



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 13_ANT 1	10M	QPSK	25	0	Left Tilted	0mm	DSI5/10/15	23230	782	22.67	23.80	1.297	0.13	0.063	0.082
	LTE Band 26_ANT 0	15M	QPSK	1	0	Right Cheek	0mm	DSI5	26865	831.5	22.96	24.00	1.271	0.05	0.262	0.333
	LTE Band 26_ANT 0	15M	QPSK	1	0	Right Tilted	0mm	DSI5	26865	831.5	22.96	24.00	1.271	-0.09	0.050	0.064
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Cheek	0mm	DSI5	26865	831.5	22.96	24.00	1.271	0.17	0.452	0.574
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Tilted	0mm	DSI5	26865	831.5	22.96	24.00	1.271	0.15	0.043	0.055
09	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Cheek	0mm	DSI5	26765	821.5	22.91	24.00	1.285	0.06	0.781	1.004
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Cheek	0mm	DSI5	26965	841.5	22.84	24.00	1.306	0.09	0.768	1.003
	LTE Band 26_ANT 0	15M	QPSK	36	0	Right Cheek	0mm	DSI5	26865	831.5	21.77	23.00	1.327	-0.04	0.200	0.265
	LTE Band 26_ANT 0	15M	QPSK	36	0	Right Tilted	0mm	DSI5	26865	831.5	21.77	23.00	1.327	-0.13	0.039	0.051
	LTE Band 26_ANT 0	15M	QPSK	36	0	Left Cheek	0mm	DSI5	26865	831.5	21.77	23.00	1.327	0.05	0.505	0.670
	LTE Band 26_ANT 0	15M	QPSK	36	0	Left Tilted	0mm	DSI5	26865	831.5	21.77	23.00	1.327	0.18	0.062	0.082
	LTE Band 26_ANT 0	15M	QPSK	75	0	Left Cheek	0mm	DSI5	26865	831.5	21.76	23.00	1.330	0.08	0.493	0.656
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Cheek	0mm	DSI10/15	26865	831.5	18.78	20.00	1.324	-0.08	0.306	0.405
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Cheek	0mm	DSI10/15	26765	821.5	18.76	20.00	1.330	0.06	0.316	0.420
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Cheek	0mm	DSI10/15	26965	841.5	18.76	20.00	1.330	-0.11	0.322	0.428
	LTE Band 26_ANT 0	15M	QPSK	36	0	Left Cheek	0mm	DSI10/15	26865	831.5	18.76	20.00	1.330	0.02	0.303	0.403
	LTE Band 26_ANT 1	15M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	26865	831.5	23.85	24.80	1.245	0.11	0.141	0.175
	LTE Band 26_ANT 1	15M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	26865	831.5	23.85	24.80	1.245	0.17	0.080	0.100
	LTE Band 26_ANT 1	15M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	26865	831.5	23.85	24.80	1.245	0.11	0.140	0.174
	LTE Band 26_ANT 1	15M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	26865	831.5	23.85	24.80	1.245	0.02	0.068	0.085
	LTE Band 26_ANT 1	15M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	26765	821.5	23.65	24.80	1.303	0.17	0.128	0.167
	LTE Band 26_ANT 1	15M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	26965	841.5	23.62	24.80	1.312	0.07	0.143	0.188
	LTE Band 26_ANT 1	15M	QPSK	36	0	Right Cheek	0mm	DSI5/10/15	26865	831.5	22.74	23.80	1.276	0.12	0.116	0.148
	LTE Band 26_ANT 1	15M	QPSK	36	0	Right Tilted	0mm	DSI5/10/15	26865	831.5	22.74	23.80	1.276	0.02	0.065	0.083
	LTE Band 26_ANT 1	15M	QPSK	36	0	Left Cheek	0mm	DSI5/10/15	26865	831.5	22.74	23.80	1.276	0.18	0.116	0.148
	LTE Band 26_ANT 1	15M	QPSK	36	0	Left Tilted	0mm	DSI5/10/15	26865	831.5	22.74	23.80	1.276	0.02	0.054	0.069
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	132322	1745	20.19	20.80	1.151	-0.11	0.644	0.741
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Tilted	0mm	DSI5	132322	1745	20.19	20.80	1.151	-0.06	0.343	0.395
	LTE Band 66_ANT 2	20M	QPSK	1	0	Left Cheek	0mm	DSI5	132322	1745	20.19	20.80	1.151	-0.08	0.273	0.314
	LTE Band 66_ANT 2	20M	QPSK	1	0	Left Tilted	0mm	DSI5	132322	1745	20.19	20.80	1.151	-0.04	0.172	0.198
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	132072	1720	20.06	20.80	1.186	0.02	0.519	0.615
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	132572	1770	19.95	20.80	1.216	0.07	0.897	1.091
	LTE Band 66_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	132322	1745	20.16	20.80	1.159	-0.04	0.641	0.743
	LTE Band 66_ANT 2	20M	QPSK	50	0	Right Tilted	0mm	DSI5	132322	1745	20.16	20.80	1.159	-0.09	0.371	0.430
	LTE Band 66_ANT 2	20M	QPSK	50	0	Left Cheek	0mm	DSI5	132322	1745	20.16	20.80	1.159	0.19	0.277	0.321
	LTE Band 66_ANT 2	20M	QPSK	50	0	Left Tilted	0mm	DSI5	132322	1745	20.16	20.80	1.159	0.19	0.176	0.204
	LTE Band 66_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI5	132322	1745	20.17	20.80	1.156	0.06	0.661	0.764
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	132322	1745	19.26	19.80	1.132	-0.13	0.519	0.588
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	132072	1720	19.15	19.80	1.161	0.17	0.440	0.511
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	132572	1770	19.21	19.80	1.146	0.11	0.596	0.683
	LTE Band 66_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	132322	1745	19.17	19.80	1.156	0.01	0.534	0.617
	LTE Band 66_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	132322	1745	20.32	21.30	1.253	0.1	0.209	0.262
	LTE Band 66_ANT 3	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	132322	1745	20.32	21.30	1.253	0.19	0.105	0.132
	LTE Band 66_ANT 3	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	132322	1745	20.32	21.30	1.253	-0.06	0.133	0.167
	LTE Band 66_ANT 3	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	132322	1745	20.32	21.30	1.253	-0.15	0.095	0.119
	LTE Band 66_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	132072	1720	20.12	21.30	1.312	0.1	0.182	0.239
	LTE Band 66_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	132572	1770	20.21	21.30	1.285	0.1	0.257	0.330
	LTE Band 66_ANT 3	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	132322	1745	20.31	21.30	1.256	-0.15	0.170	0.214
	LTE Band 66_ANT 3	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	132322	1745	20.31	21.30	1.256	0.18	0.083	0.104
	LTE Band 66_ANT 3	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	132322	1745	20.31	21.30	1.256	-0.05	0.091	0.114
	LTE Band 66_ANT 3	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	132322	1745	20.31	21.30	1.256	-0.11	0.083	0.105
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	132322	1745	16.15	16.80	1.161	0.03	0.860	0.999
10	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	132322	1745	16.15	16.80	1.161	0.01	0.995	1.156
	LTE Band 66_ANT 5	20M	QPSK	1	0	Left Cheek	0mm	DSI5	132322	1745	16.15	16.80	1.161	0.05	0.624	0.725
	LTE Band 66_ANT 5	20M	QPSK	1	0	Left Tilted	0mm	DSI5	132322	1745	16.15	16.80	1.161	0.12	0.745	0.865
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	132072	1720	16.13	16.80	1.167	0.09	0.833	0.972



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	132572	1770	16.10	16.80	1.175	0.04	0.734	0.862
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	132072	1720	16.13	16.80	1.167	-0.11	0.878	1.024
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	132572	1770	16.10	16.80	1.175	-0.05	0.763	0.896
	LTE Band 66_ANT 5	20M	QPSK	1	0	Left Tilted	0mm	DSI5	132072	1720	16.13	16.80	1.167	0.02	0.611	0.713
	LTE Band 66_ANT 5	20M	QPSK	1	0	Left Tilted	0mm	DSI5	132572	1770	16.10	16.80	1.175	0.03	0.578	0.679
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	132322	1745	16.11	16.80	1.172	-0.03	0.783	0.918
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	132322	1745	16.11	16.80	1.172	0.01	0.849	0.995
	LTE Band 66_ANT 5	20M	QPSK	50	0	Left Cheek	0mm	DSI5	132322	1745	16.11	16.80	1.172	0.08	0.521	0.611
	LTE Band 66_ANT 5	20M	QPSK	50	0	Left Tilted	0mm	DSI5	132322	1745	16.11	16.80	1.172	-0.09	0.675	0.791
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	132072	1720	16.10	16.80	1.175	0.08	0.703	0.826
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	132572	1770	16.06	16.80	1.186	0.03	0.634	0.752
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	132072	1720	16.10	16.80	1.175	0.02	0.928	1.090
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	132572	1770	16.06	16.80	1.186	-0.11	0.823	0.976
	LTE Band 66_ANT 5	20M	QPSK	100	0	Right Cheek	0mm	DSI5	132322	1745	16.08	16.80	1.180	-0.1	0.937	1.106
	LTE Band 66_ANT 5	20M	QPSK	100	0	Right Tilted	0mm	DSI5	132322	1745	16.08	16.80	1.180	0.18	0.924	1.091
	LTE Band 66_ANT 5	20M	QPSK	100	0	Left Tilted	0mm	DSI5	132322	1745	16.08	16.80	1.180	0.01	0.618	0.729
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI10/15	132322	1745	15.10	15.80	1.175	-0.04	0.645	0.758
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI10/15	132072	1720	15.05	15.80	1.189	-0.12	0.670	0.796
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI10/15	132572	1770	15.05	15.80	1.189	-0.05	0.634	0.754
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI10/15	132322	1745	15.04	15.80	1.191	0.16	0.634	0.755
	LTE Band 66_ANT 1	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	132322	1745	20.87	21.80	1.239	0.08	0.029	0.036
	LTE Band 66_ANT 1	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	132322	1745	20.87	21.80	1.239	-0.05	0.020	0.025
	LTE Band 66_ANT 1	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	132322	1745	20.87	21.80	1.239	-0.11	0.027	0.033
	LTE Band 66_ANT 1	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	132322	1745	20.87	21.80	1.239	-0.18	0.015	0.019
	LTE Band 66_ANT 1	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	132072	1720	20.85	21.80	1.245	0.1	0.018	0.022
	LTE Band 66_ANT 1	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	132572	1770	20.84	21.80	1.247	0.1	0.026	0.032
	LTE Band 66_ANT 1	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	132322	1745	20.85	21.80	1.245	-0.19	0.025	0.031
	LTE Band 66_ANT 1	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	132322	1745	20.85	21.80	1.245	0.14	0.018	0.022
	LTE Band 66_ANT 1	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	132322	1745	20.85	21.80	1.245	-0.15	0.022	0.027
	LTE Band 66_ANT 1	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	132322	1745	20.85	21.80	1.245	0.12	0.012	0.015
	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	26340	1880	18.97	19.80	1.211	0.12	0.581	0.703
	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Tilted	0mm	DSI5	26340	1880	18.97	19.80	1.211	0.02	0.315	0.381
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Cheek	0mm	DSI5	26340	1880	18.97	19.80	1.211	-0.06	0.262	0.317
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Tilted	0mm	DSI5	26340	1880	18.97	19.80	1.211	-0.05	0.149	0.180
	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	26140	1860	18.85	19.80	1.245	0.17	0.577	0.718
11	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	26590	1905	18.82	19.80	1.253	0.15	0.913	1.144
	LTE Band 25_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	26340	1880	18.76	19.80	1.271	-0.08	0.587	0.746
	LTE Band 25_ANT 2	20M	QPSK	50	0	Right Tilted	0mm	DSI5	26340	1880	18.76	19.80	1.271	-0.14	0.317	0.403
	LTE Band 25_ANT 2	20M	QPSK	50	0	Left Cheek	0mm	DSI5	26340	1880	18.76	19.80	1.271	0.1	0.269	0.342
	LTE Band 25_ANT 2	20M	QPSK	50	0	Left Tilted	0mm	DSI5	26340	1880	18.76	19.80	1.271	0.04	0.149	0.189
	LTE Band 25_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	26140	1860	18.66	19.80	1.300	0.11	0.570	0.741
	LTE Band 25_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	26590	1905	18.67	19.80	1.297	0.05	0.876	1.136
	LTE Band 25_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI5	26340	1880	18.80	19.80	1.259	0.06	0.574	0.723
	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	26340	1880	17.97	18.80	1.211	-0.06	0.506	0.613
	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	26140	1860	17.82	18.80	1.253	0	0.487	0.610
	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	26590	1905	17.96	18.80	1.213	-0.08	0.517	0.627
	LTE Band 25_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	26340	1880	17.96	18.80	1.213	-0.05	0.514	0.624
	LTE Band 25_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	26340	1880	19.98	21.30	1.355	0.1	0.143	0.194
	LTE Band 25_ANT 3	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	26340	1880	19.98	21.30	1.355	-0.11	0.059	0.080
	LTE Band 25_ANT 3	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	26340	1880	19.98	21.30	1.355	-0.15	0.133	0.180
	LTE Band 25_ANT 3	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	26340	1880	19.98	21.30	1.355	0.12	0.064	0.087
	LTE Band 25_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	26140	1860	19.78	21.30	1.418	0.04	0.139	0.197
	LTE Band 25_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	26590	1905	19.86	21.30	1.393	0.14	0.226	0.315
	LTE Band 25_ANT 3	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	26340	1880	19.85	21.30	1.396	0.07	0.117	0.163
	LTE Band 25_ANT 3	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	26340	1880	19.85	21.30	1.396	0.09	0.050	0.069
	LTE Band 25_ANT 3	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	26340	1880	19.85	21.30	1.396	-0.13	0.107	0.149



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 25_ANT 3	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	26340	1880	19.85	21.30	1.396	-0.14	0.053	0.074
12	LTE Band 30_ANT 2	10M	QPSK	1	0	Right Cheek	0mm	DSI5	27710	2310	21.20	22.00	1.202	0.17	0.920	1.106
	LTE Band 30_ANT 2	10M	QPSK	1	0	Right Tilted	0mm	DSI5	27710	2310	21.20	22.00	1.202	0.03	0.280	0.337
	LTE Band 30_ANT 2	10M	QPSK	1	0	Left Cheek	0mm	DSI5	27710	2310	21.20	22.00	1.202	-0.08	0.190	0.228
	LTE Band 30_ANT 2	10M	QPSK	1	0	Left Tilted	0mm	DSI5	27710	2310	21.20	22.00	1.202	0.15	0.167	0.201
	LTE Band 30_ANT 2	10M	QPSK	25	0	Right Cheek	0mm	DSI5	27710	2310	21.08	22.00	1.236	-0.16	0.890	1.100
	LTE Band 30_ANT 2	10M	QPSK	25	0	Right Tilted	0mm	DSI5	27710	2310	21.08	22.00	1.236	-0.11	0.279	0.345
	LTE Band 30_ANT 2	10M	QPSK	25	0	Left Cheek	0mm	DSI5	27710	2310	21.08	22.00	1.236	0.13	0.189	0.234
	LTE Band 30_ANT 2	10M	QPSK	25	0	Left Tilted	0mm	DSI5	27710	2310	21.08	22.00	1.236	-0.02	0.163	0.201
	LTE Band 30_ANT 2	10M	QPSK	50	0	Right Cheek	0mm	DSI5	27710	2310	21.01	22.00	1.256	0.03	0.869	1.091
	LTE Band 30_ANT 2	10M	QPSK	1	0	Right Cheek	0mm	DSI10/15	27710	2310	20.25	21.00	1.189	-0.1	0.575	0.683
	LTE Band 30_ANT 2	10M	QPSK	25	0	Right Cheek	0mm	DSI10/15	27710	2310	20.18	21.00	1.208	0.02	0.568	0.686
	LTE Band 30_ANT 3	10M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	27710	2310	20.90	22.30	1.380	-0.14	0.198	0.273
	LTE Band 30_ANT 3	10M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	27710	2310	20.90	22.30	1.380	-0.09	0.054	0.074
	LTE Band 30_ANT 3	10M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	27710	2310	20.90	22.30	1.380	-0.02	0.101	0.139
	LTE Band 30_ANT 3	10M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	27710	2310	20.90	22.30	1.380	-0.19	0.052	0.071
	LTE Band 30_ANT 3	10M	QPSK	25	0	Right Cheek	0mm	DSI5/10/15	27710	2310	20.88	22.30	1.387	0.16	0.137	0.190
	LTE Band 30_ANT 3	10M	QPSK	25	0	Right Tilted	0mm	DSI5/10/15	27710	2310	20.88	22.30	1.387	0.05	0.063	0.088
	LTE Band 30_ANT 3	10M	QPSK	25	0	Left Cheek	0mm	DSI5/10/15	27710	2310	20.88	22.30	1.387	0.02	0.083	0.115
	LTE Band 30_ANT 3	10M	QPSK	25	0	Left Tilted	0mm	DSI5/10/15	27710	2310	20.88	22.30	1.387	0.16	0.039	0.054
13	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	21100	2535	20.10	21.00	1.230	0.09	0.909	1.118
	LTE Band 7C_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	21100+21298	2535+2554.8	20.08	21.00	1.236	0.01	0.814	1.006
	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Tilted	0mm	DSI5	21100	2535	20.10	21.00	1.230	0.18	0.369	0.454
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Cheek	0mm	DSI5	21100	2535	20.10	21.00	1.230	-0.17	0.208	0.256
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Tilted	0mm	DSI5	21100	2535	20.10	21.00	1.230	-0.08	0.152	0.187
	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	20850	2510	20.00	21.00	1.259	-0.05	0.779	0.981
	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	21350	2560	19.98	21.00	1.265	-0.06	0.750	0.949
	LTE Band 7_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	21100	2535	20.07	21.00	1.239	0.09	0.900	1.115
	LTE Band 7_ANT 2	20M	QPSK	50	0	Right Tilted	0mm	DSI5	21100	2535	20.07	21.00	1.239	-0.15	0.369	0.457
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Cheek	0mm	DSI5	21100	2535	20.07	21.00	1.239	-0.19	0.211	0.261
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Tilted	0mm	DSI5	21100	2535	20.07	21.00	1.239	-0.19	0.131	0.162
	LTE Band 7_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	20850	2510	20.00	21.00	1.259	0.12	0.815	1.026
	LTE Band 7_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	21350	2560	19.96	21.00	1.271	0.06	0.751	0.954
	LTE Band 7_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI5	21100	2535	20.00	21.00	1.259	0.01	0.863	1.086
	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	21100	2535	19.21	20.00	1.199	0.13	0.720	0.864
	LTE Band 7C_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	21100+21298	2535+2554.8	18.94	20.00	1.276	0.09	0.621	0.793
	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	20850	2510	19.16	20.00	1.213	-0.05	0.591	0.717
	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	21350	2560	19.20	20.00	1.202	-0.06	0.612	0.736
	LTE Band 7_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	21100	2535	19.12	20.00	1.225	-0.13	0.637	0.780
	LTE Band 7_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI10/15	21100	2535	19.11	20.00	1.227	0.06	0.683	0.838
	LTE Band 7_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	21100	2535	19.22	20.50	1.343	0.03	0.167	0.224
	LTE Band 7_ANT 3	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	21100	2535	19.22	20.50	1.343	-0.17	0.045	0.060
	LTE Band 7_ANT 3	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	21100	2535	19.22	20.50	1.343	-0.07	0.071	0.095
	LTE Band 7_ANT 3	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	21100	2535	19.22	20.50	1.343	0.19	0.035	0.046
	LTE Band 7_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	20850	2510	19.19	20.50	1.352	-0.12	0.128	0.173
	LTE Band 7_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	21350	2560	19.10	20.50	1.380	0.01	0.184	0.254
	LTE Band 7C_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	21350+21152	2560+2540.2	18.94	20.50	1.432	0.04	0.057	0.082
	LTE Band 7_ANT 3	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	21100	2535	19.21	20.50	1.346	0.12	0.106	0.143
	LTE Band 7_ANT 3	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	21100	2535	19.21	20.50	1.346	-0.03	0.034	0.045
	LTE Band 7_ANT 3	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	21100	2535	19.21	20.50	1.346	-0.04	0.022	0.030
	LTE Band 7_ANT 3	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	21100	2535	19.21	20.50	1.346	0.02	0.007	0.009
	LTE Band 7_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	21100	2535	14.30	15.80	1.413	-0.18	0.588	0.831
	LTE Band 7_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	21100	2535	14.30	15.80	1.413	0.13	0.644	0.910
	LTE Band 7_ANT 5	20M	QPSK	1	0	Left Cheek	0mm	DSI5	21100	2535	14.30	15.80	1.413	0.02	0.387	0.547
	LTE Band 7_ANT 5	20M	QPSK	1	0	Left Tilted	0mm	DSI5	21100	2535	14.30	15.80	1.413	0.1	0.478	0.675
	LTE Band 7_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	20850	2510	14.28	15.80	1.419	0.05	0.442	0.627



FCC SAR TEST REPORT

Report No. : FA1O1920

LTE Band 7_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	21350	2560	14.26	15.80	1.426	0.04	0.486	0.693
LTE Band 7_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	20850	2510	14.28	15.80	1.419	0.14	0.703	0.998
LTE Band 7_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	21350	2560	14.26	15.80	1.426	-0.12	0.635	0.905
LTE Band 7_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	21100	2535	14.26	15.80	1.426	0.17	0.561	0.800
LTE Band 7_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	21100	2535	14.26	15.80	1.426	-0.15	0.622	0.887
LTE Band 7_ANT 5	20M	QPSK	50	0	Left Cheek	0mm	DSI5	21100	2535	14.26	15.80	1.426	0.02	0.431	0.614
LTE Band 7_ANT 5	20M	QPSK	50	0	Left Tilted	0mm	DSI5	21100	2535	14.26	15.80	1.426	0.15	0.478	0.681
LTE Band 7_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	20850	2510	14.19	15.80	1.449	0.05	0.407	0.590
LTE Band 7_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	21350	2560	14.21	15.80	1.442	0.04	0.462	0.666
LTE Band 7_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	20850	2510	14.19	15.80	1.449	0.14	0.527	0.764
LTE Band 7_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	21350	2560	14.21	15.80	1.442	-0.12	0.566	0.816
LTE Band 7_ANT 5	20M	QPSK	100	0	Right Cheek	0mm	DSI5	21100	2535	14.25	15.80	1.429	-0.03	0.440	0.629
LTE Band 7_ANT 5	20M	QPSK	100	0	Right Tilted	0mm	DSI5	21100	2535	14.25	15.80	1.429	-0.03	0.543	0.776
LTE Band 7_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI10/15	21100	2535	13.33	14.80	1.403	0.12	0.547	0.767
LTE Band 7_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI10/15	20850	2510	13.27	14.80	1.422	-0.16	0.492	0.700
LTE Band 7_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI10/15	21350	2560	13.30	14.80	1.413	-0.15	0.593	0.838
LTE Band 7_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI10/15	21100	2535	13.30	14.80	1.413	0.17	0.471	0.665
LTE Band 7_ANT 5	20M	QPSK	100	0	Right Tilted	0mm	DSI10/15	21100	2535	13.26	14.80	1.426	0.08	0.456	0.650
LTE Band 7_ANT 1	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	21100	2535	22.85	23.80	1.245	0.15	0.165	0.205
LTE Band 7_ANT 1	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	21100	2535	22.85	23.80	1.245	0.04	0.034	0.042
LTE Band 7_ANT 1	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	21100	2535	22.85	23.80	1.245	0.01	0.106	0.132
LTE Band 7_ANT 1	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	21100	2535	22.85	23.80	1.245	-0.17	0.039	0.049
LTE Band 7_ANT 1	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	20850	2510	22.81	23.80	1.256	-0.13	0.148	0.186
LTE Band 7_ANT 1	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	21350	2560	22.80	23.80	1.259	0.12	0.216	0.272
LTE Band 7_ANT 1	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	21100	2535	22.10	22.80	1.175	-0.08	0.151	0.177
LTE Band 7_ANT 1	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	21100	2535	22.10	22.80	1.175	-0.02	0.031	0.036
LTE Band 7_ANT 1	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	21100	2535	22.10	22.80	1.175	0.18	0.099	0.116
LTE Band 7_ANT 1	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	21100	2535	22.10	22.80	1.175	0.02	0.031	0.036



