005	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						