FCC SAR TEST REPORT

Report No. : FA101920

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	40185	2549.5	21.07	21.80	1.183	62.9	1.006	0.04	0.507	0.603
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Tilted	0mm	DSI5	40185	2549.5	21.07	21.80	1.183	62.9	1.006	0.11	0.271	0.323
	LTE Band 41_ANT 2	20M	QPSK	1	0	Left Cheek	0mm	DSI5	40185	2549.5	21.07	21.80	1.183	62.9	1.006	0.06	0.111	0.132
	LTE Band 41_ANT 2	20M	QPSK	1	0	Left Tilted	0mm	DSI5	40185	2549.5	21.07	21.80	1.183	62.9	1.006	0.17	0.081	0.096
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	39750	2506	21.03	21.80	1.194	62.9	1.006	-0.13	0.469	0.563
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	40620	2593	21.04	21.80	1.191	62.9	1.006	0.05	0.821	0.984
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	41055	2636.5	20.92	21.80	1.225	62.9	1.006	0	0.803	0.989
	LTE Band 41C_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	41055+40857	2636.5+2616.7	20.50	21.80	1.349	62.9	1.006	0.02	0.562	0.763
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	41490	2680	20.88	21.80	1.236	62.9	1.006	0.12	0.517	0.643
	LTE Band 41_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	40185	2549.5	21.05	21.80	1.189	62.9	1.006	-0.19	0.591	0.707
	LTE Band 41_ANT 2	20M	QPSK	50	0	Right Tilted	0mm	DSI5	40185	2549.5	21.05	21.80	1.189	62.9	1.006	-0.13	0.279	0.334
	LTE Band 41_ANT 2	20M	QPSK	50	0	Left Cheek	0mm	DSI5	40185	2549.5	21.05	21.80	1.189	62.9	1.006	0.1	0.107	0.128
	LTE Band 41_ANT 2	20M	QPSK	50	0	Left Tilted	0mm	DSI5	40185	2549.5	21.05	21.80	1.189	62.9	1.006	-0.17	0.080	0.096
	LTE Band 41_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI5	40185	2549.5	21.04	21.80	1.191	62.9	1.006	0.01	0.579	0.694
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	40185	2549.5	20.09	20.80	1.178	62.9	1.006	0.12	0.414	0.490
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	39750	2506	19.78	20.80	1.265	62.9	1.006	-0.14	0.373	0.475
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	40620	2593	19.86	20.80	1.242	62.9	1.006	0.08	0.462	0.577
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	41055	2636.5	19.73	20.80	1.279	62.9	1.006	-0.17	0.675	0.869
	LTE Band 41C_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	41055+40857	2636.5+2616.7	19.45	20.80	1.365	62.9	1.006	0.05	0.461	0.633
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	41490	2680	19.70	20.80	1.288	62.9	1.006	-0.1	0.373	0.483
	LTE Band 41_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	40185	2549.5	20.04	20.80	1.191	62.9	1.006	0.11	0.417	0.500
	LTE Band 41_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI10/15	40185	2549.5	20.02	20.80	1.197	62.9	1.006	-0.03	0.453	0.545
	LTE Band 41_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	40185	2549.5	22.75	23.80	1.274	62.9	1.006	0.01	0.089	0.114
	LTE Band 41_ANT 3	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	40185	2549.5	22.75	23.80	1.274	62.9	1.006	-0.18	0.035	0.044
	LTE Band 41_ANT 3	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	40185	2549.5	22.75	23.80	1.274	62.9	1.006	0.11	0.037	0.047
	LTE Band 41_ANT 3	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	40185	2549.5	22.75	23.80	1.274	62.9	1.006	0.05	0.010	0.013
	LTE Band 41_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	39750	2506	22.46	23.80	1.361	62.9	1.006	-0.11	0.090	0.123
	LTE Band 41_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	40620	2593	22.66	23.80	1.300	62.9	1.006	-0.09	0.100	0.131
	LTE Band 41C_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	40620+40422	2593+2573.2	22.30	23.80	1.413	62.9	1.006	0.01	0.070	0.099
	LTE Band 41_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	41055	2636.5	22.72	23.80	1.282	62.9	1.006	-0.15	0.080	0.103
	LTE Band 41_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	41490	2680	22.72	23.80	1.282	62.9	1.006	0.08	0.061	0.079
	LTE Band 41_ANT 3	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	40185	2549.5	22.73	23.80	1.279	62.9	1.006	0.06	0.071	0.092
	LTE Band 41_ANT 3	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	40185	2549.5	22.73	23.80	1.279	62.9	1.006	-0.02	0.029	0.038
	LTE Band 41_ANT 3	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	40185	2549.5	22.73	23.80	1.279	62.9	1.006	-0.04	0.040	0.052
	LTE Band 41_ANT 3	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	40185	2549.5	22.73	23.80	1.279	62.9	1.006	0.01	0.031	0.040
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	40185	2549.5	22.69	23.40	1.178	42.9	1.009	-0.11	0.656	0.779
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Tilted	0mm	DSI5	40185	2549.5	22.69	23.40	1.178	42.9	1.009	-0.18	0.280	0.333
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Cheek	0mm	DSI5	40185	2549.5	22.69	23.40	1.178	42.9	1.009	-0.16	0.126	0.150
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Tilted	0mm	DSI5	40185	2549.5	22.69	23.40	1.178	42.9	1.009	0.15	0.085	0.101
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	39750	2506	22.55	23.40	1.216	42.9	1.009	0.15	0.569	0.698
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	40620	2593	22.58	23.40	1.208	42.9	1.009	-0.18	0.684	0.834
14	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	41055	2636.5	22.42	23.40	1.253	42.9	1.009	0.04	0.833	1.053
	LTE Band 41C(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	41055+40857	2636.5+2616.7	22.33	23.40	1.279	42.9	1.009	-0.03	0.595	0.768
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI5	41490	2680	22.47	23.40	1.239	42.9	1.009	0.15	0.568	0.710
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	40185	2549.5	22.66	23.40	1.186	42.9	1.009	0.05	0.627	0.750
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Tilted	0mm	DSI5	40185	2549.5	22.66	23.40	1.186	42.9	1.009	-0.02	0.246	0.294
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Cheek	0mm	DSI5	40185	2549.5	22.66	23.40	1.186	42.9	1.009	0.18	0.123	0.147
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Tilted	0mm	DSI5	40185	2549.5	22.66	23.40	1.186	42.9	1.009	0.19	0.083	0.099
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	39750	2506	22.62	23.40	1.197	42.9	1.009	0.04	0.598	0.722
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	40620	2593	22.57	23.40	1.211	42.9	1.009	-0.15	0.716	0.875
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	41055	2636.5	22.50	23.40	1.230	42.9	1.009	-0.11	0.726	0.901
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI5	41490	2680	22.44	23.40	1.247	42.9	1.009	-0.02	0.563	0.709



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 41(HPUE)_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI5	40185	2549.5	22.62	23.40	1.197	42.9	1.009	0.02	0.586	0.708
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	40185	2549.5	21.75	22.40	1.161	42.9	1.009	-0.18	0.590	0.691
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	39750	2506	21.58	22.40	1.208	42.9	1.009	0.03	0.539	0.657
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	40620	2593	21.55	22.40	1.216	42.9	1.009	0.08	0.624	0.766
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	41055	2636.5	21.56	22.40	1.213	42.9	1.009	0.09	0.669	0.819
	LTE Band 41C(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	41055+40857	2636.5+2616.7	21.38	22.40	1.265	42.9	1.009	0.11	0.462	0.590
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	41490	2680	21.48	22.40	1.236	42.9	1.009	0.12	0.516	0.643
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	40185	2549.5	21.72	22.40	1.169	42.9	1.009	-0.19	0.576	0.680
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	39750	2506	21.57	22.40	1.211	42.9	1.009	0.03	0.519	0.634
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	40620	2593	21.51	22.40	1.227	42.9	1.009	-0.02	0.623	0.772
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	41055	2636.5	21.55	22.40	1.216	42.9	1.009	-0.12	0.607	0.745
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	41490	2680	21.46	22.40	1.242	42.9	1.009	-0.01	0.509	0.638
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	100	0	Right Cheek	0mm	DSI10/15	40185	2549.5	21.70	22.40	1.175	42.9	1.009	0.11	0.586	0.695
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	40185	2549.5	24.58	25.40	1.208	42.9	1.009	-0.18	0.105	0.128
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	40185	2549.5	24.58	25.40	1.208	42.9	1.009	0.17	0.034	0.041
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	40185	2549.5	24.58	25.40	1.208	42.9	1.009	-0.1	0.044	0.053
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	40185	2549.5	24.58	25.40	1.208	42.9	1.009	0.01	0.012	0.015
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	39750	2506	24.26	25.40	1.300	42.9	1.009	-0.08	0.084	0.110
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	40620	2593	24.57	25.40	1.211	42.9	1.009	0.12	0.107	0.131
	LTE Band 41C(HPUE)_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	40620+40422	2593+2573.2	24.10	25.40	1.349	42.9	1.009	-0.08	0.067	0.091
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	41055	2636.5	24.51	25.40	1.227	42.9	1.009	0.17	0.068	0.084
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	41490	2680	24.56	25.40	1.213	42.9	1.009	0.16	0.064	0.078
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	40185	2549.5	24.56	25.40	1.213	42.9	1.009	0.07	0.066	0.080
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	40185	2549.5	24.56	25.40	1.213	42.9	1.009	0.06	0.026	0.032
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	40185	2549.5	24.56	25.40	1.213	42.9	1.009	-0.1	0.039	0.047
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	40185	2549.5	24.56	25.40	1.213	42.9	1.009	-0.09	0.010	0.012
15	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	55830	3609	16.99	17.50	1.125	62.9	1.006	0.1	1.020	1.154
	LTE Band 48C_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	55830+55632	3609+3589.2	16.73	17.50	1.194	62.9	1.006	0.06	0.662	0.795
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	55830	3609	16.99	17.50	1.125	62.9	1.006	0.16	0.989	1.119
	LTE Band 48_ANT 5	20M	QPSK	1	0	Left Cheek	0mm	DSI5	55830	3609	16.99	17.50	1.125	62.9	1.006	0.18	0.506	0.572
	LTE Band 48_ANT 5	20M	QPSK	1	0	Left Tilted	0mm	DSI5	55830	3609	16.99	17.50	1.125	62.9	1.006	0.01	0.433	0.490
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	55340	3560	16.88	17.50	1.153	62.9	1.006	0.03	0.945	1.097
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	56150	3641	16.95	17.50	1.135	62.9	1.006	0.01	0.893	1.020
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI5	56640	3690	16.96	17.50	1.132	62.9	1.006	0.11	0.895	1.020
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	55340	3560	16.88	17.50	1.153	62.9	1.006	0.06	0.922	1.070
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	56150	3641	16.95	17.50	1.135	62.9	1.006	-0.16	0.885	1.011
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Tilted	0mm	DSI5	56640	3690	16.96	17.50	1.132	62.9	1.006	0.01	0.850	0.968
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	55830	3609	16.95	17.50	1.135	62.9	1.006	-0.15	0.963	1.100
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	55830	3609	16.95	17.50	1.135	62.9	1.006	0.14	0.916	1.046
	LTE Band 48_ANT 5	20M	QPSK	50	0	Left Cheek	0mm	DSI5	55830	3609	16.95	17.50	1.135	62.9	1.006	0.06	0.488	0.557
	LTE Band 48_ANT 5	20M	QPSK	50	0	Left Tilted	0mm	DSI5	55830	3609	16.95	17.50	1.135	62.9	1.006	-0.1	0.421	0.481
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	55340	3560	16.93	17.50	1.140	62.9	1.006	0.01	0.933	1.070
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	56150	3641	16.93	17.50	1.140	62.9	1.006	0.02	0.889	1.020
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI5	56640	3690	16.91	17.50	1.146	62.9	1.006	-0.01	0.871	1.004
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	55340	3560	16.93	17.50	1.140	62.9	1.006	0.04	0.919	1.054
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	56150	3641	16.93	17.50	1.140	62.9	1.006	0.17	0.882	1.012
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Tilted	0mm	DSI5	56640	3690	16.91	17.50	1.146	62.9	1.006	-0.13	0.837	0.965
	LTE Band 48_ANT 5	20M	QPSK	100	0	Right Cheek	0mm	DSI5	55830	3609	16.94	17.50	1.138	62.9	1.006	-0.09	0.950	1.087
	LTE Band 48_ANT 5	20M	QPSK	100	0	Right Tilted	0mm	DSI5	55830	3609	16.94	17.50	1.138	62.9	1.006	-0.03	0.886	1.014
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	55830	3609	16.39	16.80	1.099	62.9	1.006	-0.17	0.841	0.930
	LTE Band 48C_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	55830+55632	3609+3589.2	15.85	16.80	1.245	62.9	1.006	0.07	0.533	0.667
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	55340	3560	16.29	16.80	1.125	62.9	1.006	-0.02	0.792	0.896
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	56150	3641	16.37	16.80	1.104	62.9	1.006	-0.05	0.750	0.833
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Cheek	0mm	DSI10/15	56640	3690	16.30	16.80	1.122	62.9	1.006	0.03	0.751	0.848
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	55830	3609	16.38	16.80	1.102	62.9	1.006	0.06	0.762	0.844
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	55340	3560	16.27	16.80	1.130	62.9	1.006	0.03	0.721	0.819



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	56150	3641	16.37	16.80	1.104	62.9	1.006	0.12	0.682	0.757
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Cheek	0mm	DSI10/15	56640	3690	16.21	16.80	1.146	62.9	1.006	0.07	0.686	0.791
	LTE Band 48_ANT 5	20M	QPSK	100	0	Right Cheek	0mm	DSI10/15	55830	3609	16.35	16.80	1.109	62.9	1.006	0.01	0.823	0.918
	LTE Band 48_ANT 10	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	55830	3609	16.49	17.30	1.205	62.9	1.006	0.1	0.058	0.070
	LTE Band 48C_ANT 10	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	55830+55632	3609+3589.2	16.03	17.30	1.340	62.9	1.006	0.13	0.052	0.070
	LTE Band 48_ANT 10	20M	QPSK	1	0	Right Tilted	0mm	DSI5/10/15	55830	3609	16.49	17.30	1.205	62.9	1.006	0.07	0.028	0.034
	LTE Band 48_ANT 10	20M	QPSK	1	0	Left Cheek	0mm	DSI5/10/15	55830	3609	16.49	17.30	1.205	62.9	1.006	-0.14	0.048	0.058
	LTE Band 48_ANT 10	20M	QPSK	1	0	Left Tilted	0mm	DSI5/10/15	55830	3609	16.49	17.30	1.205	62.9	1.006	0.05	0.013	0.016
	LTE Band 48_ANT 10	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	55340	3560	16.46	17.30	1.213	62.9	1.006	-0.05	0.030	0.037
	LTE Band 48_ANT 10	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	56150	3641	16.39	17.30	1.233	62.9	1.006	-0.1	0.042	0.052
	LTE Band 48_ANT 10	20M	QPSK	1	0	Right Cheek	0mm	DSI5/10/15	56640	3690	16.42	17.30	1.225	62.9	1.006	0.18	0.030	0.037
	LTE Band 48_ANT 10	20M	QPSK	50	0	Right Cheek	0mm	DSI5/10/15	55830	3609	16.41	17.30	1.227	62.9	1.006	0.18	0.053	0.065
	LTE Band 48_ANT 10	20M	QPSK	50	0	Right Tilted	0mm	DSI5/10/15	55830	3609	16.41	17.30	1.227	62.9	1.006	0.01	0.027	0.033
	LTE Band 48_ANT 10	20M	QPSK	50	0	Left Cheek	0mm	DSI5/10/15	55830	3609	16.41	17.30	1.227	62.9	1.006	0	0.042	0.052
	LTE Band 48_ANT 10	20M	QPSK	50	0	Left Tilted	0mm	DSI5/10/15	55830	3609	16.41	17.30	1.227	62.9	1.006	-0.11	0.010	0.012



<5GNR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	136100	680.5	23.35	24.40	1.274	0.11	0.299	0.381
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	136100	680.5	23.35	24.40	1.274	-0.16	0.073	0.093
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	136100	680.5	23.35	24.40	1.274	-0.06	0.670	0.853
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	136100	680.5	23.35	24.40	1.274	0.16	0.091	0.115
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5/10/15	136100	680.5	23.22	24.40	1.312	0.04	0.300	0.394
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	DSI5/10/15	136100	680.5	23.22	24.40	1.312	0.13	0.064	0.084
16	N71_Ant 0	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	DSI5/10/15	136100	680.5	23.22	24.40	1.312	0.05	0.670	0.879
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	DSI5/10/15	136100	680.5	23.22	24.40	1.312	-0.16	0.092	0.121
	N71_Ant 0	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	DSI5/10/15	136100	680.5	22.23	23.40	1.309	0.05	0.404	0.529
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	136100	680.5	24.38	25.20	1.208	-0.18	0.127	0.153
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	136100	680.5	24.38	25.20	1.208	0.03	0.072	0.087
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	136100	680.5	24.38	25.20	1.208	-0.02	0.089	0.107
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	136100	680.5	24.38	25.20	1.208	-0.16	0.052	0.063
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5/10/15	136100	680.5	24.31	25.20	1.227	0.19	0.156	0.191
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	DSI5/10/15	136100	680.5	24.31	25.20	1.227	0.15	0.069	0.085
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	DSI5/10/15	136100	680.5	24.31	25.20	1.227	-0.03	0.098	0.120
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	DSI5/10/15	136100	680.5	24.31	25.20	1.227	-0.11	0.052	0.063
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	167300	836.5	23.15	24.20	1.274	-0.02	0.268	0.341
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5	167300	836.5	23.15	24.20	1.274	0.07	0.068	0.086
17	N5_Ant 0	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	167300	836.5	23.15	24.20	1.274	-0.09	0.886	1.128
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5	167300	836.5	23.15	24.20	1.274	-0.05	0.092	0.117
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5	167300	836.5	23.00	24.20	1.318	0.19	0.267	0.352
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	DSI5	167300	836.5	23.00	24.20	1.318	0.12	0.056	0.073
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	DSI5	167300	836.5	23.00	24.20	1.318	-0.13	0.737	0.972
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	DSI5	167300	836.5	23.00	24.20	1.318	0.16	0.074	0.097
	N5_Ant 0	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	DSI5	167300	836.5	22.00	23.20	1.318	0.06	0.531	0.700
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI10/15	167300	836.5	22.35	23.20	1.216	-0.13	0.739	0.899
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	DSI10/15	167300	836.5	22.23	23.20	1.250	-0.06	0.695	0.869
	N5_Ant 0	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	DSI10/15	167300	836.5	21.77	22.70	1.239	0.08	0.410	0.508
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	167300	836.5	23.78	24.70	1.236	-0.07	0.131	0.162
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	167300	836.5	23.78	24.70	1.236	-0.09	0.078	0.097
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	167300	836.5	23.78	24.70	1.236	-0.02	0.126	0.156
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	167300	836.5	23.78	24.70	1.236	0.1	0.064	0.079
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5/10/15	167300	836.5	23.69	24.70	1.262	-0.17	0.132	0.167
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	DSI5/10/15	167300	836.5	23.69	24.70	1.262	-0.11	0.069	0.087
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	DSI5/10/15	167300	836.5	23.69	24.70	1.262	0.19	0.136	0.172
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	DSI5/10/15	167300	836.5	23.69	24.70	1.262	-0.13	0.059	0.075
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	349000	1745	20.85	21.70	1.216	-0.02	0.232	0.282
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	349000	1745	20.85	21.70	1.216	0.15	0.106	0.129
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	349000	1745	20.85	21.70	1.216	-0.02	0.139	0.169
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	349000	1745	20.85	21.70	1.216	0.01	0.100	0.121
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI5/10/15	349000	1745	20.84	21.70	1.219	-0.06	0.213	0.260
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	DSI5/10/15	349000	1745	20.84	21.70	1.219	0.1	0.124	0.151
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	DSI5/10/15	349000	1745	20.84	21.70	1.219	-0.07	0.128	0.156
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	DSI5/10/15	349000	1745	20.84	21.70	1.219	0.04	0.103	0.126
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	349000	1745	20.41	21.20	1.199	0.17	0.915	1.098
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5	349000	1745	20.41	21.20	1.199	0.15	0.279	0.335
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	349000	1745	20.41	21.20	1.199	-0.11	0.217	0.260
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5	349000	1745	20.41	21.20	1.199	-0.14	0.105	0.126
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI5	349000	1745	20.31	21.20	1.227	-0.13	0.853	1.047
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	DSI5	349000	1745	20.31	21.20	1.227	-0.07	0.342	0.420
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	DSI5	349000	1745	20.31	21.20	1.227	0.1	0.277	0.340
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	DSI5	349000	1745	20.31	21.20	1.227	-0.14	0.114	0.140



FCC SAR TEST REPORT

Report No. : FA101920

	N66_Ant 2	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	DSI5	349000	1745	20.27	21.20	1.239	0.01	0.656	0.813
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI10/15	349000	1745	19.83	20.70	1.222	0.02	0.713	0.871
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI10/15	349000	1745	19.72	20.70	1.253	-0.05	0.698	0.875
	N66_Ant 2	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	DSI10/15	349000	1745	19.71	20.70	1.256	0.11	0.558	0.701
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	349000	1745	15.62	16.70	1.282	0.14	0.723	0.927
18	N66_Ant 5	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5	349000	1745	15.62	16.70	1.282	-0.06	0.885	1.135
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	349000	1745	15.62	16.70	1.282	-0.13	0.434	0.557
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5	349000	1745	15.62	16.70	1.282	0.01	0.568	0.728
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI5	349000	1745	15.58	16.70	1.294	-0.15	0.659	0.853
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	DSI5	349000	1745	15.58	16.70	1.294	-0.19	0.692	0.896
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	DSI5	349000	1745	15.58	16.70	1.294	0.06	0.438	0.567
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	DSI5	349000	1745	15.58	16.70	1.294	0.07	0.476	0.616
	N66_Ant 5	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	DSI5	349000	1745	15.55	16.70	1.303	0.03	0.536	0.698
	N66_Ant 5	40M	QPSK	216	0	DFT-15	Right Tilted	0mm	DSI5	349000	1745	15.55	16.70	1.303	-0.16	0.578	0.753
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI10/15	349000	1745	14.65	15.70	1.274	-0.03	0.581	0.740
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	DSI10/15	349000	1745	14.64	15.70	1.276	-0.19	0.558	0.712
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	349000	1745	21.21	22.20	1.256	0.04	0.029	0.037
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	349000	1745	21.21	22.20	1.256	-0.14	0.020	0.025
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	349000	1745	21.21	22.20	1.256	-0.07	0.024	0.030
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	349000	1745	21.21	22.20	1.256	-0.04	0.022	0.027
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI5/10/15	349000	1745	21.08	22.20	1.294	-0.19	0.030	0.039
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	DSI5/10/15	349000	1745	21.08	22.20	1.294	-0.08	0.025	0.032
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	DSI5/10/15	349000	1745	21.08	22.20	1.294	-0.18	0.024	0.031
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	DSI5/10/15	349000	1745	21.08	22.20	1.294	-0.17	0.021	0.027
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	376500	1882.5	21.12	22.20	1.282	-0.17	0.123	0.158
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	376500	1882.5	21.12	22.20	1.282	-0.13	0.051	0.065
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	376500	1882.5	21.12	22.20	1.282	-0.09	0.180	0.231
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	376500	1882.5	21.12	22.20	1.282	-0.13	0.059	0.076
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI5/10/15	376500	1882.5	21.11	22.20	1.285	-0.18	0.115	0.148
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	DSI5/10/15	376500	1882.5	21.11	22.20	1.285	0.16	0.052	0.067
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	DSI5/10/15	376500	1882.5	21.11	22.20	1.285	0.18	0.117	0.150
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	DSI5/10/15	376500	1882.5	21.11	22.20	1.285	-0.04	0.064	0.082
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	376500	1882.5	18.80	19.70	1.230	0.04	0.737	0.907
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5	376500	1882.5	18.80	19.70	1.230	0.07	0.308	0.379
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	376500	1882.5	18.80	19.70	1.230	0.15	0.213	0.262
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5	376500	1882.5	18.80	19.70	1.230	-0.15	0.106	0.130
19	N25_Ant 2	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI5	376500	1882.5	18.61	19.70	1.285	0.08	0.867	1.114
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	DSI5	376500	1882.5	18.61	19.70	1.285	-0.07	0.328	0.422
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	DSI5	376500	1882.5	18.61	19.70	1.285	-0.14	0.217	0.279
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	DSI5	376500	1882.5	18.61	19.70	1.285	0.06	0.105	0.135
	N25_Ant 2	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	DSI5	376500	1882.5	18.60	19.70	1.288	0.13	0.648	0.835
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI10/15	376500	1882.5	17.76	18.70	1.242	-0.17	0.666	0.827
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	DSI10/15	376500	1882.5	17.67	18.70	1.268	0.06	0.621	0.787
	N25_Ant 2	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	DSI10/15	376500	1882.5	17.62	18.70	1.282	0.01	0.571	0.732
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	462000	2310	20.17	21.20	1.268	0.06	0.153	0.194
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	462000	2310	20.17	21.20	1.268	0.08	0.062	0.078
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	462000	2310	20.17	21.20	1.268	-0.15	0.104	0.132
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	462000	2310	20.17	21.20	1.268	0.17	0.047	0.060
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	DSI5/10/15	462000	2310	20.16	21.20	1.271	-0.05	0.109	0.138
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	DSI5/10/15	462000	2310	20.16	21.20	1.271	0.16	0.058	0.074
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	DSI5/10/15	462000	2310	20.16	21.20	1.271	-0.15	0.103	0.131
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	DSI5/10/15	462000	2310	20.16	21.20	1.271	0.17	0.042	0.054
20	N30_Ant 2	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	462000	2310	21.97	23.20	1.327	-0.06	0.896	1.189
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5	462000	2310	21.97	23.20	1.327	0.16	0.410	0.544
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	462000	2310	21.97	23.20	1.327	-0.09	0.269	0.357
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5	462000	2310	21.97	23.20	1.327	0.14	0.167	0.222



FCC SAR TEST REPORT

Report No. : FA101920

	N30_Ant 2	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	DSI5	462000	2310	21.95	23.20	1.334	-0.11	0.887	1.183
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	DSI5	462000	2310	21.95	23.20	1.334	-0.07	0.414	0.552
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	DSI5	462000	2310	21.95	23.20	1.334	0.04	0.249	0.332
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	DSI5	462000	2310	21.95	23.20	1.334	0.12	0.162	0.216
	N30_Ant 2	10M	QPSK	50	0	DFT-15	Right Cheek	0mm	DSI5	462000	2310	21.56	22.70	1.300	0.02	0.863	1.122
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI10/15	462000	2310	21.02	22.20	1.312	0.07	0.728	0.955
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	DSI10/15	462000	2310	20.91	22.20	1.346	-0.12	0.707	0.952
	N30_Ant 2	10M	QPSK	50	0	DFT-15	Right Cheek	0mm	DSI10/15	462000	2310	20.86	22.20	1.361	0.09	0.665	0.905
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	507000	2535	19.03	20.20	1.309	-0.13	0.150	0.196
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5/10/15	507000	2535	19.03	20.20	1.309	-0.19	0.121	0.158
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5/10/15	507000	2535	19.03	20.20	1.309	0.05	0.067	0.087
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5/10/15	507000	2535	19.03	20.20	1.309	0.08	0.039	0.051
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	502000	2510	19.01	20.20	1.315	0.02	0.143	0.188
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5/10/15	512000	2560	18.97	20.20	1.327	0.08	0.132	0.175
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5/10/15	507000	2535	18.96	20.20	1.330	-0.02	0.125	0.166
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	DSI5/10/15	507000	2535	18.96	20.20	1.330	0.15	0.059	0.078
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	DSI5/10/15	507000	2535	18.96	20.20	1.330	-0.13	0.078	0.104
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	DSI5/10/15	507000	2535	18.96	20.20	1.330	-0.14	0.031	0.041
21	N7_Ant 2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	507000	2535	19.07	20.20	1.297	0.19	0.850	1.103
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	DSI5	507000	2535	19.07	20.20	1.297	-0.14	0.493	0.640
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	507000	2535	19.07	20.20	1.297	0.09	0.168	0.218
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	DSI5	507000	2535	19.07	20.20	1.297	-0.06	0.099	0.129
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	502000	2510	18.85	20.20	1.365	0.05	0.807	1.101
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI5	512000	2560	18.78	20.20	1.387	0.08	0.792	1.098
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5	507000	2535	18.83	20.20	1.371	0.02	0.790	1.083
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	DSI5	507000	2535	18.83	20.20	1.371	-0.04	0.339	0.465
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	DSI5	507000	2535	18.83	20.20	1.371	-0.14	0.173	0.237
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	DSI5	507000	2535	18.83	20.20	1.371	-0.02	0.106	0.145
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5	502000	2510	18.76	20.20	1.393	0.02	0.765	1.066
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI5	512000	2560	18.69	20.20	1.416	-0.05	0.739	1.046
	N7_Ant 2	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	DSI5	507000	2535	18.74	20.20	1.400	0.04	0.760	1.064
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	DSI10/15	507000	2535	18.59	19.70	1.291	0.02	0.750	0.968
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	DSI10/15	507000	2535	18.38	19.70	1.355	0.05	0.726	0.984
	N7_Ant 2	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	DSI10/15	507000	2535	18.26	19.70	1.393	0.08	0.710	0.989
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	0.08	0.151	0.208
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	-0.06	0.059	0.081
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	0.08	0.082	0.113
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	-0.11	0.029	0.040
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	0.12	0.153	0.213
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	-0.1	0.063	0.088
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	0.12	0.085	0.118
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	-0.04	0.033	0.046
22	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	-0.13	0.819	0.991
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	0.09	0.374	0.453
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	0	0.186	0.225
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	-0.14	0.111	0.134
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	-0.02	0.516	0.668
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	0.06	0.288	0.373
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	0.09	0.146	0.189
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	0.06	0.090	0.116
	N41(PC3)_Ant 2	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI5	518598	2592.99	18.52	19.70	1.312	0.06	0.742	0.974
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI10/15	518598	2592.99	17.86	18.70	1.213	0.06	0.714	0.866
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI10/15	518598	2592.99	17.56	18.70	1.300	0.11	0.630	0.819
	N41(PC3)_Ant 2	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI10/15	518598	2592.99	17.52	18.70	1.312	0.08	0.583	0.765
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	-0.13	0.819	0.991
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	0.09	0.374	0.453



FCC SAR TEST REPORT

Report No. : FA101920

N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	0	0.186	0.225
N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5	518598	2592.99	18.87	19.70	1.211	-0.14	0.111	0.134
N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	-0.02	0.516	0.668
N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	0.06	0.288	0.373
N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	0.09	0.146	0.189
N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5	518598	2592.99	18.58	19.70	1.294	0.06	0.090	0.116
N41(PC3)_Ant 2	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI5	518598	2592.99	18.52	19.70	1.312	0.06	0.742	0.974
N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI10/15	518598	2592.99	17.86	18.70	1.213	0.06	0.714	0.866
N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI10/15	518598	2592.99	17.56	18.70	1.300	0.11	0.630	0.819
N41(PC3)_Ant 2	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI10/15	518598	2592.99	17.52	18.70	1.312	0.08	0.583	0.765
N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	0.02	0.243	0.335
N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	0.1	0.074	0.102
N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	-0.11	0.092	0.126
N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	0.13	0.100	0.138
N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	0.02	0.291	0.405
N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	0.14	0.117	0.163
N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	-0.01	0.013	0.018
N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	0.16	0.059	0.082
N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	0.08	0.151	0.208
N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	-0.06	0.059	0.081
N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	0.08	0.082	0.113
N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	15.81	17.20	1.377	-0.11	0.029	0.040
N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	0.12	0.153	0.213
N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	-0.1	0.063	0.088
N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	0.12	0.085	0.118
N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	15.76	17.20	1.393	-0.04	0.033	0.046
N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	0.06	0.550	0.636
N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	-0.15	0.570	0.659
N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	0.04	0.318	0.368
N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	0.1	0.437	0.505
N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	-0.01	0.456	0.535
N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	-0.19	0.550	0.645
N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	-0.15	0.318	0.373
N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	0.07	0.423	0.496
N41(UL MIMO)_Ant 5	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	13.47	14.20	1.183	0.12	0.550	0.651
N41(UL MIMO)_Ant 5	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	13.47	14.20	1.183	0.01	0.570	0.674
N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	0.06	0.550	0.636
N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	-0.15	0.570	0.659
N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	0.04	0.318	0.368
N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	13.57	14.20	1.156	0.1	0.437	0.505
N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	-0.01	0.456	0.535
N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	-0.19	0.550	0.645
N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	-0.15	0.318	0.373
N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	13.51	14.20	1.172	0.07	0.423	0.496
N41(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	13.47	14.20	1.183	0.12	0.550	0.651
N41(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	13.47	14.20	1.183	0.01	0.570	0.674
N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	22.13	23.20	1.279	0.05	0.337	0.431
N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	22.13	23.20	1.279	-0.14	0.054	0.069
N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	22.13	23.20	1.279	-0.11	0.130	0.166
N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	22.13	23.20	1.279	0.15	0.067	0.086
N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	518598	2592.99	21.98	23.20	1.324	-0.06	0.291	0.385
N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	518598	2592.99	21.98	23.20	1.324	0.12	0.082	0.109
N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	518598	2592.99	21.98	23.20	1.324	0.17	0.133	0.176
N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	518598	2592.99	21.98	23.20	1.324	0.02	0.112	0.148
N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5	633334	3500.01	14.41	15.20	1.199	-0.01	0.757	0.908
N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5	633334	3500.01	14.41	15.20	1.199	0.16	0.817	0.980



FCC SAR TEST REPORT

Report No. : FA101920

	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5	633334	3500.01	14.41	15.20	1.199	-0.14	0.349	0.419
	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5	633334	3500.01	14.41	15.20	1.199	-0.13	0.499	0.599
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5	633334	3500.01	14.32	15.20	1.225	0.16	0.766	0.938
24	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5	633334	3500.01	14.32	15.20	1.225	-0.12	0.854	1.046
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5	633334	3500.01	14.32	15.20	1.225	-0.16	0.344	0.421
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5	633334	3500.01	14.32	15.20	1.225	0.11	0.416	0.509
	N77(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI5	633334	3500.01	14.29	15.20	1.233	0.05	0.760	0.937
	N77(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	DSI5	633334	3500.01	14.29	15.20	1.233	-0.16	0.791	0.975
	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI10/15	633334	3500.01	13.89	14.70	1.205	-0.1	0.732	0.882
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI10/15	633334	3500.01	13.86	14.70	1.213	0.19	0.788	0.956
	N77(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	DSI10/15	633334	3500.01	13.77	14.70	1.239	0.01	0.794	0.984
	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5	656000	3840	14.19	15.20	1.262	-0.07	0.740	0.934
	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5	656000	3840	14.19	15.20	1.262	-0.17	0.737	0.930
	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5	656000	3840	14.19	15.20	1.262	0.09	0.361	0.456
	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5	656000	3840	14.19	15.20	1.262	-0.16	0.379	0.478
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5	656000	3840	14.10	15.20	1.288	-0.19	0.755	0.973
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5	656000	3840	14.10	15.20	1.288	0.15	0.726	0.935
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5	656000	3840	14.10	15.20	1.288	0.14	0.330	0.425
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5	656000	3840	14.10	15.20	1.288	-0.03	0.308	0.397
	N77(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	DSI5	656000	3840	14.02	15.20	1.312	0.06	0.713	0.936
	N77(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	DSI5	656000	3840	14.02	15.20	1.312	0.01	0.616	0.808
	N77(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI10/15	656000	3840	13.70	14.70	1.259	-0.16	0.624	0.786
	N77(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI10/15	656000	3840	13.60	14.70	1.288	-0.13	0.610	0.786
	N77(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	DSI10/15	656000	3840	13.56	14.70	1.300	0.02	0.607	0.789
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	633334	3500.01	15.72	16.70	1.253	0.05	0.081	0.102
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	633334	3500.01	15.72	16.70	1.253	0.12	0.040	0.050
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	633334	3500.01	15.72	16.70	1.253	0.02	0.030	0.038
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	633334	3500.01	15.72	16.70	1.253	0.14	0.018	0.023
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	633334	3500.01	15.70	16.70	1.259	0.09	0.106	0.133
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	633334	3500.01	15.70	16.70	1.259	0.02	0.042	0.053
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	633334	3500.01	15.70	16.70	1.259	-0.09	0.035	0.044
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	633334	3500.01	15.70	16.70	1.259	0.05	0.018	0.023
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DSI5/10/15	656000	3840	15.64	16.70	1.276	0.05	0.029	0.037
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DSI5/10/15	656000	3840	15.64	16.70	1.276	0.12	0.026	0.033
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DSI5/10/15	656000	3840	15.64	16.70	1.276	0.02	0.019	0.024
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DSI5/10/15	656000	3840	15.64	16.70	1.276	0.14	0.018	0.023
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DSI5/10/15	656000	3840	15.62	16.70	1.282	0.09	0.034	0.044
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DSI5/10/15	656000	3840	15.62	16.70	1.282	0.02	0.033	0.042
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DSI5/10/15	656000	3840	15.62	16.70	1.282	-0.09	0.018	0.023
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DSI5/10/15	656000	3840	15.62	16.70	1.282	0.05	0.016	0.021

**<5G NR SRS SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Duty Cycle %	Pmax	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DS15/10/15	633334	3500.01	15.38	14	20.2	-0.08	0.104	0.044
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DS15/10/15	633334	3500.01	15.38	14	20.2	-0.08	0.044	0.019
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DS15/10/15	633334	3500.01	15.38	14	20.2	0.03	0.148	0.063
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DS15/10/15	633334	3500.01	15.38	14	20.2	-0.18	0.071	0.030
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DS15/10/15	633334	3500.01	15.35	14	20.2	-0.07	0.092	0.039
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DS15/10/15	633334	3500.01	15.35	14	20.2	0.04	0.034	0.015
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DS15/10/15	633334	3500.01	15.35	14	20.2	-0.15	0.147	0.063
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DS15/10/15	633334	3500.01	15.35	14	20.2	0.04	0.056	0.024
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DS15/10/15	656000	3840	15.30	14	20.2	-0.08	0.386	0.167
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DS15/10/15	656000	3840	15.30	14	20.2	0.18	0.062	0.027
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DS15/10/15	656000	3840	15.30	14	20.2	0.12	0.424	0.183
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DS15/10/15	656000	3840	15.30	14	20.2	-0.16	0.127	0.055
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DS15/10/15	656000	3840	15.27	14	20.2	0.01	0.277	0.121
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DS15/10/15	656000	3840	15.27	14	20.2	-0.15	0.056	0.024
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DS15/10/15	656000	3840	15.27	14	20.2	0.17	0.286	0.125
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DS15/10/15	656000	3840	15.27	14	20.2	-0.16	0.108	0.047
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DS15/10/15	633334	3500.01	14.81	14	22.7	0.13	0.222	0.191
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DS15/10/15	633334	3500.01	14.81	14	22.7	0.03	0.185	0.159
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DS15/10/15	633334	3500.01	14.81	14	22.7	-0.17	0.348	0.300
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DS15/10/15	633334	3500.01	14.81	14	22.7	0.03	0.435	0.375
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DS15/10/15	633334	3500.01	14.74	14	22.7	0.15	0.208	0.182
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DS15/10/15	633334	3500.01	14.74	14	22.7	0.05	0.205	0.179
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DS15/10/15	633334	3500.01	14.74	14	22.7	0.01	0.417	0.365
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DS15/10/15	633334	3500.01	14.74	14	22.7	-0.18	0.454	0.397
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	DS15/10/15	656000	3840	14.51	14	22.7	0.05	0.177	0.163
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	DS15/10/15	656000	3840	14.51	14	22.7	-0.08	0.135	0.125
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	DS15/10/15	656000	3840	14.51	14	22.7	0	0.259	0.239
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	DS15/10/15	656000	3840	14.51	14	22.7	0.14	0.266	0.245
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	DS15/10/15	656000	3840	14.45	14	22.7	-0.08	0.126	0.118
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	DS15/10/15	656000	3840	14.45	14	22.7	0.13	0.132	0.124
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	DS15/10/15	656000	3840	14.45	14	22.7	0.16	0.234	0.219
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	DS15/10/15	656000	3840	14.45	14	22.7	0.04	0.297	0.278



<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 4	Standalone(Full)	39	2441	15.60	17.00	1.380	76.1	1.314	0.09	0.239	0.434
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 4	Standalone(Full)	39	2441	15.60	17.00	1.380	76.1	1.314	-0.05	0.314	0.570
25	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 4	Standalone(Full)	39	2441	15.60	17.00	1.380	76.1	1.314	-0.1	0.496	0.900
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 4	Standalone(Full)	39	2441	15.60	17.00	1.380	76.1	1.314	0.05	0.434	0.787
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 4	Standalone(Full)	0	2402	15.30	17.00	1.479	76.1	1.314	-0.1	0.373	0.725
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 4	Standalone(Full)	78	2480	15.30	17.00	1.479	76.1	1.314	0.01	0.290	0.564
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 4	Simultaneous	39	2441	9.40	10.00	1.148	76.1	1.314	0.06	0.067	0.101
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 4	Simultaneous	39	2441	9.40	10.00	1.148	76.1	1.314	0.01	0.052	0.078
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 4	Simultaneous	39	2441	9.40	10.00	1.148	76.1	1.314	-0.02	0.102	0.154
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 4	Simultaneous	39	2441	9.40	10.00	1.148	76.1	1.314	-0.11	0.101	0.152
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 4	Simultaneous	0	2402	8.80	10.00	1.318	76.1	1.314	-0.15	0.085	0.147
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 4	Simultaneous	78	2480	9.20	10.00	1.202	76.1	1.314	0.18	0.086	0.136
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 6	Standalone(Full)	39	2441	15.30	17.00	1.479	76.1	1.314	-0.02	0.277	0.538
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 6	Standalone(Full)	39	2441	15.30	17.00	1.479	76.1	1.314	0.08	0.054	0.105
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone(Full)	39	2441	15.30	17.00	1.479	76.1	1.314	-0.05	0.313	0.608
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 6	Standalone(Full)	39	2441	15.30	17.00	1.479	76.1	1.314	-0.05	0.099	0.192
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone(Full)	0	2402	15.10	17.00	1.549	76.1	1.314	0.11	0.250	0.509
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone(Full)	78	2480	15.20	17.00	1.514	76.1	1.314	0.02	0.209	0.416
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 6	Simultaneous	39	2441	10.80	12.00	1.318	76.1	1.314	0.15	0.061	0.106
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 6	Simultaneous	39	2441	10.80	12.00	1.318	76.1	1.314	-0.08	0.021	0.036
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	39	2441	10.80	12.00	1.318	76.1	1.314	-0.08	0.098	0.170
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 6	Simultaneous	39	2441	10.80	12.00	1.318	76.1	1.314	-0.12	0.033	0.057
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	0	2402	10.40	12.00	1.445	76.1	1.314	0.04	0.088	0.167
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	78	2480	10.00	12.00	1.585	76.1	1.314	-0.01	0.080	0.167

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	6	2437	17.31	19.00	1.476	100	1.000	0.05	0.362	0.534
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Standalone	6	2437	17.31	19.00	1.476	100	1.000	0.13	0.406	0.599
26	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Standalone	6	2437	17.31	19.00	1.476	100	1.000	0.05	0.778	1.148
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	6	2437	17.31	19.00	1.476	100	1.000	0.18	0.589	0.869
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Standalone	1	2412	17.16	19.00	1.528	100	1.000	0.12	0.664	1.014
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Standalone	11	2462	17.11	19.00	1.545	100	1.000	-0.04	0.726	1.122
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	1	2412	17.16	19.00	1.528	100	1.000	0.09	0.525	0.802
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	11	2462	17.11	19.00	1.545	100	1.000	-0.02	0.551	0.851
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Simultaneous	6	2437	11.51	13.00	1.409	100	1.000	-0.08	0.060	0.085
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Simultaneous	6	2437	11.51	13.00	1.409	100	1.000	-0.18	0.071	0.100
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Simultaneous	6	2437	11.51	13.00	1.409	100	1.000	0.02	0.120	0.169
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Simultaneous	6	2437	11.51	13.00	1.409	100	1.000	-0.18	0.106	0.149
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Simultaneous	1	2412	11.36	13.00	1.459	100	1.000	-0.07	0.118	0.172
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Simultaneous	11	2462	11.36	13.00	1.459	100	1.000	0.1	0.114	0.166



FCC SAR TEST REPORT

Report No. : FA101920

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 13+9	Standalone	58	5290	18.20	19.50	1.349	100	1.000	0.06	0.294	0.397
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 13+9	Standalone	58	5290	18.20	19.50	1.349	100	1.000	0.16	0.293	0.395
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 13+9	Standalone	58	5290	18.20	19.50	1.349	100	1.000	0.07	0.665	0.897
27	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 13+9	Standalone	58	5290	18.20	19.50	1.349	100	1.000	0.04	0.669	0.902
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 13+9	Simultaneous	50	5250	12.54	14.00	1.400	100	1.000	-0.18	0.083	0.116
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 13+9	Simultaneous	50	5250	12.54	14.00	1.400	100	1.000	0.08	0.085	0.119
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 13+9	Simultaneous	50	5250	12.54	14.00	1.400	100	1.000	0	0.131	0.183
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 13+9	Simultaneous	50	5250	12.54	14.00	1.400	100	1.000	-0.09	0.122	0.171
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 13+9	Standalone	106	5530	19.43	21.00	1.435	100	1.000	0.07	0.448	0.643
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 13+9	Standalone	106	5530	19.43	21.00	1.435	100	1.000	0.01	0.373	0.535
28	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 13+9	Standalone	106	5530	19.43	21.00	1.435	100	1.000	-0.09	0.828	1.189
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 13+9	Standalone	106	5530	19.43	21.00	1.435	100	1.000	0.01	0.811	1.164
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 13+9	Standalone	122	5610	19.38	21.00	1.452	100	1.000	-0.01	0.466	0.677
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 13+9	Standalone	122	5610	19.38	21.00	1.452	100	1.000	0.08	0.318	0.462
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 13+9	Standalone	122	5610	19.38	21.00	1.452	100	1.000	-0.14	0.675	0.980
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 13+9	Standalone	122	5610	19.38	21.00	1.452	100	1.000	0.03	0.674	0.979
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 13+9	Simultaneous	114	5570	13.56	15.00	1.393	100	1.000	-0.12	0.095	0.132
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 13+9	Simultaneous	114	5570	13.56	15.00	1.393	100	1.000	-0.15	0.073	0.102
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 13+9	Simultaneous	114	5570	13.56	15.00	1.393	100	1.000	0.10	0.132	0.184
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 13+9	Simultaneous	114	5570	13.56	15.00	1.393	100	1.000	-0.13	0.128	0.178
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 13+9	Standalone(Full)	155	5775	20.25	22.00	1.496	100	1.000	0.06	0.291	0.435
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 13+9	Standalone(Full)	155	5775	20.25	22.00	1.496	100	1.000	-0.11	0.258	0.386
29	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 13+9	Standalone(Full)	155	5775	20.25	22.00	1.496	100	1.000	-0.1	0.687	1.027
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 13+9	Standalone(Full)	155	5775	20.25	22.00	1.496	100	1.000	0.08	0.604	0.903
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 13+9	Simultaneous	155	5775	12.80	14.50	1.479	100	1.000	0.12	0.058	0.086
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 13+9	Simultaneous	155	5775	12.80	14.50	1.479	100	1.000	0.1	0.044	0.065
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 13+9	Simultaneous	155	5775	12.80	14.50	1.479	100	1.000	-0.11	0.115	0.170
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 13+9	Simultaneous	155	5775	12.80	14.50	1.479	100	1.000	0.06	0.109	0.161

18.2 Hotspot SAR

Plot No.	Band	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_ANT 0	GPRS(4 Tx slots)	Front	10mm	DSI17	128	824.2	26.05	27.00	1.245	-0.18	0.317	0.395
	GSM850_ANT 0	GPRS(4 Tx slots)	Back	10mm	DSI17	128	824.2	26.05	27.00	1.245	-0.15	0.398	0.495
30	GSM850_ANT 0	GPRS(4 Tx slots)	Left Side	10mm	DSI17	128	824.2	26.05	27.00	1.245	0.03	0.568	0.707
	GSM850_ANT 0	DTM Multi-slot class 9	Left Side	10mm	DSI17	128	824.2	22.98	23.98	1.259	0.09	0.511	0.643
	GSM850_ANT 0	GPRS(4 Tx slots)	Right Side	10mm	DSI17	128	824.2	26.05	27.00	1.245	0.06	0.015	0.019
	GSM850_ANT 0	GPRS(4 Tx slots)	Top Side	10mm	DSI17	128	824.2	26.05	27.00	1.245	0.01	0.014	0.017
	GSM850_ANT 0	GPRS(4 Tx slots)	Left Side	10mm	DSI17	189	836.4	25.90	27.00	1.288	0.08	0.546	0.703
	GSM850_ANT 0	GPRS(4 Tx slots)	Left Side	10mm	DSI17	251	848.8	25.95	27.00	1.274	0.14	0.539	0.686
	GSM850_ANT 1	GPRS(4 Tx slots)	Front	10mm	DSI17	251	848.8	26.80	27.80	1.259	0.04	0.174	0.219
	GSM850_ANT 1	GPRS(4 Tx slots)	Back	10mm	DSI17	251	848.8	26.80	27.80	1.259	-0.03	0.203	0.256
	GSM850_ANT 1	GPRS(4 Tx slots)	Left Side	10mm	DSI17	251	848.8	26.80	27.80	1.259	-0.19	0.072	0.091
	GSM850_ANT 1	GPRS(4 Tx slots)	Right Side	10mm	DSI17	251	848.8	26.80	27.80	1.259	0.03	0.151	0.190
	GSM850_ANT 1	GPRS(4 Tx slots)	Bottom Side	10mm	DSI17	251	848.8	26.80	27.80	1.259	0.19	0.129	0.162
	GSM850_ANT 1	GPRS(4 Tx slots)	Back	10mm	DSI17	128	824.2	26.65	27.80	1.303	0.04	0.208	0.271
	GSM850_ANT 1	DTM Multi-slot class 9	Back	10mm	DSI17	128	824.2	23.70	24.78	1.282	0.07	0.195	0.250
	GSM850_ANT 1	GPRS(4 Tx slots)	Back	10mm	DSI17	189	836.4	26.30	27.80	1.413	0.18	0.191	0.270
	GSM1900_ANT 2	GPRS(4 Tx slots)	Front	10mm	DSI17	661	1880	23.91	24.80	1.227	-0.06	0.183	0.225
	GSM1900_ANT 2	GPRS(4 Tx slots)	Back	10mm	DSI17	661	1880	23.91	24.80	1.227	0.1	0.301	0.369
	GSM1900_ANT 2	GPRS(4 Tx slots)	Left Side	10mm	DSI17	661	1880	23.91	24.80	1.227	-0.03	0.411	0.504
	GSM1900_ANT 2	GPRS(4 Tx slots)	Right Side	10mm	DSI17	661	1880	23.91	24.80	1.227	-0.03	0.018	0.022
	GSM1900_ANT 2	GPRS(4 Tx slots)	Top Side	10mm	DSI17	661	1880	23.91	24.80	1.227	0.19	0.119	0.146
	GSM1900_ANT 2	GPRS(4 Tx slots)	Left Side	10mm	DSI17	512	1850.2	23.85	24.80	1.245	0.12	0.419	0.521
	GSM1900_ANT 2	DTM Multi-slot class 9	Left Side	10mm	DSI17	512	1850.2	20.46	21.78	1.355	0.07	0.378	0.512
	GSM1900_ANT 2	GPRS(4 Tx slots)	Left Side	10mm	DSI17	810	1909.8	23.86	24.80	1.242	-0.19	0.394	0.489
	GSM1900_ANT 3	GPRS(4 Tx slots)	Front	10mm	DSI17	810	1909.8	23.10	24.80	1.479	0.17	0.322	0.476
	GSM1900_ANT 3	GPRS(4 Tx slots)	Back	10mm	DSI17	810	1909.8	23.10	24.80	1.479	0.04	0.409	0.605
	GSM1900_ANT 3	GPRS(4 Tx slots)	Left Side	10mm	DSI17	810	1909.8	23.10	24.80	1.479	0.08	0.197	0.291
	GSM1900_ANT 3	GPRS(4 Tx slots)	Right Side	10mm	DSI17	810	1909.8	23.10	24.80	1.479	0.16	0.069	0.102
	GSM1900_ANT 3	GPRS(4 Tx slots)	Bottom Side	10mm	DSI17	810	1909.8	23.10	24.80	1.479	0.17	0.501	0.741
31	GSM1900_ANT 3	GPRS(4 Tx slots)	Bottom Side	10mm	DSI17	512	1850.2	23.00	24.80	1.514	-0.03	0.520	0.787
	GSM1900_ANT 3	DTM Multi-slot class 9	Bottom Side	10mm	DSI17	512	1850.2	20.25	21.78	1.422	0.02	0.423	0.602
	GSM1900_ANT 3	GPRS(4 Tx slots)	Bottom Side	10mm	DSI17	661	1880	22.99	24.80	1.517	-0.16	0.510	0.774



<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_ANT 0	RMC 12.2Kbps	Front	10mm	DS117	4132	826.4	20.87	21.80	1.239	0.06	0.205	0.254
	WCDMA V_ANT 0	RMC 12.2Kbps	Back	10mm	DS117	4132	826.4	20.87	21.80	1.239	-0.1	0.242	0.300
	WCDMA V_ANT 0	RMC 12.2Kbps	Left Side	10mm	DS117	4132	826.4	20.87	21.80	1.239	-0.13	0.459	0.569
	WCDMA V_ANT 0	RMC 12.2Kbps	Right Side	10mm	DS117	4132	826.4	20.87	21.80	1.239	-0.08	0.005	0.006
	WCDMA V_ANT 0	RMC 12.2Kbps	Top Side	10mm	DS117	4132	826.4	20.87	21.80	1.239	0.1	0.009	0.011
32	WCDMA V_ANT 0	RMC 12.2Kbps	Left Side	10mm	DS117	4182	836.4	20.80	21.80	1.259	-0.04	0.497	0.626
	WCDMA V_ANT 0	RMC 12.2Kbps	Left Side	10mm	DS117	4233	846.6	20.81	21.80	1.256	-0.07	0.471	0.592
	WCDMA V_ANT 1	RMC 12.2Kbps	Front	10mm	DS117	4132	826.4	24.09	24.80	1.178	-0.03	0.215	0.253
	WCDMA V_ANT 1	RMC 12.2Kbps	Back	10mm	DS117	4132	826.4	24.09	24.80	1.178	0.02	0.248	0.292
	WCDMA V_ANT 1	RMC 12.2Kbps	Left Side	10mm	DS117	4132	826.4	24.09	24.80	1.178	0.08	0.057	0.067
	WCDMA V_ANT 1	RMC 12.2Kbps	Right Side	10mm	DS117	4132	826.4	24.09	24.80	1.178	-0.17	0.246	0.290
	WCDMA V_ANT 1	RMC 12.2Kbps	Bottom Side	10mm	DS117	4132	826.4	24.09	24.80	1.178	0.09	0.163	0.192
	WCDMA V_ANT 1	RMC 12.2Kbps	Back	10mm	DS117	4182	836.4	24.08	24.80	1.180	0.03	0.272	0.321
	WCDMA V_ANT 1	RMC 12.2Kbps	Back	10mm	DS117	4233	846.6	24.08	24.80	1.180	0.12	0.244	0.288
	WCDMA IV_ANT 2	RMC 12.2Kbps	Front	10mm	DS117	1413	1732.6	21.79	22.30	1.125	-0.01	0.191	0.215
	WCDMA IV_ANT 2	RMC 12.2Kbps	Back	10mm	DS117	1413	1732.6	21.79	22.30	1.125	0.07	0.309	0.348
	WCDMA IV_ANT 2	RMC 12.2Kbps	Left Side	10mm	DS117	1413	1732.6	21.79	22.30	1.125	0.11	0.445	0.500
	WCDMA IV_ANT 2	RMC 12.2Kbps	Right Side	10mm	DS117	1413	1732.6	21.79	22.30	1.125	0.01	0.036	0.040
	WCDMA IV_ANT 2	RMC 12.2Kbps	Top Side	10mm	DS117	1413	1732.6	21.79	22.30	1.125	0.1	0.034	0.038
	WCDMA IV_ANT 2	RMC 12.2Kbps	Left Side	10mm	DS117	1312	1712.4	21.68	22.30	1.153	-0.16	0.397	0.458
	WCDMA IV_ANT 2	RMC 12.2Kbps	Left Side	10mm	DS117	1513	1752.6	21.78	22.30	1.127	-0.08	0.551	0.621
	WCDMA IV_ANT 3	RMC 12.2Kbps	Front	10mm	DS117	1413	1732.6	20.09	21.00	1.233	-0.11	0.340	0.419
	WCDMA IV_ANT 3	RMC 12.2Kbps	Back	10mm	DS117	1413	1732.6	20.09	21.00	1.233	-0.18	0.358	0.441
	WCDMA IV_ANT 3	RMC 12.2Kbps	Left Side	10mm	DS117	1413	1732.6	20.09	21.00	1.233	0.06	0.223	0.275
	WCDMA IV_ANT 3	RMC 12.2Kbps	Right Side	10mm	DS117	1413	1732.6	20.09	21.00	1.233	-0.14	0.137	0.169
	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	10mm	DS117	1413	1732.6	20.09	21.00	1.233	0.18	0.444	0.547
33	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	10mm	DS117	1312	1712.4	19.94	21.00	1.276	-0.17	0.520	0.664
	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	10mm	DS117	1513	1752.6	20.08	21.00	1.236	-0.04	0.469	0.580
	WCDMA II_ANT 2	RMC 12.2Kbps	Front	10mm	DS117	9400	1880	20.63	21.30	1.167	0.14	0.283	0.330
	WCDMA II_ANT 2	RMC 12.2Kbps	Back	10mm	DS117	9400	1880	20.63	21.30	1.167	-0.05	0.428	0.499
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	10mm	DS117	9400	1880	20.63	21.30	1.167	0.01	0.562	0.656
	WCDMA II_ANT 2	RMC 12.2Kbps	Right Side	10mm	DS117	9400	1880	20.63	21.30	1.167	-	n/a	n/a
	WCDMA II_ANT 2	RMC 12.2Kbps	Top Side	10mm	DS117	9400	1880	20.63	21.30	1.167	0.15	0.048	0.056
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	10mm	DS117	9262	1852.4	20.50	21.30	1.202	0.12	0.545	0.655
34	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	10mm	DS117	9538	1907.6	20.48	21.30	1.208	-0.1	0.615	0.743
	WCDMA II_ANT 3	RMC 12.2Kbps	Front	10mm	DS117	9400	1880	20.27	21.30	1.268	-0.13	0.281	0.356
	WCDMA II_ANT 3	RMC 12.2Kbps	Back	10mm	DS117	9400	1880	20.27	21.30	1.268	-0.01	0.385	0.488
	WCDMA II_ANT 3	RMC 12.2Kbps	Left Side	10mm	DS117	9400	1880	20.27	21.30	1.268	-0.17	0.208	0.264
	WCDMA II_ANT 3	RMC 12.2Kbps	Right Side	10mm	DS117	9400	1880	20.27	21.30	1.268	-0.04	0.072	0.091
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	10mm	DS117	9400	1880	20.27	21.30	1.268	0.17	0.491	0.622
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	10mm	DS117	9262	1852.4	20.11	21.30	1.315	0.01	0.540	0.710
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	10mm	DS117	9538	1907.6	20.14	21.30	1.306	-0.12	0.469	0.613



FCC SAR TEST REPORT

Report No. : FA101920

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_ANT 0	20M	QPSK	1	0	Front	10mm	DSI17	133322	683	22.95	24.00	1.274	-0.17	0.255	0.325
	LTE Band 71_ANT 0	20M	QPSK	1	0	Back	10mm	DSI17	133322	683	22.95	24.00	1.274	-0.16	0.406	0.517
35	LTE Band 71_ANT 0	20M	QPSK	1	0	Left Side	10mm	DSI17	133322	683	22.95	24.00	1.274	-0.19	0.573	0.730
	LTE Band 71_ANT 0	20M	QPSK	1	0	Right Side	10mm	DSI17	133322	683	22.95	24.00	1.274	0.01	0.038	0.048
	LTE Band 71_ANT 0	20M	QPSK	1	0	Top Side	10mm	DSI17	133322	683	22.95	24.00	1.274	0.05	0.014	0.018
	LTE Band 71_ANT 0	20M	QPSK	50	0	Front	10mm	DSI17	133322	683	21.92	23.00	1.282	0.08	0.203	0.260
	LTE Band 71_ANT 0	20M	QPSK	50	0	Back	10mm	DSI17	133322	683	21.92	23.00	1.282	0.06	0.293	0.376
	LTE Band 71_ANT 0	20M	QPSK	50	0	Left Side	10mm	DSI17	133322	683	21.92	23.00	1.282	0.14	0.475	0.609
	LTE Band 71_ANT 0	20M	QPSK	50	0	Right Side	10mm	DSI17	133322	683	21.92	23.00	1.282	0.06	0.029	0.037
	LTE Band 71_ANT 0	20M	QPSK	50	0	Top Side	10mm	DSI17	133322	683	21.92	23.00	1.282	-0.11	0.011	0.014
	LTE Band 71_ANT 1	20M	QPSK	1	0	Front	10mm	DSI17	133322	683	24.15	24.80	1.161	0.03	0.180	0.209
	LTE Band 71_ANT 1	20M	QPSK	1	0	Back	10mm	DSI17	133322	683	24.15	24.80	1.161	-0.11	0.189	0.220
	LTE Band 71_ANT 1	20M	QPSK	1	0	Left Side	10mm	DSI17	133322	683	24.15	24.80	1.161	-0.19	0.089	0.103
	LTE Band 71_ANT 1	20M	QPSK	1	0	Right Side	10mm	DSI17	133322	683	24.15	24.80	1.161	0.07	0.350	0.407
	LTE Band 71_ANT 1	20M	QPSK	1	0	Bottom Side	10mm	DSI17	133322	683	24.15	24.80	1.161	-0.08	0.135	0.157
	LTE Band 71_ANT 1	20M	QPSK	50	0	Front	10mm	DSI17	133322	683	23.10	23.80	1.175	0.17	0.158	0.186
	LTE Band 71_ANT 1	20M	QPSK	50	0	Back	10mm	DSI17	133322	683	23.10	23.80	1.175	-0.08	0.169	0.199
	LTE Band 71_ANT 1	20M	QPSK	50	0	Left Side	10mm	DSI17	133322	683	23.10	23.80	1.175	-0.01	0.070	0.082
	LTE Band 71_ANT 1	20M	QPSK	50	0	Right Side	10mm	DSI17	133322	683	23.10	23.80	1.175	0.19	0.301	0.354
	LTE Band 71_ANT 1	20M	QPSK	50	0	Bottom Side	10mm	DSI17	133322	683	23.10	23.80	1.175	-0.08	0.114	0.134
	LTE Band 12_ANT 0	10M	QPSK	1	0	Front	10mm	DSI17	23095	707.5	20.31	21.00	1.172	-0.13	0.193	0.226
	LTE Band 12_ANT 0	10M	QPSK	1	0	Back	10mm	DSI17	23095	707.5	20.31	21.00	1.172	-0.19	0.230	0.270
	LTE Band 12_ANT 0	10M	QPSK	1	0	Left Side	10mm	DSI17	23095	707.5	20.31	21.00	1.172	0.11	0.371	0.435
	LTE Band 12_ANT 0	10M	QPSK	1	0	Right Side	10mm	DSI17	23095	707.5	20.31	21.00	1.172	0.09	0.014	0.016
	LTE Band 12_ANT 0	10M	QPSK	1	0	Top Side	10mm	DSI17	23095	707.5	20.31	21.00	1.172	0.04	0.007	0.009
	LTE Band 12_ANT 0	10M	QPSK	25	0	Front	10mm	DSI17	23095	707.5	20.26	21.00	1.186	-0.01	0.189	0.224
	LTE Band 12_ANT 0	10M	QPSK	25	0	Back	10mm	DSI17	23095	707.5	20.26	21.00	1.186	0.14	0.230	0.273
	LTE Band 12_ANT 0	10M	QPSK	25	0	Left Side	10mm	DSI17	23095	707.5	20.26	21.00	1.186	0.18	0.358	0.425
	LTE Band 12_ANT 0	10M	QPSK	25	0	Right Side	10mm	DSI17	23095	707.5	20.26	21.00	1.186	-0.19	0.013	0.015
	LTE Band 12_ANT 0	10M	QPSK	25	0	Top Side	10mm	DSI17	23095	707.5	20.26	21.00	1.186	0.18	0.007	0.008
	LTE Band 12_ANT 1	10M	QPSK	1	0	Front	10mm	DSI17	23095	707.5	23.92	24.80	1.225	-0.15	0.195	0.239
	LTE Band 12_ANT 1	10M	QPSK	1	0	Back	10mm	DSI17	23095	707.5	23.92	24.80	1.225	-0.19	0.224	0.274
	LTE Band 12_ANT 1	10M	QPSK	1	0	Left Side	10mm	DSI17	23095	707.5	23.92	24.80	1.225	0.18	0.095	0.116
36	LTE Band 12_ANT 1	10M	QPSK	1	0	Right Side	10mm	DSI17	23095	707.5	23.92	24.80	1.225	0.16	0.421	0.516
	LTE Band 12_ANT 1	10M	QPSK	1	0	Bottom Side	10mm	DSI17	23095	707.5	23.92	24.80	1.225	-0.05	0.181	0.222
	LTE Band 12_ANT 1	10M	QPSK	25	0	Front	10mm	DSI17	23095	707.5	22.95	23.80	1.216	-0.07	0.155	0.189
	LTE Band 12_ANT 1	10M	QPSK	25	0	Back	10mm	DSI17	23095	707.5	22.95	23.80	1.216	0.14	0.175	0.213
	LTE Band 12_ANT 1	10M	QPSK	25	0	Left Side	10mm	DSI17	23095	707.5	22.95	23.80	1.216	-0.14	0.073	0.089
	LTE Band 12_ANT 1	10M	QPSK	25	0	Right Side	10mm	DSI17	23095	707.5	22.95	23.80	1.216	-0.05	0.315	0.383
	LTE Band 12_ANT 1	10M	QPSK	25	0	Bottom Side	10mm	DSI17	23095	707.5	22.95	23.80	1.216	-0.14	0.143	0.174
	LTE Band 13_ANT 0	10M	QPSK	1	0	Front	10mm	DSI17	23230	782	20.06	21.00	1.242	-0.11	0.210	0.261
	LTE Band 13_ANT 0	10M	QPSK	1	0	Back	10mm	DSI17	23230	782	20.06	21.00	1.242	0.11	0.260	0.323
37	LTE Band 13_ANT 0	10M	QPSK	1	0	Left Side	10mm	DSI17	23230	782	20.06	21.00	1.242	0.03	0.420	0.521
	LTE Band 13_ANT 0	10M	QPSK	1	0	Right Side	10mm	DSI17	23230	782	20.06	21.00	1.242	-0.17	0.030	0.038
	LTE Band 13_ANT 0	10M	QPSK	1	0	Top Side	10mm	DSI17	23230	782	20.06	21.00	1.242	-0.17	0.008	0.009
	LTE Band 13_ANT 0	10M	QPSK	25	0	Front	10mm	DSI17	23230	782	20.01	21.00	1.256	-0.03	0.220	0.276
	LTE Band 13_ANT 0	10M	QPSK	25	0	Back	10mm	DSI17	23230	782	20.01	21.00	1.256	0.15	0.265	0.333
	LTE Band 13_ANT 0	10M	QPSK	25	0	Left Side	10mm	DSI17	23230	782	20.01	21.00	1.256	-0.14	0.378	0.475
	LTE Band 13_ANT 0	10M	QPSK	25	0	Right Side	10mm	DSI17	23230	782	20.01	21.00	1.256	-0.12	0.031	0.039
	LTE Band 13_ANT 0	10M	QPSK	25	0	Top Side	10mm	DSI17	23230	782	20.01	21.00	1.256	0.04	0.007	0.009
	LTE Band 13_ANT 1	10M	QPSK	1	0	Front	10mm	DSI17	23230	782	23.75	24.80	1.274	0.1	0.189	0.241
	LTE Band 13_ANT 1	10M	QPSK	1	0	Back	10mm	DSI17	23230	782	23.75	24.80	1.274	-0.19	0.262	0.334
	LTE Band 13_ANT 1	10M	QPSK	1	0	Left Side	10mm	DSI17	23230	782	23.75	24.80	1.274	0.19	0.130	0.166
	LTE Band 13_ANT 1	10M	QPSK	1	0	Right Side	10mm	DSI17	23230	782	23.75	24.80	1.274	0.18	0.360	0.458
	LTE Band 13_ANT 1	10M	QPSK	1	0	Bottom Side	10mm	DSI17	23230	782	23.75	24.80	1.274	-0.09	0.191	0.243



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 13_ANT 1	10M	QPSK	25	0	Front	10mm	DSI17	23230	782	22.67	23.80	1.297	-0.12	0.157	0.204
	LTE Band 13_ANT 1	10M	QPSK	25	0	Back	10mm	DSI17	23230	782	22.67	23.80	1.297	-0.12	0.194	0.252
	LTE Band 13_ANT 1	10M	QPSK	25	0	Left Side	10mm	DSI17	23230	782	22.67	23.80	1.297	0.1	0.075	0.097
	LTE Band 13_ANT 1	10M	QPSK	25	0	Right Side	10mm	DSI17	23230	782	22.67	23.80	1.297	-0.1	0.211	0.274
	LTE Band 13_ANT 1	10M	QPSK	25	0	Bottom Side	10mm	DSI17	23230	782	22.67	23.80	1.297	0.17	0.153	0.198
	LTE Band 26_ANT 0	15M	QPSK	1	0	Front	10mm	DSI17	26865	831.5	20.27	21.00	1.183	0.16	0.156	0.185
	LTE Band 26_ANT 0	15M	QPSK	1	0	Back	10mm	DSI17	26865	831.5	20.27	21.00	1.183	0.01	0.199	0.235
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Side	10mm	DSI17	26865	831.5	20.27	21.00	1.183	0.18	0.323	0.382
	LTE Band 26_ANT 0	15M	QPSK	1	0	Right Side	10mm	DSI17	26865	831.5	20.27	21.00	1.183	0.03	0.009	0.011
	LTE Band 26_ANT 0	15M	QPSK	1	0	Top Side	10mm	DSI17	26865	831.5	20.27	21.00	1.183	0.01	0.005	0.006
	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Side	10mm	DSI17	26765	821.5	20.05	21.00	1.245	0.12	0.334	0.416
38	LTE Band 26_ANT 0	15M	QPSK	1	0	Left Side	10mm	DSI17	26965	841.5	20.07	21.00	1.239	0.05	0.353	0.437
	LTE Band 26_ANT 0	15M	QPSK	36	0	Front	10mm	DSI17	26865	831.5	20.12	21.00	1.225	0.08	0.150	0.184
	LTE Band 26_ANT 0	15M	QPSK	36	0	Back	10mm	DSI17	26865	831.5	20.12	21.00	1.225	0.18	0.177	0.217
	LTE Band 26_ANT 0	15M	QPSK	36	0	Left Side	10mm	DSI17	26865	831.5	20.12	21.00	1.225	0.09	0.285	0.349
	LTE Band 26_ANT 0	15M	QPSK	36	0	Right Side	10mm	DSI17	26865	831.5	20.12	21.00	1.225	0.01	0.008	0.010
	LTE Band 26_ANT 0	15M	QPSK	36	0	Top Side	10mm	DSI17	26865	831.5	20.12	21.00	1.225	0.06	0.005	0.006
	LTE Band 26_ANT 1	15M	QPSK	1	0	Front	10mm	DSI17	26865	831.5	23.85	24.80	1.245	-0.13	0.211	0.263
	LTE Band 26_ANT 1	15M	QPSK	1	0	Back	10mm	DSI17	26865	831.5	23.85	24.80	1.245	0.08	0.226	0.281
	LTE Band 26_ANT 1	15M	QPSK	1	0	Left Side	10mm	DSI17	26865	831.5	23.85	24.80	1.245	0.09	0.069	0.086
	LTE Band 26_ANT 1	15M	QPSK	1	0	Right Side	10mm	DSI17	26865	831.5	23.85	24.80	1.245	-0.04	0.172	0.214
	LTE Band 26_ANT 1	15M	QPSK	1	0	Bottom Side	10mm	DSI17	26865	831.5	23.85	24.80	1.245	0.19	0.142	0.177
	LTE Band 26_ANT 1	15M	QPSK	1	0	Back	10mm	DSI17	26765	821.5	23.65	24.80	1.303	-0.13	0.206	0.268
	LTE Band 26_ANT 1	15M	QPSK	1	0	Back	10mm	DSI17	26965	841.5	23.62	24.80	1.312	-0.13	0.245	0.321
	LTE Band 26_ANT 1	15M	QPSK	36	0	Front	10mm	DSI17	26865	831.5	22.74	23.80	1.276	-0.04	0.166	0.212
	LTE Band 26_ANT 1	15M	QPSK	36	0	Back	10mm	DSI17	26865	831.5	22.74	23.80	1.276	-0.16	0.172	0.220
	LTE Band 26_ANT 1	15M	QPSK	36	0	Left Side	10mm	DSI17	26865	831.5	22.74	23.80	1.276	-0.1	0.058	0.074
	LTE Band 26_ANT 1	15M	QPSK	36	0	Right Side	10mm	DSI17	26865	831.5	22.74	23.80	1.276	-0.11	0.155	0.198
	LTE Band 26_ANT 1	15M	QPSK	36	0	Bottom Side	10mm	DSI17	26865	831.5	22.74	23.80	1.276	0.17	0.106	0.135
	LTE Band 66_ANT 2	20M	QPSK	1	0	Front	10mm	DSI17	132322	1745	21.33	22.00	1.167	-0.06	0.158	0.184
	LTE Band 66_ANT 2	20M	QPSK	1	0	Back	10mm	DSI17	132322	1745	21.33	22.00	1.167	0.17	0.243	0.284
	LTE Band 66_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	132322	1745	21.33	22.00	1.167	-0.17	0.374	0.436
	LTE Band 66_ANT 2	20M	QPSK	1	0	Right Side	10mm	DSI17	132322	1745	21.33	22.00	1.167	0.06	0.035	0.041
	LTE Band 66_ANT 2	20M	QPSK	1	0	Top Side	10mm	DSI17	132322	1745	21.33	22.00	1.167	0.02	0.032	0.037
	LTE Band 66_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	132072	1720	21.27	22.00	1.183	0.06	0.355	0.420
	LTE Band 66_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	132572	1770	21.18	22.00	1.208	0.04	0.495	0.598
	LTE Band 66_ANT 2	20M	QPSK	50	0	Front	10mm	DSI17	132322	1745	21.19	22.00	1.205	-0.01	0.163	0.196
	LTE Band 66_ANT 2	20M	QPSK	50	0	Back	10mm	DSI17	132322	1745	21.19	22.00	1.205	0.16	0.246	0.296
	LTE Band 66_ANT 2	20M	QPSK	50	0	Left Side	10mm	DSI17	132322	1745	21.19	22.00	1.205	0.01	0.393	0.474
	LTE Band 66_ANT 2	20M	QPSK	50	0	Right Side	10mm	DSI17	132322	1745	21.19	22.00	1.205	0.03	0.048	0.058
	LTE Band 66_ANT 2	20M	QPSK	50	0	Top Side	10mm	DSI17	132322	1745	21.19	22.00	1.205	0.06	0.026	0.031
	LTE Band 66_ANT 3	20M	QPSK	1	0	Front	10mm	DSI17	132322	1745	20.32	21.30	1.253	-0.1	0.313	0.392
	LTE Band 66_ANT 3	20M	QPSK	1	0	Back	10mm	DSI17	132322	1745	20.32	21.30	1.253	-0.07	0.333	0.417
	LTE Band 66_ANT 3	20M	QPSK	1	0	Left Side	10mm	DSI17	132322	1745	20.32	21.30	1.253	0.02	0.187	0.234
	LTE Band 66_ANT 3	20M	QPSK	1	0	Right Side	10mm	DSI17	132322	1745	20.32	21.30	1.253	0.15	0.111	0.139
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	132322	1745	20.32	21.30	1.253	0.19	0.437	0.548
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	132072	1720	20.12	21.30	1.312	-0.11	0.426	0.559
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	132572	1770	20.21	21.30	1.285	0.13	0.465	0.598
	LTE Band 66_ANT 3	20M	QPSK	50	0	Front	10mm	DSI17	132322	1745	20.31	21.30	1.256	0.13	0.325	0.408
	LTE Band 66_ANT 3	20M	QPSK	50	0	Back	10mm	DSI17	132322	1745	20.31	21.30	1.256	0.04	0.344	0.432
	LTE Band 66_ANT 3	20M	QPSK	50	0	Left Side	10mm	DSI17	132322	1745	20.31	21.30	1.256	-0.06	0.185	0.232
	LTE Band 66_ANT 3	20M	QPSK	50	0	Right Side	10mm	DSI17	132322	1745	20.31	21.30	1.256	0.02	0.111	0.139
	LTE Band 66_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	132322	1745	20.31	21.30	1.256	0.07	0.425	0.534
	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	10mm	DSI17	132322	1745	18.08	18.80	1.180	0.11	0.281	0.332
	LTE Band 66_ANT 5	20M	QPSK	1	0	Back	10mm	DSI17	132322	1745	18.08	18.80	1.180	0	0.335	0.395
	LTE Band 66_ANT 5	20M	QPSK	1	0	Left Side	10mm	DSI17	132322	1745	18.08	18.80	1.180	-0.04	0.053	0.063
	LTE Band 66_ANT 5	20M	QPSK	1	0	Right Side	10mm	DSI17	132322	1745	18.08	18.80	1.180	-0.01	0.041	0.048
	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	10mm	DSI17	132322	1745	18.08	18.80	1.180	-0.18	0.579	0.683
	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	10mm	DSI17	132072	1720	18.06	18.80	1.186	-0.09	0.547	0.649



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	10mm	DSI17	132572	1770	18.07	18.80	1.183	-0.02	0.426	0.504
	LTE Band 66_ANT 5	20M	QPSK	50	0	Front	10mm	DSI17	132322	1745	18.07	18.80	1.183	0.11	0.286	0.338
	LTE Band 66_ANT 5	20M	QPSK	50	0	Back	10mm	DSI17	132322	1745	18.07	18.80	1.183	-0.18	0.371	0.439
	LTE Band 66_ANT 5	20M	QPSK	50	0	Left Side	10mm	DSI17	132322	1745	18.07	18.80	1.183	0.12	0.049	0.058
	LTE Band 66_ANT 5	20M	QPSK	50	0	Right Side	10mm	DSI17	132322	1745	18.07	18.80	1.183	0.15	0.035	0.041
	LTE Band 66_ANT 5	20M	QPSK	50	0	Top Side	10mm	DSI17	132322	1745	18.07	18.80	1.183	-0.1	0.548	0.648
	LTE Band 66_ANT 1	20M	QPSK	1	0	Front	10mm	DSI17	132322	1745	20.87	21.80	1.239	0.06	0.241	0.299
	LTE Band 66_ANT 1	20M	QPSK	1	0	Back	10mm	DSI17	132322	1745	20.87	21.80	1.239	0.18	0.228	0.282
	LTE Band 66_ANT 1	20M	QPSK	1	0	Left Side	10mm	DSI17	132322	1745	20.87	21.80	1.239	-0.14	0.009	0.011
39	LTE Band 66_ANT 1	20M	QPSK	1	0	Right Side	10mm	DSI17	132322	1745	20.87	21.80	1.239	-0.07	0.567	0.702
	LTE Band 66_ANT 1	20M	QPSK	1	0	Bottom Side	10mm	DSI17	132322	1745	20.87	21.80	1.239	-0.1	0.078	0.097
	LTE Band 66_ANT 1	20M	QPSK	1	0	Right Side	10mm	DSI17	132072	1720	20.85	21.80	1.245	-0.18	0.376	0.468
	LTE Band 66_ANT 1	20M	QPSK	1	0	Right Side	10mm	DSI17	132572	1770	20.84	21.80	1.247	0.16	0.409	0.510
	LTE Band 66_ANT 1	20M	QPSK	50	0	Front	10mm	DSI17	132322	1745	20.85	21.80	1.245	-0.08	0.222	0.276
	LTE Band 66_ANT 1	20M	QPSK	50	0	Back	10mm	DSI17	132322	1745	20.85	21.80	1.245	-0.13	0.220	0.274
	LTE Band 66_ANT 1	20M	QPSK	50	0	Left Side	10mm	DSI17	132322	1745	20.85	21.80	1.245	-0.09	0.008	0.010
	LTE Band 66_ANT 1	20M	QPSK	50	0	Right Side	10mm	DSI17	132322	1745	20.85	21.80	1.245	0.06	0.557	0.693
	LTE Band 66_ANT 1	20M	QPSK	50	0	Bottom Side	10mm	DSI17	132322	1745	20.85	21.80	1.245	-0.19	0.069	0.086
	LTE Band 25_ANT 2	20M	QPSK	1	0	Front	10mm	DSI17	26340	1880	22.20	22.80	1.148	-0.07	0.320	0.367
	LTE Band 25_ANT 2	20M	QPSK	1	0	Back	10mm	DSI17	26340	1880	22.20	22.80	1.148	0.02	0.419	0.481
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	26340	1880	22.20	22.80	1.148	-0.01	0.591	0.679
	LTE Band 25_ANT 2	20M	QPSK	1	0	Right Side	10mm	DSI17	26340	1880	22.20	22.80	1.148	-0.18	0.020	0.022
	LTE Band 25_ANT 2	20M	QPSK	1	0	Top Side	10mm	DSI17	26340	1880	22.20	22.80	1.148	-0.11	0.091	0.104
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	26140	1860	22.15	22.80	1.161	0.06	0.570	0.662
40	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	26590	1905	22.08	22.80	1.180	0.02	0.654	0.772
	LTE Band 25_ANT 2	20M	QPSK	50	0	Front	10mm	DSI17	26340	1880	21.96	22.80	1.213	-0.05	0.281	0.341
	LTE Band 25_ANT 2	20M	QPSK	50	0	Back	10mm	DSI17	26340	1880	21.96	22.80	1.213	-0.08	0.421	0.511
	LTE Band 25_ANT 2	20M	QPSK	50	0	Left Side	10mm	DSI17	26340	1880	21.96	22.80	1.213	-0.12	0.499	0.605
	LTE Band 25_ANT 2	20M	QPSK	50	0	Right Side	10mm	DSI17	26340	1880	21.96	22.80	1.213	0.08	0.000	0.000
	LTE Band 25_ANT 2	20M	QPSK	50	0	Top Side	10mm	DSI17	26340	1880	21.96	22.80	1.213	-0.07	0.160	0.194
	LTE Band 25_ANT 3	20M	QPSK	1	0	Front	10mm	DSI17	26340	1880	19.98	21.30	1.355	0.13	0.255	0.346
	LTE Band 25_ANT 3	20M	QPSK	1	0	Back	10mm	DSI17	26340	1880	19.98	21.30	1.355	0	0.335	0.454
	LTE Band 25_ANT 3	20M	QPSK	1	0	Left Side	10mm	DSI17	26340	1880	19.98	21.30	1.355	0.02	0.189	0.256
	LTE Band 25_ANT 3	20M	QPSK	1	0	Right Side	10mm	DSI17	26340	1880	19.98	21.30	1.355	-0.02	0.000	0.000
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	26340	1880	19.98	21.30	1.355	0.05	0.445	0.603
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	26140	1860	19.78	21.30	1.419	0.1	0.510	0.724
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	26590	1905	19.86	21.30	1.393	0.03	0.484	0.674
	LTE Band 25_ANT 3	20M	QPSK	50	0	Front	10mm	DSI17	26340	1880	19.85	21.30	1.396	-0.13	0.285	0.398
	LTE Band 25_ANT 3	20M	QPSK	50	0	Back	10mm	DSI17	26340	1880	19.85	21.30	1.396	-0.02	0.298	0.416
	LTE Band 25_ANT 3	20M	QPSK	50	0	Left Side	10mm	DSI17	26340	1880	19.85	21.30	1.396	-0.12	0.190	0.265
	LTE Band 25_ANT 3	20M	QPSK	50	0	Right Side	10mm	DSI17	26340	1880	19.85	21.30	1.396	-0.1	0.065	0.091
	LTE Band 25_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	26340	1880	19.85	21.30	1.396	0.15	0.440	0.614
	LTE Band 30_ANT 2	10M	QPSK	1	0	Front	10mm	DSI17	27710	2310	20.25	21.00	1.189	0.06	0.135	0.160
	LTE Band 30_ANT 2	10M	QPSK	1	0	Back	10mm	DSI17	27710	2310	20.25	21.00	1.189	0.04	0.203	0.241
	LTE Band 30_ANT 2	10M	QPSK	1	0	Left Side	10mm	DSI17	27710	2310	20.25	21.00	1.189	0.1	0.341	0.405
	LTE Band 30_ANT 2	10M	QPSK	1	0	Right Side	10mm	DSI17	27710	2310	20.25	21.00	1.189	-0.17	0.008	0.009
	LTE Band 30_ANT 2	10M	QPSK	1	0	Top Side	10mm	DSI17	27710	2310	20.25	21.00	1.189	0.02	0.051	0.061
	LTE Band 30_ANT 2	10M	QPSK	25	0	Front	10mm	DSI17	27710	2310	20.18	21.00	1.208	0.14	0.125	0.151
	LTE Band 30_ANT 2	10M	QPSK	25	0	Back	10mm	DSI17	27710	2310	20.18	21.00	1.208	0.01	0.182	0.220
	LTE Band 30_ANT 2	10M	QPSK	25	0	Left Side	10mm	DSI17	27710	2310	20.18	21.00	1.208	-0.19	0.270	0.326
	LTE Band 30_ANT 2	10M	QPSK	25	0	Right Side	10mm	DSI17	27710	2310	20.18	21.00	1.208	0.03	0.070	0.085
	LTE Band 30_ANT 2	10M	QPSK	25	0	Top Side	10mm	DSI17	27710	2310	20.18	21.00	1.208	0.04	0.041	0.050
	LTE Band 30_ANT 3	10M	QPSK	1	0	Front	10mm	DSI17	27710	2310	21.41	22.80	1.377	0.14	0.408	0.562
	LTE Band 30_ANT 3	10M	QPSK	1	0	Back	10mm	DSI17	27710	2310	21.41	22.80	1.377	-0.02	0.417	0.574
	LTE Band 30_ANT 3	10M	QPSK	1	0	Left Side	10mm	DSI17	27710	2310	21.41	22.80	1.377	0.12	0.212	0.292
	LTE Band 30_ANT 3	10M	QPSK	1	0	Right Side	10mm	DSI17	27710	2310	21.41	22.80	1.377	-0.12	0.099	0.136
41	LTE Band 30_ANT 3	10M	QPSK	1	0	Bottom Side	10mm	DSI17	27710	2310	21.41	22.80	1.377	-0.13	0.578	0.796
	LTE Band 30_ANT 3	10M	QPSK	25	0	Front	10mm	DSI17	27710	2310	21.32	22.80	1.406	-0.1	0.363	0.510
	LTE Band 30_ANT 3	10M	QPSK	25	0	Back	10mm	DSI17	27710	2310	21.32	22.80	1.406	-0.07	0.367	0.516



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 30_ANT 3	10M	QPSK	25	0	Left Side	10mm	DSI17	27710	2310	21.32	22.80	1.406	0.19	0.216	0.304
	LTE Band 30_ANT 3	10M	QPSK	25	0	Right Side	10mm	DSI17	27710	2310	21.32	22.80	1.406	-0.13	0.100	0.141
	LTE Band 30_ANT 3	10M	QPSK	25	0	Bottom Side	10mm	DSI17	27710	2310	21.32	22.80	1.406	-0.17	0.503	0.707
	LTE Band 7_ANT 2	20M	QPSK	1	0	Front	10mm	DSI17	21100	2535	20.22	21.00	1.197	0.17	0.183	0.219
	LTE Band 7_ANT 2	20M	QPSK	1	0	Back	10mm	DSI17	21100	2535	20.22	21.00	1.197	-0.05	0.284	0.340
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	21100	2535	20.22	21.00	1.197	-0.06	0.479	0.573
	LTE Band 7_ANT 2	20M	QPSK	1	0	Right Side	10mm	DSI17	21100	2535	20.22	21.00	1.197	0.04	0.007	0.008
	LTE Band 7_ANT 2	20M	QPSK	1	0	Top Side	10mm	DSI17	21100	2535	20.22	21.00	1.197	-0.01	0.036	0.043
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	20850	2510	20.12	21.00	1.225	0.09	0.469	0.574
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	21350	2560	20.08	21.00	1.236	0.01	0.493	0.609
	LTE Band 7C_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	21350+21152	2560+2540.2	20.06	21.00	1.242	0.02	0.458	0.569
	LTE Band 7_ANT 2	20M	QPSK	50	0	Front	10mm	DSI17	21100	2535	20.11	21.00	1.227	0.09	0.170	0.209
	LTE Band 7_ANT 2	20M	QPSK	50	0	Back	10mm	DSI17	21100	2535	20.11	21.00	1.227	0.03	0.248	0.304
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Side	10mm	DSI17	21100	2535	20.11	21.00	1.227	0.19	0.466	0.572
	LTE Band 7_ANT 2	20M	QPSK	50	0	Right Side	10mm	DSI17	21100	2535	20.11	21.00	1.227	0.19	0.000	0.000
	LTE Band 7_ANT 2	20M	QPSK	50	0	Top Side	10mm	DSI17	21100	2535	20.11	21.00	1.227	0.17	0.000	0.000
	LTE Band 7_ANT 3	20M	QPSK	1	0	Front	10mm	DSI17	21100	2535	20.55	21.50	1.245	0.1	0.339	0.422
	LTE Band 7_ANT 3	20M	QPSK	1	0	Back	10mm	DSI17	21100	2535	20.55	21.50	1.245	0.17	0.394	0.490
	LTE Band 7_ANT 3	20M	QPSK	1	0	Left Side	10mm	DSI17	21100	2535	20.55	21.50	1.245	0.12	0.171	0.213
	LTE Band 7_ANT 3	20M	QPSK	1	0	Right Side	10mm	DSI17	21100	2535	20.55	21.50	1.245	-0.17	0.077	0.096
	LTE Band 7_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	21100	2535	20.55	21.50	1.245	-0.16	0.465	0.579
	LTE Band 7_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	20850	2510	20.53	21.50	1.250	0.14	0.431	0.539
	LTE Band 7_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	21350	2560	20.52	21.50	1.253	-0.06	0.528	0.662
	LTE Band 7C_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	21350+21152	2560+2540.2	19.96	21.50	1.426	-0.02	0.452	0.644
	LTE Band 7_ANT 3	20M	QPSK	50	0	Front	10mm	DSI17	21100	2535	20.53	21.50	1.250	0.18	0.306	0.383
	LTE Band 7_ANT 3	20M	QPSK	50	0	Back	10mm	DSI17	21100	2535	20.53	21.50	1.250	-0.13	0.319	0.399
	LTE Band 7_ANT 3	20M	QPSK	50	0	Left Side	10mm	DSI17	21100	2535	20.53	21.50	1.250	0.04	0.167	0.209
	LTE Band 7_ANT 3	20M	QPSK	50	0	Right Side	10mm	DSI17	21100	2535	20.53	21.50	1.250	0.11	0.084	0.105
	LTE Band 7_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	21100	2535	20.53	21.50	1.250	0.03	0.460	0.575
	LTE Band 7_ANT 5	20M	QPSK	1	0	Front	10mm	DSI17	21100	2535	16.33	17.80	1.403	-0.05	0.161	0.226
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	10mm	DSI17	21100	2535	16.33	17.80	1.403	0.03	0.205	0.288
	LTE Band 7_ANT 5	20M	QPSK	1	0	Left Side	10mm	DSI17	21100	2535	16.33	17.80	1.403	-0.18	0.092	0.129
	LTE Band 7_ANT 5	20M	QPSK	1	0	Right Side	10mm	DSI17	21100	2535	16.33	17.80	1.403	-0.15	0.054	0.076
	LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	10mm	DSI17	21100	2535	16.33	17.80	1.403	-0.02	0.479	0.672
	LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	10mm	DSI17	20850	2510	16.32	17.80	1.406	0.05	0.368	0.517
	LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	10mm	DSI17	21350	2560	16.31	17.80	1.409	0.07	0.446	0.629
	LTE Band 7_ANT 5	20M	QPSK	50	0	Front	10mm	DSI17	21100	2535	16.31	17.80	1.409	0.15	0.142	0.200
	LTE Band 7_ANT 5	20M	QPSK	50	0	Back	10mm	DSI17	21100	2535	16.31	17.80	1.409	0.17	0.200	0.282
	LTE Band 7_ANT 5	20M	QPSK	50	0	Left Side	10mm	DSI17	21100	2535	16.31	17.80	1.409	-0.11	0.076	0.107
	LTE Band 7_ANT 5	20M	QPSK	50	0	Right Side	10mm	DSI17	21100	2535	16.31	17.80	1.409	-0.16	0.052	0.073
	LTE Band 7_ANT 5	20M	QPSK	50	0	Top Side	10mm	DSI17	21100	2535	16.31	17.80	1.409	-0.17	0.401	0.565
	LTE Band 7_ANT 1	20M	QPSK	1	0	Front	10mm	DSI17	21100	2535	22.85	23.80	1.245	0.02	0.243	0.302
	LTE Band 7_ANT 1	20M	QPSK	1	0	Back	10mm	DSI17	21100	2535	22.85	23.80	1.245	-0.17	0.252	0.314
	LTE Band 7_ANT 1	20M	QPSK	1	0	Left Side	10mm	DSI17	21100	2535	22.85	23.80	1.245	0.13	0.042	0.052
	LTE Band 7_ANT 1	20M	QPSK	1	0	Right Side	10mm	DSI17	21100	2535	22.85	23.80	1.245	-0.12	0.361	0.449
42	LTE Band 7_ANT 1	20M	QPSK	1	0	Bottom Side	10mm	DSI17	21100	2535	22.85	23.80	1.245	0.16	0.562	0.699
	LTE Band 7_ANT 1	20M	QPSK	1	0	Bottom Side	10mm	DSI17	20850	2510	22.81	23.80	1.256	0.08	0.476	0.598
	LTE Band 7_ANT 1	20M	QPSK	1	0	Bottom Side	10mm	DSI17	21350	2560	22.80	23.80	1.259	0.01	0.501	0.631
	LTE Band 7_ANT 1	20M	QPSK	50	0	Front	10mm	DSI17	21100	2535	22.10	22.80	1.175	0.16	0.203	0.239
	LTE Band 7_ANT 1	20M	QPSK	50	0	Back	10mm	DSI17	21100	2535	22.10	22.80	1.175	-0.14	0.176	0.207
	LTE Band 7_ANT 1	20M	QPSK	50	0	Left Side	10mm	DSI17	21100	2535	22.10	22.80	1.175	-0.04	0.033	0.039
	LTE Band 7_ANT 1	20M	QPSK	50	0	Right Side	10mm	DSI17	21100	2535	22.10	22.80	1.175	0	0.295	0.347
	LTE Band 7_ANT 1	20M	QPSK	50	0	Bottom Side	10mm	DSI17	21100	2535	22.10	22.80	1.175	-0.15	0.376	0.442



FCC SAR TEST REPORT

Report No. : FA101920

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_ANT 2	20M	QPSK	1	0	Front	10mm	DSI17	40185	2549.5	21.35	22.00	1.161	62.9	1.006	-0.07	0.145	0.169
	LTE Band 41_ANT 2	20M	QPSK	1	0	Back	10mm	DSI17	40185	2549.5	21.35	22.00	1.161	62.9	1.006	0.09	0.197	0.230
	LTE Band 41_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	40185	2549.5	21.35	22.00	1.161	62.9	1.006	-0.09	0.401	0.469
	LTE Band 41_ANT 2	20M	QPSK	1	0	Right Side	10mm	DSI17	40185	2549.5	21.35	22.00	1.161	62.9	1.006	0.17	0.008	0.009
	LTE Band 41_ANT 2	20M	QPSK	1	0	Top Side	10mm	DSI17	40185	2549.5	21.35	22.00	1.161	62.9	1.006	0.03	0.017	0.020
	LTE Band 41_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	39750	2506	21.16	22.00	1.213	62.9	1.006	0.17	0.337	0.411
	LTE Band 41_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	40620	2593	21.10	22.00	1.230	62.9	1.006	0.18	0.490	0.606
	LTE Band 41C_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	40620+40422	2593+2573.2	20.80	22.00	1.318	62.9	1.006	0.04	0.435	0.577
	LTE Band 41_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	41055	2636.5	21.17	22.00	1.211	62.9	1.006	0.19	0.491	0.598
	LTE Band 41_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	41490	2680	21.00	22.00	1.259	62.9	1.006	0.14	0.447	0.566
	LTE Band 41_ANT 2	20M	QPSK	50	0	Front	10mm	DSI17	40185	2549.5	21.19	22.00	1.205	62.9	1.006	0.06	0.141	0.171
	LTE Band 41_ANT 2	20M	QPSK	50	0	Back	10mm	DSI17	40185	2549.5	21.19	22.00	1.205	62.9	1.006	-0.18	0.192	0.233
	LTE Band 41_ANT 2	20M	QPSK	50	0	Left Side	10mm	DSI17	40185	2549.5	21.19	22.00	1.205	62.9	1.006	0.05	0.263	0.319
	LTE Band 41_ANT 2	20M	QPSK	50	0	Right Side	10mm	DSI17	40185	2549.5	21.19	22.00	1.205	62.9	1.006	0.03	0.007	0.008
	LTE Band 41_ANT 2	20M	QPSK	50	0	Top Side	10mm	DSI17	40185	2549.5	21.19	22.00	1.205	62.9	1.006	0.02	0.053	0.064
	LTE Band 41_ANT 2	20M	QPSK	100	0	Left Side	10mm	DSI17	40185	2549.5	21.19	22.00	1.205	62.9	1.006	-0.01	0.291	0.353
	LTE Band 41_ANT 3	20M	QPSK	1	0	Front	10mm	DSI17	40185	2549.5	22.75	23.80	1.274	62.9	1.006	-0.06	0.332	0.425
	LTE Band 41_ANT 3	20M	QPSK	1	0	Back	10mm	DSI17	40185	2549.5	22.75	23.80	1.274	62.9	1.006	0.15	0.364	0.466
	LTE Band 41_ANT 3	20M	QPSK	1	0	Left Side	10mm	DSI17	40185	2549.5	22.75	23.80	1.274	62.9	1.006	-0.13	0.162	0.208
	LTE Band 41_ANT 3	20M	QPSK	1	0	Right Side	10mm	DSI17	40185	2549.5	22.75	23.80	1.274	62.9	1.006	-0.15	0.092	0.118
	LTE Band 41_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	40185	2549.5	22.75	23.80	1.274	62.9	1.006	0.01	0.484	0.620
	LTE Band 41_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	39750	2506	22.46	23.80	1.361	62.9	1.006	-0.15	0.454	0.622
	LTE Band 41_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	40620	2593	22.66	23.80	1.300	62.9	1.006	-0.14	0.553	0.723
	LTE Band 41_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	41055	2636.5	22.72	23.80	1.282	62.9	1.006	-0.15	0.565	0.729
43	LTE Band 41_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	41490	2680	22.72	23.80	1.282	62.9	1.006	0.05	0.609	0.786
	LTE Band 41C_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	41490+41292	2680+2660.2	22.30	23.80	1.413	62.9	1.006	0.01	0.549	0.780
	LTE Band 41_ANT 3	20M	QPSK	50	0	Front	10mm	DSI17	40185	2549.5	22.73	23.80	1.279	62.9	1.006	-0.15	0.319	0.411
	LTE Band 41_ANT 3	20M	QPSK	50	0	Back	10mm	DSI17	40185	2549.5	22.73	23.80	1.279	62.9	1.006	-0.03	0.347	0.447
	LTE Band 41_ANT 3	20M	QPSK	50	0	Left Side	10mm	DSI17	40185	2549.5	22.73	23.80	1.279	62.9	1.006	0.06	0.169	0.218
	LTE Band 41_ANT 3	20M	QPSK	50	0	Right Side	10mm	DSI17	40185	2549.5	22.73	23.80	1.279	62.9	1.006	0.02	0.097	0.125
	LTE Band 41_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	40185	2549.5	22.73	23.80	1.279	62.9	1.006	-0.08	0.481	0.619
	LTE Band 41_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	39790	2510	22.43	23.80	1.371	62.9	1.006	0.02	0.423	0.583
	LTE Band 41_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	39750	2506	22.43	23.80	1.371	62.9	1.006	-0.09	0.422	0.582
	LTE Band 41_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	40620	2593	22.63	23.80	1.309	62.9	1.006	0.06	0.526	0.693
	LTE Band 41_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	41055	2636.5	22.71	23.80	1.285	62.9	1.006	-0.02	0.537	0.694
	LTE Band 41_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	41490	2680	22.70	23.80	1.288	62.9	1.006	0.08	0.578	0.749
	LTE Band 41_ANT 3	20M	QPSK	100	0	Bottom Side	10mm	DSI17	40185	2549.5	22.70	23.80	1.288	62.9	1.006	-0.07	0.503	0.652
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Front	10mm	DSI17	40185	2549.5	22.87	23.60	1.183	42.9	1.009	-0.07	0.127	0.152
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Back	10mm	DSI17	40185	2549.5	22.87	23.60	1.183	42.9	1.009	-0.19	0.196	0.234
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	40185	2549.5	22.87	23.60	1.183	42.9	1.009	-0.12	0.394	0.470
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Right Side	10mm	DSI17	40185	2549.5	22.87	23.60	1.183	42.9	1.009	0.07	0.010	0.012
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Top Side	10mm	DSI17	40185	2549.5	22.87	23.60	1.183	42.9	1.009	0.12	0.022	0.026
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	39750	2506	22.73	23.60	1.222	42.9	1.009	0.05	0.320	0.394
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	40620	2593	22.76	23.60	1.213	42.9	1.009	0.01	0.471	0.577
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	41055	2636.5	22.60	23.60	1.259	42.9	1.009	0.03	0.490	0.622
	LTE Band 41C(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	41055+40857	2636.5+2616.7	22.56	23.60	1.271	42.9	1.009	0	0.386	0.495
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	10mm	DSI17	41490	2680	22.65	23.60	1.245	42.9	1.009	0.02	0.441	0.554
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Front	10mm	DSI17	40185	2549.5	22.84	23.60	1.191	42.9	1.009	-0.01	0.118	0.142
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Back	10mm	DSI17	40185	2549.5	22.84	23.60	1.191	42.9	1.009	-0.07	0.172	0.207
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	10mm	DSI17	40185	2549.5	22.84	23.60	1.191	42.9	1.009	0.15	0.308	0.370
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Right Side	10mm	DSI17	40185	2549.5	22.84	23.60	1.191	42.9	1.009	-0.16	0.009	0.011
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Top Side	10mm	DSI17	40185	2549.5	22.84	23.60	1.191	42.9	1.009	-0.04	0.020	0.024



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 41(HPUE)_ANT 2	20M	QPSK	100	0	Left Side	10mm	DSI17	40185	2549.5	22.80	23.60	1.202	42.9	1.009	0.01	0.328	0.398
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Front	10mm	DSI17	40185	2549.5	24.58	25.40	1.208	42.9	1.009	-0.17	0.372	0.453
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Back	10mm	DSI17	40185	2549.5	24.58	25.40	1.208	42.9	1.009	0.05	0.413	0.503
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Left Side	10mm	DSI17	40185	2549.5	24.58	25.40	1.208	42.9	1.009	-0.13	0.165	0.201
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Right Side	10mm	DSI17	40185	2549.5	24.58	25.40	1.208	42.9	1.009	-0.19	0.083	0.101
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	40185	2549.5	24.58	25.40	1.208	42.9	1.009	0.05	0.552	0.673
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	39750	2506	24.26	25.40	1.300	42.9	1.009	0.11	0.491	0.644
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	40620	2593	24.57	25.40	1.211	42.9	1.009	-0.02	0.567	0.693
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	41055	2636.5	24.51	25.40	1.227	42.9	1.009	0.15	0.573	0.710
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	41490	2680	24.56	25.40	1.213	42.9	1.009	0.12	0.595	0.728
	LTE Band 41C(HPUE)_ANT 3	20M	QPSK	1	0	Bottom Side	10mm	DSI17	41490+41292	2680+2660.2	24.06	25.40	1.361	42.9	1.009	0.13	0.527	0.724
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Front	10mm	DSI17	40185	2549.5	24.56	25.40	1.213	42.9	1.009	-0.1	0.312	0.382
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Back	10mm	DSI17	40185	2549.5	24.56	25.40	1.213	42.9	1.009	0.13	0.367	0.449
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Left Side	10mm	DSI17	40185	2549.5	24.56	25.40	1.213	42.9	1.009	-0.12	0.168	0.206
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Right Side	10mm	DSI17	40185	2549.5	24.56	25.40	1.213	42.9	1.009	0.08	0.089	0.109
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	40185	2549.5	24.56	25.40	1.213	42.9	1.009	0.19	0.547	0.670
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	39750	2506	24.20	25.40	1.318	42.9	1.009	-0.19	0.484	0.644
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	40620	2593	24.50	25.40	1.230	42.9	1.009	-0.02	0.582	0.722
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	41055	2636.5	24.51	25.40	1.227	42.9	1.009	0.15	0.585	0.725
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Bottom Side	10mm	DSI17	41490	2680	24.55	25.40	1.216	42.9	1.009	0.03	0.592	0.726
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	100	0	Bottom Side	10mm	DSI17	40185	2549.5	24.36	25.40	1.271	42.9	1.009	0.01	0.512	0.656
	LTE Band 48_ANT 5	20M	QPSK	1	0	Front	10mm	DSI17	55830	3609	21.48	22.00	1.127	62.9	1.006	0.01	0.222	0.252
	LTE Band 48_ANT 5	20M	QPSK	1	0	Back	10mm	DSI17	55830	3609	21.48	22.00	1.127	62.9	1.006	0.03	0.356	0.404
	LTE Band 48_ANT 5	20M	QPSK	1	0	Left Side	10mm	DSI17	55830	3609	21.48	22.00	1.127	62.9	1.006	0.12	0.094	0.107
	LTE Band 48_ANT 5	20M	QPSK	1	0	Right Side	10mm	DSI17	55830	3609	21.48	22.00	1.127	62.9	1.006	-0.04	0.038	0.043
	LTE Band 48_ANT 5	20M	QPSK	1	0	Top Side	10mm	DSI17	55830	3609	21.48	22.00	1.127	62.9	1.006	0.19	0.409	0.464
	LTE Band 48_ANT 5	20M	QPSK	50	0	Front	10mm	DSI17	55830	3609	21.47	22.00	1.130	62.9	1.006	-0.14	0.252	0.286
	LTE Band 48_ANT 5	20M	QPSK	50	0	Back	10mm	DSI17	55830	3609	21.47	22.00	1.130	62.9	1.006	-0.18	0.360	0.409
	LTE Band 48_ANT 5	20M	QPSK	50	0	Left Side	10mm	DSI17	55830	3609	21.47	22.00	1.130	62.9	1.006	0.01	0.101	0.115
	LTE Band 48_ANT 5	20M	QPSK	50	0	Right Side	10mm	DSI17	55830	3609	21.47	22.00	1.130	62.9	1.006	0.17	0.039	0.044
	LTE Band 48_ANT 5	20M	QPSK	50	0	Top Side	10mm	DSI17	55830	3609	21.47	22.00	1.130	62.9	1.006	0.04	0.421	0.478
	LTE Band 48_ANT 5	20M	QPSK	50	0	Top Side	10mm	DSI17	55340	3560	21.43	22.00	1.140	62.9	1.006	0.08	0.591	0.678
	LTE Band 48C_ANT 5	20M	QPSK	50	0	Top Side	10mm	DSI17	55340+55538	3560+3579.8	20.57	22.00	1.390	62.9	1.006	0.15	0.414	0.579
	LTE Band 48_ANT 5	20M	QPSK	50	0	Top Side	10mm	DSI17	56150	3641	21.46	22.00	1.132	62.9	1.006	-0.13	0.319	0.363
	LTE Band 48_ANT 5	20M	QPSK	50	0	Top Side	10mm	DSI17	56640	3690	21.39	22.00	1.151	62.9	1.006	-0.02	0.312	0.361
	LTE Band 48_ANT 5	20M	QPSK	100	0	Top Side	10mm	DSI17	55830	3609	21.46	22.00	1.132	62.9	1.006	0.05	0.501	0.571
	LTE Band 48_ANT 10	20M	QPSK	1	0	Front	10mm	DSI17	55830	3609	16.49	17.30	1.205	62.9	1.006	0.19	0.035	0.042
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	10mm	DSI17	55830	3609	16.49	17.30	1.205	62.9	1.006	0.11	0.264	0.320
	LTE Band 48_ANT 10	20M	QPSK	1	0	Left Side	10mm	DSI17	55830	3609	16.49	17.30	1.205	62.9	1.006	0.12	0.073	0.088
	LTE Band 48_ANT 10	20M	QPSK	1	0	Right Side	10mm	DSI17	55830	3609	16.49	17.30	1.205	62.9	1.006	0.19	0.006	0.007
	LTE Band 48_ANT 10	20M	QPSK	1	0	Top Side	10mm	DSI17	55830	3609	16.49	17.30	1.205	62.9	1.006	0.12	0.001	0.001
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	10mm	DSI17	55340	3560	16.46	17.30	1.213	62.9	1.006	0.11	0.138	0.168
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	10mm	DSI17	56150	3641	16.39	17.30	1.233	62.9	1.006	0.14	0.357	0.443
44	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	10mm	DSI17	56640	3690	16.42	17.30	1.225	62.9	1.006	-0.04	0.566	0.697
	LTE Band 48C_ANT 10	20M	QPSK	1	0	Back	10mm	DSI17	56640+56442	3690+3670.2	15.81	17.30	1.409	62.9	1.006	0.07	0.475	0.673
	LTE Band 48_ANT 10	20M	QPSK	50	0	Front	10mm	DSI17	55830	3609	16.41	17.30	1.227	62.9	1.006	-0.06	0.037	0.046
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	10mm	DSI17	55830	3609	16.41	17.30	1.227	62.9	1.006	-0.06	0.251	0.310
	LTE Band 48_ANT 10	20M	QPSK	50	0	Left Side	10mm	DSI17	55830	3609	16.41	17.30	1.227	62.9	1.006	-0.05	0.075	0.093
	LTE Band 48_ANT 10	20M	QPSK	50	0	Right Side	10mm	DSI17	55830	3609	16.41	17.30	1.227	62.9	1.006	-0.18	0.008	0.010
	LTE Band 48_ANT 10	20M	QPSK	50	0	Top Side	10mm	DSI17	55830	3609	16.41	17.30	1.227	62.9	1.006	0.07	0.001	0.001
	LTE Band 48_ANT 10	20M	QPSK	100	0	Back	10mm	DSI17	55830	3609	16.40	17.30	1.230	62.9	1.006	0.05	0.242	0.300



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
45	N71_Ant 0	20M	QPSK	1	1	DFT-15	Front	10mm	DS17	136100	680.5	22.52	23.40	1.225	-0.13	0.263	0.322
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Back	10mm	DS17	136100	680.5	22.52	23.40	1.225	0.06	0.375	0.459
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS17	136100	680.5	22.52	23.40	1.225	0.07	0.566	0.693
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Right Side	10mm	DS17	136100	680.5	22.52	23.40	1.225	-0.17	0.049	0.060
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS17	136100	680.5	22.52	23.40	1.225	0.03	0.009	0.011
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Front	10mm	DS17	136100	680.5	22.50	23.40	1.230	-0.12	0.244	0.300
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Back	10mm	DS17	136100	680.5	22.50	23.40	1.230	0.07	0.365	0.449
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Left Side	10mm	DS17	136100	680.5	22.50	23.40	1.230	-0.19	0.534	0.657
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Right Side	10mm	DS17	136100	680.5	22.50	23.40	1.230	0	0.051	0.063
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	DS17	136100	680.5	22.50	23.40	1.230	0.08	0.008	0.010
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Front	10mm	DS17	136100	680.5	24.38	25.20	1.208	0.17	0.158	0.191
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Back	10mm	DS17	136100	680.5	24.38	25.20	1.208	-0.11	0.163	0.197
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS17	136100	680.5	24.38	25.20	1.208	-0.15	0.101	0.122
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Right Side	10mm	DS17	136100	680.5	24.38	25.20	1.208	-0.18	0.400	0.483
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Top Side	10mm	DS17	136100	680.5	24.38	25.20	1.208	0.05	0.008	0.010
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Front	10mm	DS17	136100	680.5	24.31	25.20	1.227	-0.06	0.152	0.187
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Back	10mm	DS17	136100	680.5	24.31	25.20	1.227	-0.08	0.178	0.218
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Left Side	10mm	DS17	136100	680.5	24.31	25.20	1.227	-0.07	0.100	0.123
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Right Side	10mm	DS17	136100	680.5	24.31	25.20	1.227	-0.15	0.382	0.469
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Top Side	10mm	DS17	136100	680.5	24.31	25.20	1.227	0.02	0.011	0.014
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Front	10mm	DS17	167300	836.5	22.35	23.20	1.216	0.14	0.259	0.315
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Back	10mm	DS17	167300	836.5	22.35	23.20	1.216	-0.07	0.374	0.455
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS17	167300	836.5	22.35	23.20	1.216	-0.06	0.598	0.727
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Right Side	10mm	DS17	167300	836.5	22.35	23.20	1.216	0.05	0.011	0.013
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS17	167300	836.5	22.35	23.20	1.216	0.06	0.013	0.016
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Front	10mm	DS17	167300	836.5	22.23	23.20	1.250	0.15	0.245	0.306
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Back	10mm	DS17	167300	836.5	22.23	23.20	1.250	0.02	0.349	0.436
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Left Side	10mm	DS17	167300	836.5	22.23	23.20	1.250	0.15	0.516	0.645
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Right Side	10mm	DS17	167300	836.5	22.23	23.20	1.250	0.12	0.009	0.011
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	DS17	167300	836.5	22.23	23.20	1.250	0.01	0.012	0.015
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Front	10mm	DS17	167300	836.5	23.78	24.70	1.236	-0.07	0.152	0.188
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Back	10mm	DS17	167300	836.5	23.78	24.70	1.236	-0.16	0.222	0.274
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS17	167300	836.5	23.78	24.70	1.236	0.19	0.064	0.079
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Right Side	10mm	DS17	167300	836.5	23.78	24.70	1.236	0	0.204	0.252
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Top Side	10mm	DS17	167300	836.5	23.78	24.70	1.236	0.07	0.009	0.011
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Front	10mm	DS17	167300	836.5	23.69	24.70	1.262	-0.19	0.157	0.198
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Back	10mm	DS17	167300	836.5	23.69	24.70	1.262	-0.1	0.187	0.236
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Left Side	10mm	DS17	167300	836.5	23.69	24.70	1.262	-0.17	0.054	0.068
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Right Side	10mm	DS17	167300	836.5	23.69	24.70	1.262	0.18	0.182	0.230
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Top Side	10mm	DS17	167300	836.5	23.69	24.70	1.262	0.03	0.006	0.008
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Front	10mm	DS17	349000	1745	20.85	21.70	1.216	0.1	0.317	0.386
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Back	10mm	DS17	349000	1745	20.85	21.70	1.216	0.17	0.400	0.486
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Left Side	10mm	DS17	349000	1745	20.85	21.70	1.216	-0.13	0.222	0.270
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Right Side	10mm	DS17	349000	1745	20.85	21.70	1.216	-0.06	0.144	0.175
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS17	349000	1745	20.85	21.70	1.216	0.16	0.606	0.737
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Front	10mm	DS17	349000	1745	20.84	21.70	1.219	0.04	0.333	0.406
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Back	10mm	DS17	349000	1745	20.84	21.70	1.219	-0.05	0.392	0.478
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Left Side	10mm	DS17	349000	1745	20.84	21.70	1.219	0.13	0.212	0.258
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Right Side	10mm	DS17	349000	1745	20.84	21.70	1.219	0.19	0.140	0.171
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Bottom Side	10mm	DS17	349000	1745	20.84	21.70	1.219	-0.12	0.598	0.729
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Front	10mm	DS17	349000	1745	22.27	23.20	1.239	-0.14	0.177	0.219
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Back	10mm	DS17	349000	1745	22.27	23.20	1.239	0.04	0.291	0.360
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Left Side	10mm	DS17	349000	1745	22.27	23.20	1.239	-0.1	0.547	0.678



FCC SAR TEST REPORT

Report No. : FA101920

	N66_Ant 2	40M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	349000	1745	22.27	23.20	1.239	0.12	0.038	0.047
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Top Side	10mm	DS117	349000	1745	22.27	23.20	1.239	-0.17	0.040	0.050
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Front	10mm	DS117	349000	1745	22.21	23.20	1.256	0.08	0.200	0.251
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Back	10mm	DS117	349000	1745	22.21	23.20	1.256	-0.14	0.302	0.379
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Left Side	10mm	DS117	349000	1745	22.21	23.20	1.256	0.13	0.536	0.673
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Right Side	10mm	DS117	349000	1745	22.21	23.20	1.256	0.02	0.044	0.055
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Top Side	10mm	DS117	349000	1745	22.21	23.20	1.256	0.1	0.053	0.067
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Front	10mm	DS117	349000	1745	17.63	18.70	1.279	0.14	0.241	0.308
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Back	10mm	DS117	349000	1745	17.63	18.70	1.279	0.02	0.385	0.493
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	349000	1745	17.63	18.70	1.279	0.12	0.047	0.060
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	349000	1745	17.63	18.70	1.279	0.12	0.032	0.041
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Top Side	10mm	DS117	349000	1745	17.63	18.70	1.279	0.04	0.538	0.688
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Front	10mm	DS117	349000	1745	17.59	18.70	1.291	-0.05	0.273	0.353
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Back	10mm	DS117	349000	1745	17.59	18.70	1.291	0.04	0.406	0.524
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Left Side	10mm	DS117	349000	1745	17.59	18.70	1.291	0.15	0.062	0.080
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Right Side	10mm	DS117	349000	1745	17.59	18.70	1.291	-0.16	0.043	0.056
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Top Side	10mm	DS117	349000	1745	17.59	18.70	1.291	-0.13	0.526	0.679
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Front	10mm	DS117	349000	1745	21.21	22.20	1.256	-0.01	0.228	0.286
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Back	10mm	DS117	349000	1745	21.21	22.20	1.256	0.11	0.262	0.329
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	349000	1745	21.21	22.20	1.256	-0.01	0.013	0.016
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	349000	1745	21.21	22.20	1.256	0.16	0.527	0.662
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS117	349000	1745	21.21	22.20	1.256	-0.04	0.072	0.090
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Front	10mm	DS117	349000	1745	21.08	22.20	1.294	0.16	0.251	0.325
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Back	10mm	DS117	349000	1745	21.08	22.20	1.294	0.18	0.288	0.373
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Left Side	10mm	DS117	349000	1745	21.08	22.20	1.294	0.07	0.015	0.019
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Right Side	10mm	DS117	349000	1745	21.08	22.20	1.294	-0.06	0.489	0.633
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Bottom Side	10mm	DS117	349000	1745	21.08	22.20	1.294	-0.1	0.079	0.102
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Front	10mm	DS117	376500	1882.5	21.12	22.20	1.282	0.05	0.383	0.491
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Back	10mm	DS117	376500	1882.5	21.12	22.20	1.282	0.14	0.461	0.591
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	376500	1882.5	21.12	22.20	1.282	0.09	0.235	0.301
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	376500	1882.5	21.12	22.20	1.282	0.07	0.091	0.117
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS117	376500	1882.5	21.12	22.20	1.282	-0.13	0.573	0.735
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Front	10mm	DS117	376500	1882.5	21.11	22.20	1.285	0	0.347	0.446
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Back	10mm	DS117	376500	1882.5	21.11	22.20	1.285	-0.1	0.428	0.550
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Left Side	10mm	DS117	376500	1882.5	21.11	22.20	1.285	0.08	0.237	0.305
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Right Side	10mm	DS117	376500	1882.5	21.11	22.20	1.285	0.09	0.085	0.109
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Bottom Side	10mm	DS117	376500	1882.5	21.11	22.20	1.285	-0.1	0.575	0.739
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Front	10mm	DS117	376500	1882.5	21.69	22.70	1.262	-0.07	0.222	0.280
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Back	10mm	DS117	376500	1882.5	21.69	22.70	1.262	0.09	0.399	0.503
48	N25_Ant 2	40M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	376500	1882.5	21.69	22.70	1.262	-0.1	0.622	0.785
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	376500	1882.5	21.69	22.70	1.262	0.06	0.009	0.011
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Top Side	10mm	DS117	376500	1882.5	21.69	22.70	1.262	0.19	0.047	0.059
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Front	10mm	DS117	376500	1882.5	21.63	22.70	1.279	0	0.239	0.306
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Back	10mm	DS117	376500	1882.5	21.63	22.70	1.279	-0.11	0.416	0.532
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Left Side	10mm	DS117	376500	1882.5	21.63	22.70	1.279	-0.05	0.596	0.763
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Right Side	10mm	DS117	376500	1882.5	21.63	22.70	1.279	0.07	0.012	0.015
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Top Side	10mm	DS117	376500	1882.5	21.63	22.70	1.279	-0.08	0.059	0.075
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Front	10mm	DS117	462000	2310	21.17	22.20	1.268	0.17	0.323	0.409
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Back	10mm	DS117	462000	2310	21.17	22.20	1.268	0.09	0.308	0.390
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	462000	2310	21.17	22.20	1.268	0.12	0.173	0.219
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	462000	2310	21.17	22.20	1.268	-0.06	0.051	0.065
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS117	462000	2310	21.17	22.20	1.268	0.17	0.568	0.720
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Front	10mm	DS117	462000	2310	21.16	22.20	1.271	-0.14	0.334	0.424
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Back	10mm	DS117	462000	2310	21.16	22.20	1.271	-0.07	0.283	0.360
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Left Side	10mm	DS117	462000	2310	21.16	22.20	1.271	-0.19	0.179	0.227
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Right Side	10mm	DS117	462000	2310	21.16	22.20	1.271	-0.13	0.052	0.066



FCC SAR TEST REPORT

Report No. : FA101920

	N30_Ant 3	10M	QPSK	25	14	DFT-15	Bottom Side	10mm	DS117	462000	2310	21.16	22.20	1.271	0.17	0.520	0.661
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Front	10mm	DS117	462000	2310	23.56	24.70	1.300	0.07	0.233	0.303
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Back	10mm	DS117	462000	2310	23.56	24.70	1.300	0.11	0.375	0.488
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	462000	2310	23.56	24.70	1.300	0.1	0.562	0.731
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	462000	2310	23.56	24.70	1.300	0.03	0.041	0.053
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Top Side	10mm	DS117	462000	2310	23.56	24.70	1.300	0.09	0.088	0.114
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Front	10mm	DS117	462000	2310	23.54	24.70	1.306	0.04	0.241	0.315
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Back	10mm	DS117	462000	2310	23.54	24.70	1.306	-0.12	0.383	0.500
49	N30_Ant 2	10M	QPSK	25	14	DFT-15	Left Side	10mm	DS117	462000	2310	23.54	24.70	1.306	0.09	0.604	0.789
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Right Side	10mm	DS117	462000	2310	23.54	24.70	1.306	-0.12	0.062	0.081
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Top Side	10mm	DS117	462000	2310	23.54	24.70	1.306	0.04	0.091	0.119
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Front	10mm	DS117	507000	2535	20.03	21.20	1.309	0.08	0.350	0.458
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Back	10mm	DS117	507000	2535	20.03	21.20	1.309	0.14	0.341	0.446
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	507000	2535	20.03	21.20	1.309	-0.11	0.172	0.225
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	507000	2535	20.03	21.20	1.309	-0.13	0.067	0.088
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS117	507000	2535	20.03	21.20	1.309	0	0.586	0.767
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS117	502000	2510	20.01	21.20	1.315	0.03	0.407	0.535
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	DS117	512000	2560	19.97	21.20	1.327	0.07	0.427	0.567
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Front	10mm	DS117	507000	2535	19.96	21.20	1.330	-0.1	0.339	0.451
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Back	10mm	DS117	507000	2535	19.96	21.20	1.330	0.15	0.353	0.470
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Left Side	10mm	DS117	507000	2535	19.96	21.20	1.330	0.11	0.173	0.230
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Right Side	10mm	DS117	507000	2535	19.96	21.20	1.330	0.14	0.067	0.089
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	DS117	507000	2535	19.96	21.20	1.330	-0.18	0.456	0.607
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Front	10mm	DS117	507000	2535	19.61	20.70	1.285	0.08	0.161	0.207
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Back	10mm	DS117	507000	2535	19.61	20.70	1.285	-0.1	0.327	0.420
50	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	507000	2535	19.61	20.70	1.285	0.02	0.616	0.792
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Right Side	10mm	DS117	507000	2535	19.61	20.70	1.285	0.05	0.007	0.009
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Top Side	10mm	DS117	507000	2535	19.61	20.70	1.285	-0.04	0.041	0.053
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	502000	2510	19.52	20.70	1.312	0.06	0.552	0.724
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	10mm	DS117	512000	2560	19.51	20.70	1.315	-0.15	0.566	0.744
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Front	10mm	DS117	507000	2535	19.52	20.70	1.312	0.17	0.168	0.220
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Back	10mm	DS117	507000	2535	19.52	20.70	1.312	-0.1	0.327	0.429
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Left Side	10mm	DS117	507000	2535	19.52	20.70	1.312	-0.18	0.550	0.722
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Right Side	10mm	DS117	507000	2535	19.52	20.70	1.312	0.01	0.008	0.010
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Top Side	10mm	DS117	507000	2535	19.52	20.70	1.312	0.07	0.031	0.041
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	16.86	18.20	1.361	0.09	0.178	0.242
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.01	0.165	0.225
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	0.16	0.079	0.108
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.18	0.030	0.041
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.07	0.295	0.402
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.18	0.156	0.214
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.06	0.173	0.238
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	-0.19	0.080	0.110
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.05	0.028	0.038
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	-0.04	0.271	0.372
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	19.72	20.70	1.253	-0.18	0.204	0.256
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	19.72	20.70	1.253	0.13	0.364	0.456
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	19.72	20.70	1.253	0.17	0.606	0.759
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	19.72	20.70	1.253	0.17	0.003	0.004
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	518598	2592.99	19.72	20.70	1.253	-0.08	0.027	0.034
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	19.60	20.70	1.288	0.13	0.191	0.246
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	19.60	20.70	1.288	0.16	0.387	0.499
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	19.60	20.70	1.288	0.15	0.595	0.767
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	19.60	20.70	1.288	-0.08	0.002	0.003
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	518598	2592.99	19.60	20.70	1.288	-0.05	0.046	0.059
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	13.57	14.20	13.57	-0.06	0.072	0.083



FCC SAR TEST REPORT

Report No. : FA101920

	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	13.57	14.20	13.57	-0.02	0.085	0.098
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	13.57	14.20	13.57	0.13	0.021	0.024
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	13.57	14.20	13.57	0.1	0.017	0.020
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	518598	2592.99	13.57	14.20	13.57	0.17	0.238	0.275
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.02	0.053	0.062
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.17	0.067	0.079
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	-0.06	0.021	0.025
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.11	0.015	0.018
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.18	0.213	0.250
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	16.86	18.20	1.361	0.09	0.178	0.242
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.01	0.165	0.225
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	0.16	0.079	0.108
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.18	0.030	0.041
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.07	0.295	0.402
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.18	0.156	0.214
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.06	0.173	0.238
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	-0.19	0.080	0.110
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.05	0.028	0.038
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	-0.04	0.271	0.372
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	19.72	20.70	1.253	-0.18	0.204	0.256
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	19.72	20.70	1.253	0.13	0.364	0.456
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	19.72	20.70	1.253	0.17	0.606	0.759
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	19.72	20.70	1.253	0.17	0.003	0.004
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	518598	2592.99	19.72	20.70	1.253	-0.08	0.027	0.034
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	19.60	20.70	1.288	0.13	0.191	0.246
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	19.60	20.70	1.288	0.16	0.387	0.499
51	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	19.60	20.70	1.288	0.15	0.595	0.767
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	19.60	20.70	1.288	-0.08	0.002	0.003
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	518598	2592.99	19.60	20.70	1.288	-0.05	0.046	0.059
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	13.57	14.20	13.57	-0.06	0.072	0.083
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	13.57	14.20	13.57	-0.02	0.085	0.098
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	13.57	14.20	13.57	0.13	0.021	0.024
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	13.57	14.20	13.57	0.1	0.017	0.020
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	518598	2592.99	13.57	14.20	13.57	0.17	0.238	0.275
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.02	0.053	0.062
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.17	0.067	0.079
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	-0.06	0.021	0.025
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.11	0.015	0.018
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.18	0.213	0.250
	N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	22.13	23.20	1.279	-0.08	0.187	0.239
	N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	22.13	23.20	1.279	-0.08	0.142	0.182
	N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	22.13	23.20	1.279	0.13	0.022	0.028
	N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	22.13	23.20	1.279	-0.17	0.300	0.384
	N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	22.13	23.20	1.279	0.11	0.538	0.688
	N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	21.98	23.20	1.324	0.1	0.186	0.246
	N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	21.98	23.20	1.324	0.09	0.179	0.237
	N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	21.98	23.20	1.324	0.19	0.031	0.041
	N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	21.98	23.20	1.324	0	0.320	0.424
	N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	21.98	23.20	1.324	0.05	0.463	0.613
	N41(PC2)_Ant 1	100M	QPSK	270	0	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	21.90	23.20	1.349	0.07	0.421	0.568
	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	16.86	18.20	1.361	0.09	0.178	0.242
	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.01	0.165	0.225
	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	0.16	0.079	0.108
	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.18	0.030	0.041
	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	16.86	18.20	1.361	-0.07	0.295	0.402
	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.18	0.156	0.214



FCC SAR TEST REPORT

Report No. : FA101920

	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.06	0.173	0.238
	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	-0.19	0.080	0.110
	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	0.05	0.028	0.038
	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	DS117	518598	2592.99	16.82	18.20	1.374	-0.04	0.271	0.372
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	518598	2592.99	13.57	14.20	1.156	-0.06	0.072	0.083
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	518598	2592.99	13.57	14.20	1.156	-0.02	0.085	0.098
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	518598	2592.99	13.57	14.20	1.156	0.13	0.021	0.024
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	518598	2592.99	13.57	14.20	1.156	0.1	0.017	0.020
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	518598	2592.99	13.57	14.20	1.156	0.17	0.238	0.275
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.02	0.053	0.062
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.17	0.067	0.079
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	-0.06	0.021	0.025
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.11	0.015	0.018
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	518598	2592.99	13.51	14.20	1.172	0.18	0.213	0.250
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	633334	3500.01	18.79	19.70	1.233	-0.12	0.243	0.300
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	633334	3500.01	18.79	19.70	1.233	-0.03	0.370	0.456
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	633334	3500.01	18.79	19.70	1.233	-0.02	0.135	0.166
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	633334	3500.01	18.79	19.70	1.233	-0.07	0.062	0.076
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	633334	3500.01	18.79	19.70	1.233	-0.04	0.502	0.619
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	633334	3500.01	18.77	19.70	1.239	0.11	0.308	0.382
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	633334	3500.01	18.77	19.70	1.239	0.18	0.456	0.565
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	633334	3500.01	18.77	19.70	1.239	-0.03	0.133	0.165
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	633334	3500.01	18.77	19.70	1.239	-0.02	0.046	0.057
53	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	633334	3500.01	18.77	19.70	1.239	0.17	0.638	0.790
	N77_Ant 5	100M	QPSK	270	0	DFT-30	Top Side	10mm	DS117	633334	3500.01	18.67	19.70	1.268	0.04	0.424	0.537
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	656000	3840	18.59	19.70	1.291	-0.16	0.250	0.323
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	656000	3840	18.59	19.70	1.291	0.03	0.582	0.751
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	656000	3840	18.59	19.70	1.291	0.11	0.100	0.129
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	656000	3840	18.59	19.70	1.291	0.04	0.026	0.034
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	656000	3840	18.59	19.70	1.291	0.13	0.398	0.514
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	656000	3840	18.58	19.70	1.294	-0.16	0.259	0.335
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	656000	3840	18.58	19.70	1.294	0.02	0.453	0.586
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	656000	3840	18.58	19.70	1.294	0.11	0.081	0.105
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	656000	3840	18.58	19.70	1.294	0.04	0.026	0.034
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	656000	3840	18.58	19.70	1.294	0.13	0.309	0.400
	N77_Ant 5	100M	QPSK	270	0	DFT-30	Back	10mm	DS117	656000	3840	18.57	19.70	1.297	-0.16	0.410	0.532
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	633334	3500.01	15.72	16.70	1.253	-0.06	0.023	0.029
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	633334	3500.01	15.72	16.70	1.253	-0.12	0.200	0.251
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	633334	3500.01	15.72	16.70	1.253	0.14	0.092	0.115
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	633334	3500.01	15.72	16.70	1.253	-0.15	0.005	0.006
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	633334	3500.01	15.72	16.70	1.253	-0.04	0.027	0.034
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	633334	3500.01	15.70	16.70	1.259	-0.06	0.025	0.031
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	633334	3500.01	15.70	16.70	1.259	-0.12	0.224	0.282
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	633334	3500.01	15.70	16.70	1.259	0.14	0.081	0.102
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	633334	3500.01	15.70	16.70	1.259	-0.15	0.001	0.001
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	633334	3500.01	15.70	16.70	1.259	-0.04	0.012	0.015
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Front	10mm	DS117	656000	3840	15.64	16.70	1.276	-0.07	0.008	0.010
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Back	10mm	DS117	656000	3840	15.64	16.70	1.276	0.05	0.574	0.733
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Left Side	10mm	DS117	656000	3840	15.64	16.70	1.276	0.05	0.098	0.125
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Right Side	10mm	DS117	656000	3840	15.64	16.70	1.276	0.07	0.006	0.008
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Top Side	10mm	DS117	656000	3840	15.64	16.70	1.276	-0.03	0.031	0.040
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Front	10mm	DS117	656000	3840	15.62	16.70	1.282	-0.07	0.007	0.009
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	10mm	DS117	656000	3840	15.62	16.70	1.282	0.05	0.240	0.308
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Left Side	10mm	DS117	656000	3840	15.62	16.70	1.282	0.05	0.082	0.105
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Right Side	10mm	DS117	656000	3840	15.62	16.70	1.282	-0.13	0.004	0.005
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Top Side	10mm	DS117	656000	3840	15.62	16.70	1.282	-0.03	0.030	0.038



FCC SAR TEST REPORT

Report No. : FA101920

	N77(PC2)_Ant 10	100M	QPSK	270	1	DFT-30	Back	10mm	DSI17	656000	3840	15.62	16.70	1.282	0.04	0.322	0.413
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<5G NR SRS SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Duty Cycle %	Pmax	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Front	10mm	DSI17	633334	3500.01	15.38	14	20.2	-0.19	0.050	0.021
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Back	10mm	DSI17	633334	3500.01	15.38	14	20.2	-0.05	0.150	0.064
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Left Side	10mm	DSI17	633334	3500.01	15.38	14	20.2	0.02	0.011	0.005
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Right Side	10mm	DSI17	633334	3500.01	15.38	14	20.2	-0.02	0.082	0.035
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Top Side	10mm	DSI17	633334	3500.01	15.38	14	20.2	0.19	0.030	0.013
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Front	10mm	DSI17	633334	3500.01	15.35	14	20.2	-0.11	0.045	0.019
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Back	10mm	DSI17	633334	3500.01	15.35	14	20.2	0.16	0.165	0.071
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Left Side	10mm	DSI17	633334	3500.01	15.35	14	20.2	-0.13	0.008	0.003
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Right Side	10mm	DSI17	633334	3500.01	15.35	14	20.2	-0.06	0.072	0.031
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Top Side	10mm	DSI17	633334	3500.01	15.35	14	20.2	0.05	0.021	0.009
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Front	10mm	DSI17	656000	3840	15.30	14	20.2	-0.16	0.117	0.051
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Back	10mm	DSI17	656000	3840	15.30	14	20.2	0.17	0.251	0.109
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Left Side	10mm	DSI17	656000	3840	15.30	14	20.2	0.09	0.004	0.002
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Right Side	10mm	DSI17	656000	3840	15.30	14	20.2	0.04	0.246	0.106
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Top Side	10mm	DSI17	656000	3840	15.30	14	20.2	-0.03	0.041	0.018
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Front	10mm	DSI17	656000	3840	15.27	14	20.2	-0.12	0.103	0.045
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Back	10mm	DSI17	656000	3840	15.27	14	20.2	0.12	0.219	0.095
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Left Side	10mm	DSI17	656000	3840	15.27	14	20.2	0.1	0.032	0.014
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Right Side	10mm	DSI17	656000	3840	15.27	14	20.2	-0.16	0.223	0.097
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Top Side	10mm	DSI17	656000	3840	15.27	14	20.2	0.03	0.037	0.016
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Front	10mm	DSI17	633334	3500.01	19.21	14	22.7	-0.05	0.181	0.057
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Back	10mm	DSI17	633334	3500.01	19.21	14	22.7	0.17	0.262	0.082
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Left Side	10mm	DSI17	633334	3500.01	19.21	14	22.7	0.18	0.019	0.006
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Right Side	10mm	DSI17	633334	3500.01	19.21	14	22.7	0.07	0.062	0.019
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Top Side	10mm	DSI17	633334	3500.01	19.21	14	22.7	-0.14	0.234	0.073
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Front	10mm	DSI17	633334	3500.01	19.14	14	22.7	-0.18	0.203	0.065
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Back	10mm	DSI17	633334	3500.01	19.14	14	22.7	-0.14	0.326	0.104
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Left Side	10mm	DSI17	633334	3500.01	19.14	14	22.7	-0.02	0.016	0.005
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Right Side	10mm	DSI17	633334	3500.01	19.14	14	22.7	0.05	0.077	0.024
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Top Side	10mm	DSI17	633334	3500.01	19.14	14	22.7	0.01	0.246	0.078
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Front	10mm	DSI17	656000	3840	19.08	14	22.7	0.13	0.081	0.026
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Back	10mm	DSI17	656000	3840	19.08	14	22.7	-0.17	0.342	0.110
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Left Side	10mm	DSI17	656000	3840	19.08	14	22.7	-0.08	0.011	0.004
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Right Side	10mm	DSI17	656000	3840	19.08	14	22.7	0.02	0.095	0.031
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Top Side	10mm	DSI17	656000	3840	19.08	14	22.7	0.13	0.309	0.100
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Front	10mm	DSI17	656000	3840	19.05	14	22.7	0.18	0.078	0.025
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Back	10mm	DSI17	656000	3840	19.05	14	22.7	0.04	0.387	0.126
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Left Side	10mm	DSI17	656000	3840	19.05	14	22.7	-0.14	0.010	0.003
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Right Side	10mm	DSI17	656000	3840	19.05	14	22.7	-0.06	0.073	0.024
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Top Side	10mm	DSI17	656000	3840	19.05	14	22.7	0.17	0.267	0.087

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 4	Reduced	39	2441	9.40	10.00	1.148	76.1	1.314	-0.07	0.025	0.038
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 4	Reduced	39	2441	9.40	10.00	1.148	76.1	1.314	0.03	0.029	0.044
	Bluetooth	DH5 1Mbps	Left Side	10mm	Ant 4	Reduced	39	2441	9.40	10.00	1.148	76.1	1.314	-0.08	0.000	0.000
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 4	Reduced	39	2441	9.40	10.00	1.148	76.1	1.314	-0.12	0.037	0.056
	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 4	Reduced	39	2441	9.40	10.00	1.148	76.1	1.314	-0.01	0.052	0.078
	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 4	Reduced	0	2402	8.80	10.00	1.318	76.1	1.314	0.05	0.033	0.057
	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 4	Reduced	78	2480	9.20	10.00	1.202	76.1	1.314	0.1	0.052	0.082
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 6	Reduced	39	2441	10.80	12.00	1.318	76.1	1.314	0.04	0.036	0.062
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 6	Reduced	39	2441	10.80	12.00	1.318	76.1	1.314	-0.14	0.062	0.107
	Bluetooth	DH5 1Mbps	Left Side	10mm	Ant 6	Reduced	39	2441	10.80	12.00	1.318	76.1	1.314	-0.01	0.061	0.106
54	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 6	Reduced	39	2441	10.80	12.00	1.318	76.1	1.314	0.06	0.101	0.175
	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 6	Reduced	39	2441	10.80	12.00	1.318	76.1	1.314	-0.04	0.008	0.014
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 6	Reduced	0	2402	10.40	12.00	1.445	76.1	1.314	0	0.074	0.141
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 6	Reduced	78	2480	10.00	12.00	1.585	76.1	1.314	0.13	0.061	0.127

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4+6	Reduced_level 1	6	2437	18.26	20.00	1.493	100	1.000	0.02	0.291	0.434
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4+6	Reduced_level 1	6	2437	18.26	20.00	1.493	100	1.000	-0.09	0.498	0.743
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 4+6	Reduced_level 1	6	2437	18.26	20.00	1.493	100	1.000	0.03	0.020	0.030
55	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+6	Reduced_level 1	6	2437	18.26	20.00	1.493	100	1.000	-0.05	0.798	1.191
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4+6	Reduced_level 1	6	2437	18.26	20.00	1.493	100	1.000	0.04	0.253	0.378
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+6	Reduced_level 1	1	2412	18.21	20.00	1.510	100	1.000	0.07	0.692	1.045
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+6	Reduced_level 1	11	2462	18.21	20.00	1.510	100	1.000	0.02	0.715	1.080
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4+6	Reduced_level 2	6	2437	13.36	15.00	1.459	100	1.000	-0.08	0.066	0.096
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4+6	Reduced_level 2	6	2437	13.36	15.00	1.459	100	1.000	0.09	0.120	0.175
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 4+6	Reduced_level 2	6	2437	13.36	15.00	1.459	100	1.000	-0.12	0.002	0.003
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+6	Reduced_level 2	6	2437	13.36	15.00	1.459	100	1.000	0.03	0.206	0.301
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4+6	Reduced_level 2	6	2437	13.36	15.00	1.459	100	1.000	-0.1	0.059	0.086
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+6	Reduced_level 2	1	2412	13.31	15.00	1.476	100	1.000	-0.02	0.218	0.322
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+6	Reduced_level 2	11	2462	13.31	15.00	1.476	100	1.000	0.14	0.196	0.289

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	0.12	0.119	0.177
56	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	-0.11	0.283	0.420
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	-0.19	0.117	0.174
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	-0.08	0.082	0.122
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	0.06	0.088	0.131
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 13+9	Full	155	5775	20.25	22.00	1.496	100	1.000	-0.08	0.097	0.145
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 13+9	Full	155	5775	20.25	22.00	1.496	100	1.000	-0.06	0.140	0.209
57	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 13+9	Full	155	5775	20.25	22.00	1.496	100	1.000	0.08	0.180	0.269
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 13+9	Full	155	5775	20.25	22.00	1.496	100	1.000	0.02	0.060	0.090
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 13+9	Full	155	5775	20.25	22.00	1.496	100	1.000	0.01	0.065	0.097

**18.3 Body Worn Accessory SAR****<GSM SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_ANT 0	GPRS(4 Tx slots)	Front	15mm	-	DSI4	128	824.2	26.05	27.00	1.245	-0.04	0.192	0.239
58	GSM850_ANT 0	GPRS(4 Tx slots)	Back	15mm	-	DSI4	128	824.2	26.05	27.00	1.245	0.04	0.202	0.251
	GSM850_ANT 0	DTM Multi-slot class 9	Back	15mm	-	DSI4	128	824.2	22.65	23.98	1.358	0.01	0.177	0.240
	GSM850_ANT 0	GPRS(4 Tx slots)	Back	15mm	-	DSI4	189	836.4	25.90	27.00	1.288	-0.06	0.194	0.250
	GSM850_ANT 0	GPRS(4 Tx slots)	Back	15mm	-	DSI4	251	848.8	25.95	27.00	1.274	0.09	0.178	0.227
	GSM850_ANT 1	GPRS(4 Tx slots)	Front	15mm	-	DSI4	251	848.8	26.80	27.80	1.259	-0.14	0.076	0.096
	GSM850_ANT 1	GPRS(4 Tx slots)	Back	15mm	-	DSI4	251	848.8	26.80	27.80	1.259	-0.08	0.084	0.106
	GSM850_ANT 1	GPRS(4 Tx slots)	Back	15mm	-	DSI4	128	824.2	26.65	27.80	1.303	0.02	0.157	0.205
	GSM850_ANT 1	DTM Multi-slot class 9	Back	15mm	-	DSI4	128	824.2	23.70	24.78	1.282	-0.09	0.104	0.133
	GSM850_ANT 1	GPRS(4 Tx slots)	Back	15mm	-	DSI4	189	836.4	26.30	27.80	1.413	0.16	0.107	0.151
	GSM1900_ANT 2	GPRS(4 Tx slots)	Front	15mm	-	DSI4	661	1880	23.91	24.80	1.227	-0.04	0.092	0.113
	GSM1900_ANT 2	GPRS(4 Tx slots)	Back	15mm	-	DSI4	661	1880	23.91	24.80	1.227	-0.01	0.159	0.195
	GSM1900_ANT 2	GPRS(4 Tx slots)	Back	15mm	-	DSI4	512	1850.2	23.85	24.80	1.245	0.15	0.130	0.162
	GSM1900_ANT 2	GPRS(4 Tx slots)	Back	15mm	-	DSI4	810	1909.8	23.86	24.80	1.242	-0.15	0.157	0.195
	GSM1900_ANT 2	DTM Multi-slot class 9	Back	15mm	-	DSI4	810	1909.8	20.26	21.78	1.419	0.02	0.098	0.139
	GSM1900_ANT 3	GPRS(4 Tx slots)	Front	15mm	-	DSI4	810	1909.8	23.10	24.80	1.479	0.18	0.166	0.246
59	GSM1900_ANT 3	GPRS(4 Tx slots)	Back	15mm	-	DSI4	810	1909.8	23.10	24.80	1.479	0.12	0.221	0.327
	GSM1900_ANT 3	DTM Multi-slot class 9	Back	15mm	-	DSI4	810	1909.8	20.29	21.78	1.409	0.03	0.191	0.269
	GSM1900_ANT 3	GPRS(4 Tx slots)	Back	15mm	-	DSI4	512	1850.2	23.00	24.80	1.514	0.17	0.214	0.324
	GSM1900_ANT 3	GPRS(4 Tx slots)	Back	15mm	-	DSI4	661	1880	22.99	24.80	1.517	0.05	0.178	0.270

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_ANT 0	RMC 12.2Kbps	Front	15mm	-	DSI4	4132	826.4	23.03	24.30	1.340	0.11	0.215	0.288
60	WCDMA V_ANT 0	RMC 12.2Kbps	Back	15mm	-	DSI4	4132	826.4	23.03	24.30	1.340	0.05	0.258	0.346
	WCDMA V_ANT 0	RMC 12.2Kbps	Back	15mm	-	DSI4	4182	836.4	23.01	24.30	1.346	0.09	0.227	0.306
	WCDMA V_ANT 0	RMC 12.2Kbps	Back	15mm	-	DSI4	4233	846.6	23.01	24.30	1.346	0	0.229	0.308
	WCDMA V_ANT 1	RMC 12.2Kbps	Front	15mm	-	DSI4	4132	826.4	24.09	24.80	1.178	-0.03	0.154	0.181
	WCDMA V_ANT 1	RMC 12.2Kbps	Back	15mm	-	DSI4	4132	826.4	24.09	24.80	1.178	0.13	0.174	0.205
	WCDMA V_ANT 1	RMC 12.2Kbps	Back	15mm	-	DSI4	4182	836.4	24.08	24.80	1.180	0.16	0.151	0.178
	WCDMA V_ANT 1	RMC 12.2Kbps	Back	15mm	-	DSI4	4233	846.6	24.08	24.80	1.180	-0.03	0.146	0.172
	WCDMA IV_ANT 2	RMC 12.2Kbps	Front	15mm	-	DSI4	1413	1732.6	24.18	24.80	1.153	-0.09	0.175	0.202
	WCDMA IV_ANT 2	RMC 12.2Kbps	Back	15mm	-	DSI4	1413	1732.6	24.18	24.80	1.153	-0.06	0.291	0.336
	WCDMA IV_ANT 2	RMC 12.2Kbps	Back	15mm	-	DSI4	1312	1712.4	24.07	24.80	1.183	0.09	0.208	0.246
61	WCDMA IV_ANT 2	RMC 12.2Kbps	Back	15mm	-	DSI4	1513	1752.6	24.16	24.80	1.159	0.14	0.340	0.394
	WCDMA IV_ANT 3	RMC 12.2Kbps	Front	15mm	-	DSI4	1413	1732.6	23.88	24.80	1.236	0	0.214	0.264
	WCDMA IV_ANT 3	RMC 12.2Kbps	Back	15mm	-	DSI4	1413	1732.6	23.88	24.80	1.236	-0.19	0.233	0.288
	WCDMA IV_ANT 3	RMC 12.2Kbps	Back	15mm	-	DSI4	1312	1712.4	23.79	24.80	1.262	-0.07	0.219	0.276
	WCDMA IV_ANT 3	RMC 12.2Kbps	Back	15mm	-	DSI4	1513	1752.6	23.87	24.80	1.239	-0.01	0.230	0.285
	WCDMA II_ANT 2	RMC 12.2Kbps	Front	15mm	-	DSI4	9400	1880	23.94	24.80	1.219	0.18	0.257	0.313
62	WCDMA II_ANT 2	RMC 12.2Kbps	Back	15mm	-	DSI4	9400	1880	23.94	24.80	1.219	0.02	0.497	0.606
	WCDMA II_ANT 2	RMC 12.2Kbps	Back	15mm	-	DSI4	9262	1852.4	23.80	24.80	1.259	-0.16	0.374	0.471
	WCDMA II_ANT 2	RMC 12.2Kbps	Back	15mm	-	DSI4	9538	1907.6	23.78	24.80	1.265	-0.17	0.463	0.586
	WCDMA II_ANT 3	RMC 12.2Kbps	Front	15mm	-	DSI4	9400	1880	23.80	24.80	1.259	0.09	0.186	0.234
	WCDMA II_ANT 3	RMC 12.2Kbps	Back	15mm	-	DSI4	9400	1880	23.80	24.80	1.259	-0.12	0.216	0.272
	WCDMA II_ANT 3	RMC 12.2Kbps	Back	15mm	-	DSI4	9262	1852.4	23.65	24.80	1.303	-0.19	0.220	0.287
	WCDMA II_ANT 3	RMC 12.2Kbps	Back	15mm	-	DSI4	9538	1907.6	23.68	24.80	1.294	-0.05	0.212	0.274



FCC SAR TEST REPORT

Report No. : FA101920

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
63	LTE Band 71_ANT 0	20M	QPSK	1	0	Front	15mm	-	DSI4	133322	683	22.95	24.00	1.274	0.08	0.158	0.201
	LTE Band 71_ANT 0	20M	QPSK	1	0	Back	15mm	-	DSI4	133322	683	22.95	24.00	1.274	0.18	0.197	0.251
	LTE Band 71_ANT 0	20M	QPSK	50	0	Front	15mm	-	DSI4	133322	683	21.92	23.00	1.282	0.11	0.126	0.162
	LTE Band 71_ANT 0	20M	QPSK	50	0	Back	15mm	-	DSI4	133322	683	21.92	23.00	1.282	-0.11	0.158	0.203
	LTE Band 71_ANT 1	20M	QPSK	1	0	Front	15mm	-	DSI4	133322	683	24.15	24.80	1.161	-0.12	0.155	0.180
	LTE Band 71_ANT 1	20M	QPSK	1	0	Back	15mm	-	DSI4	133322	683	24.15	24.80	1.161	0.01	0.165	0.192
64	LTE Band 71_ANT 1	20M	QPSK	50	0	Front	15mm	-	DSI4	133322	683	23.10	23.80	1.175	-0.19	0.136	0.160
	LTE Band 71_ANT 1	20M	QPSK	50	0	Back	15mm	-	DSI4	133322	683	23.10	23.80	1.175	-0.04	0.151	0.177
	LTE Band 12_ANT 0	10M	QPSK	1	0	Front	15mm	-	DSI4	23095	707.5	23.00	24.00	1.259	-0.05	0.183	0.230
	LTE Band 12_ANT 0	10M	QPSK	1	0	Back	15mm	-	DSI4	23095	707.5	23.00	24.00	1.259	0.02	0.215	0.271
	LTE Band 12_ANT 0	10M	QPSK	25	0	Front	15mm	-	DSI4	23095	707.5	21.77	23.00	1.327	-0.02	0.145	0.192
	LTE Band 12_ANT 0	10M	QPSK	25	0	Back	15mm	-	DSI4	23095	707.5	21.77	23.00	1.327	0.02	0.200	0.265
65	LTE Band 12_ANT 1	10M	QPSK	1	0	Front	15mm	-	DSI4	23095	707.5	23.92	24.80	1.225	0.1	0.141	0.173
	LTE Band 12_ANT 1	10M	QPSK	1	0	Back	15mm	-	DSI4	23095	707.5	23.92	24.80	1.225	0.03	0.197	0.241
	LTE Band 12_ANT 1	10M	QPSK	25	0	Front	15mm	-	DSI4	23095	707.5	22.95	23.80	1.216	0.16	0.156	0.190
	LTE Band 12_ANT 1	10M	QPSK	25	0	Back	15mm	-	DSI4	23095	707.5	22.95	23.80	1.216	0.08	0.171	0.208
	LTE Band 13_ANT 0	10M	QPSK	1	0	Front	15mm	-	DSI4	23230	782	23.05	24.00	1.245	-0.15	0.187	0.233
	LTE Band 13_ANT 0	10M	QPSK	1	0	Back	15mm	-	DSI4	23230	782	23.05	24.00	1.245	0.05	0.193	0.240
66	LTE Band 13_ANT 0	10M	QPSK	25	0	Front	15mm	-	DSI4	23230	782	22.06	23.00	1.242	0.18	0.143	0.178
	LTE Band 13_ANT 0	10M	QPSK	25	0	Back	15mm	-	DSI4	23230	782	22.06	23.00	1.242	0.14	0.179	0.222
	LTE Band 13_ANT 1	10M	QPSK	1	0	Front	15mm	-	DSI4	23230	782	23.75	24.80	1.274	-0.13	0.194	0.247
	LTE Band 13_ANT 1	10M	QPSK	1	0	Back	15mm	-	DSI4	23230	782	23.75	24.80	1.274	-0.19	0.215	0.274
	LTE Band 13_ANT 1	10M	QPSK	25	0	Front	15mm	-	DSI4	23230	782	22.67	23.80	1.297	-0.1	0.162	0.210
	LTE Band 13_ANT 1	10M	QPSK	25	0	Back	15mm	-	DSI4	23230	782	22.67	23.80	1.297	-0.02	0.167	0.217
67	LTE Band 26_ANT 0	15M	QPSK	1	0	Front	15mm	-	DSI4	26865	831.5	22.96	24.00	1.271	0.16	0.159	0.202
	LTE Band 26_ANT 0	15M	QPSK	1	0	Back	15mm	-	DSI4	26865	831.5	22.96	24.00	1.271	0.02	0.227	0.288
	LTE Band 26_ANT 0	15M	QPSK	1	0	Back	15mm	-	DSI4	26765	821.5	22.91	24.00	1.285	0.18	0.223	0.287
	LTE Band 26_ANT 0	15M	QPSK	1	0	Back	15mm	-	DSI4	26965	841.5	22.84	24.00	1.306	-0.04	0.220	0.287
	LTE Band 26_ANT 0	15M	QPSK	36	0	Front	15mm	-	DSI4	26865	831.5	21.77	23.00	1.327	-0.07	0.121	0.161
	LTE Band 26_ANT 0	15M	QPSK	36	0	Back	15mm	-	DSI4	26865	831.5	21.77	23.00	1.327	-0.08	0.180	0.239
68	LTE Band 26_ANT 1	15M	QPSK	1	0	Front	15mm	-	DSI4	26865	831.5	23.85	24.80	1.245	0.19	0.153	0.190
	LTE Band 26_ANT 1	15M	QPSK	1	0	Back	15mm	-	DSI4	26865	831.5	23.85	24.80	1.245	-0.07	0.163	0.203
	LTE Band 26_ANT 1	15M	QPSK	1	0	Back	15mm	-	DSI4	26765	821.5	23.65	24.80	1.303	0.18	0.155	0.202
	LTE Band 26_ANT 1	15M	QPSK	1	0	Back	15mm	-	DSI4	26965	841.5	23.62	24.80	1.312	0.15	0.151	0.198
	LTE Band 26_ANT 1	15M	QPSK	36	0	Front	15mm	-	DSI4	26865	831.5	22.74	23.80	1.276	0.06	0.121	0.154
	LTE Band 26_ANT 1	15M	QPSK	36	0	Back	15mm	-	DSI4	26865	831.5	22.74	23.80	1.276	-0.1	0.131	0.167
69	LTE Band 66_ANT 2	20M	QPSK	1	0	Front	15mm	-	DSI4	132322	1745	23.80	24.80	1.259	-0.11	0.153	0.193
	LTE Band 66_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	132322	1745	23.80	24.80	1.259	0.14	0.210	0.264
	LTE Band 66_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	132072	1720	23.45	24.80	1.365	-0.17	0.154	0.210
	LTE Band 66_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	132572	1770	23.50	24.80	1.349	0.12	0.288	0.389
	LTE Band 66_ANT 2	20M	QPSK	50	0	Front	15mm	-	DSI4	132322	1745	22.80	23.80	1.259	0.08	0.118	0.149
	LTE Band 66_ANT 2	20M	QPSK	50	0	Back	15mm	-	DSI4	132322	1745	22.80	23.80	1.259	0.19	0.187	0.235
70	LTE Band 66_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	132322	1745	23.92	24.80	1.225	0.02	0.173	0.212
	LTE Band 66_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	132322	1745	23.92	24.80	1.225	-0.06	0.186	0.228
	LTE Band 66_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	132072	1720	23.72	24.80	1.282	0.07	0.176	0.226
	LTE Band 66_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	132572	1770	23.75	24.80	1.274	0.19	0.170	0.216
	LTE Band 66_ANT 3	20M	QPSK	50	0	Front	15mm	-	DSI4	132322	1745	22.89	23.80	1.233	0.06	0.161	0.199
	LTE Band 66_ANT 3	20M	QPSK	50	0	Back	15mm	-	DSI4	132322	1745	22.89	23.80	1.233	0.15	0.170	0.210
71	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	15mm	-	DSI4	132322	1745	23.95	24.80	1.216	-0.01	0.311	0.378
	LTE Band 66_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	132322	1745	23.95	24.80	1.216	-0.17	0.404	0.491
	LTE Band 66_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	132072	1720	23.91	24.80	1.227	0.01	0.374	0.459
	LTE Band 66_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	132572	1770	23.88	24.80	1.236	0.06	0.378	0.467
	LTE Band 66_ANT 5	20M	QPSK	50	0	Front	15mm	-	DSI4	132322	1745	22.86	23.80	1.242	0.04	0.281	0.349
	LTE Band 66_ANT 5	20M	QPSK	50	0	Back	15mm	-	DSI4	132322	1745	22.86	23.80	1.242	0.04	0.380	0.472
72	LTE Band 66_ANT 1	20M	QPSK	1	0	Front	15mm	-	DSI4	132322	1745	22.85	23.80	1.245	-0.04	0.216	0.269



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 66_ANT 1	20M	QPSK	1	0	Back	15mm	-	DSI4	132322	1745	22.85	23.80	1.245	-0.1	0.225	0.280
	LTE Band 66_ANT 1	20M	QPSK	1	0	Back	15mm	-	DSI4	132072	1720	22.84	23.80	1.247	0.09	0.205	0.256
	LTE Band 66_ANT 1	20M	QPSK	1	0	Back	15mm	-	DSI4	132572	1770	22.82	23.80	1.253	-0.02	0.214	0.268
	LTE Band 66_ANT 1	20M	QPSK	50	0	Front	15mm	-	DSI4	132322	1745	22.21	22.80	1.146	0.16	0.177	0.203
	LTE Band 66_ANT 1	20M	QPSK	50	0	Back	15mm	-	DSI4	132322	1745	22.21	22.80	1.146	-0.02	0.220	0.252
	LTE Band 25_ANT 2	20M	QPSK	1	0	Front	15mm	-	DSI4	26340	1880	24.11	24.80	1.172	0.18	0.218	0.256
	LTE Band 25_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	26340	1880	24.11	24.80	1.172	0.13	0.337	0.395
	LTE Band 25_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	26140	1860	24.09	24.80	1.178	-0.08	0.311	0.366
68	LTE Band 25_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	26590	1905	24.03	24.80	1.194	-0.18	0.377	0.450
	LTE Band 25_ANT 2	20M	QPSK	50	0	Front	15mm	-	DSI4	26340	1880	23.17	23.80	1.156	0.01	0.176	0.203
	LTE Band 25_ANT 2	20M	QPSK	50	0	Back	15mm	-	DSI4	26340	1880	23.17	23.80	1.156	0.06	0.279	0.323
	LTE Band 25_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	26340	1880	23.74	24.80	1.276	-0.12	0.168	0.214
	LTE Band 25_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	26340	1880	23.74	24.80	1.276	-0.02	0.208	0.265
	LTE Band 25_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	26140	1860	23.57	24.80	1.327	0.19	0.189	0.251
	LTE Band 25_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	26590	1905	23.62	24.80	1.312	0.16	0.221	0.290
	LTE Band 25_ANT 3	20M	QPSK	50	0	Front	15mm	-	DSI4	26340	1880	22.77	23.80	1.268	0.13	0.173	0.219
	LTE Band 25_ANT 3	20M	QPSK	50	0	Back	15mm	-	DSI4	26340	1880	22.77	23.80	1.268	-0.14	0.213	0.270
	LTE Band 30_ANT 2	10M	QPSK	1	0	Front	15mm	-	DSI4	27710	2310	24.03	24.80	1.194	0.15	0.194	0.232
69	LTE Band 30_ANT 2	10M	QPSK	1	0	Back	15mm	-	DSI4	27710	2310	24.03	24.80	1.194	-0.01	0.296	0.353
	LTE Band 30_ANT 2	10M	QPSK	25	0	Front	15mm	-	DSI4	27710	2310	22.85	23.80	1.245	-0.03	0.154	0.192
	LTE Band 30_ANT 2	10M	QPSK	25	0	Back	15mm	-	DSI4	27710	2310	22.85	23.80	1.245	-0.07	0.266	0.331
	LTE Band 30_ANT 3	10M	QPSK	1	0	Front	15mm	-	DSI4	27710	2310	23.59	24.80	1.321	0.01	0.219	0.289
	LTE Band 30_ANT 3	10M	QPSK	1	0	Back	15mm	-	DSI4	27710	2310	23.59	24.80	1.321	0.1	0.188	0.248
	LTE Band 30_ANT 3	10M	QPSK	25	0	Front	15mm	-	DSI4	27710	2310	22.50	23.80	1.349	0.18	0.222	0.299
	LTE Band 30_ANT 3	10M	QPSK	25	0	Back	15mm	-	DSI4	27710	2310	22.50	23.80	1.349	0.03	0.219	0.295
	LTE Band 7_ANT 2	20M	QPSK	1	0	Front	15mm	-	DSI4	21100	2535	23.50	24.00	1.122	0.05	0.203	0.228
	LTE Band 7_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	21100	2535	23.50	24.00	1.122	0.19	0.362	0.406
	LTE Band 7_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	20850	2510	23.41	24.00	1.146	-0.07	0.322	0.369
	LTE Band 7_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	21350	2560	23.47	24.00	1.130	0.06	0.398	0.450
	LTE Band 7C_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	21350/21152	2560+2540.2	23.07	24.00	1.239	0.1	0.234	0.290
	LTE Band 7_ANT 2	20M	QPSK	50	0	Front	15mm	-	DSI4	21100	2535	22.66	23.00	1.081	-0.16	0.157	0.170
	LTE Band 7_ANT 2	20M	QPSK	50	0	Back	15mm	-	DSI4	21100	2535	22.66	23.00	1.081	-0.03	0.291	0.315
	LTE Band 7_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	21100	2535	23.28	24.00	1.180	-0.08	0.414	0.489
	LTE Band 7_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	21100	2535	23.28	24.00	1.180	0.06	0.381	0.450
	LTE Band 7_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	20850	2510	23.25	24.00	1.189	-0.17	0.376	0.447
	LTE Band 7_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	21350	2560	23.25	24.00	1.189	0.04	0.474	0.563
	LTE Band 7C_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	21350/21152	2560+2540.2	22.57	24.00	1.390	0.14	0.311	0.432
	LTE Band 7_ANT 3	20M	QPSK	50	0	Front	15mm	-	DSI4	21100	2535	22.64	23.00	1.086	0.07	0.335	0.364
	LTE Band 7_ANT 3	20M	QPSK	50	0	Back	15mm	-	DSI4	21100	2535	22.64	23.00	1.086	-0.08	0.305	0.331
	LTE Band 7_ANT 5	20M	QPSK	1	0	Front	15mm	-	DSI4	21100	2535	23.02	24.80	1.507	-0.06	0.434	0.654
70	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	21100	2535	23.02	24.80	1.507	-0.15	0.582	0.877
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	20850	2510	22.98	24.80	1.521	0.09	0.420	0.639
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	21350	2560	23.01	24.80	1.510	-0.04	0.530	0.800
	LTE Band 7_ANT 5	20M	QPSK	50	0	Front	15mm	-	DSI4	21100	2535	22.00	23.80	1.514	0.15	0.297	0.450
	LTE Band 7_ANT 5	20M	QPSK	50	0	Back	15mm	-	DSI4	21100	2535	22.00	23.80	1.514	-0.04	0.364	0.551
	LTE Band 7_ANT 5	20M	QPSK	100	0	Back	15mm	-	DSI4	21100	2535	21.99	23.80	1.517	0.06	0.366	0.555
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI9/14	21100	2535	22.21	23.80	1.442	-0.19	0.417	0.601
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI9/14	20850	2510	22.15	23.80	1.462	-0.17	0.404	0.591
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI9/14	21350	2560	22.17	23.80	1.455	0.01	0.489	0.712
	LTE Band 7_ANT 5	20M	QPSK	50	0	Back	15mm	-	DSI9/14	21100	2535	22.19	23.80	1.449	0.07	0.442	0.640
	LTE Band 7_ANT 1	20M	QPSK	1	0	Front	15mm	-	DSI4	21100	2535	22.85	23.80	1.245	-0.05	0.189	0.235
	LTE Band 7_ANT 1	20M	QPSK	1	0	Back	15mm	-	DSI4	21100	2535	22.85	23.80	1.245	-0.16	0.183	0.228
	LTE Band 7_ANT 1	20M	QPSK	1	0	Front	15mm	-	DSI4	20850	2510	22.81	23.80	1.256	0.04	0.168	0.211
	LTE Band 7_ANT 1	20M	QPSK	1	0	Front	15mm	-	DSI4	21350	2560	22.80	23.80	1.259	0.01	0.159	0.200
	LTE Band 7_ANT 1	20M	QPSK	50	0	Front	15mm	-	DSI4	21100	2535	22.10	22.80	1.175	-0.06	0.146	0.172
	LTE Band 7_ANT 1	20M	QPSK	50	0	Back	15mm	-	DSI4	21100	2535	22.10	22.80	1.175	-0.03	0.140	0.164



FCC SAR TEST REPORT

Report No. : FA101920

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_ANT 2	20M	QPSK	1	0	Front	15mm	-	DSI4	40185	2549.5	23.87	24.80	1.239	62.9	1.006	-0.01	0.135	0.168
	LTE Band 41_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	40185	2549.5	23.87	24.80	1.239	62.9	1.006	-0.05	0.244	0.304
	LTE Band 41_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	39750	2506	23.86	24.80	1.242	62.9	1.006	-0.16	0.203	0.254
	LTE Band 41_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	40620	2593	23.51	24.80	1.346	62.9	1.006	0.13	0.290	0.393
	LTE Band 41C_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	40620+40422	2593+2573.2	23.10	24.80	1.479	62.9	1.006	0.05	0.206	0.307
	LTE Band 41_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	41055	2636.5	23.71	24.80	1.285	62.9	1.006	-0.14	0.279	0.361
	LTE Band 41_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	41490	2680	23.54	24.80	1.337	62.9	1.006	0.15	0.285	0.383
	LTE Band 41_ANT 2	20M	QPSK	50	0	Front	15mm	-	DSI4	40185	2549.5	22.79	23.80	1.262	62.9	1.006	0.14	0.114	0.145
	LTE Band 41_ANT 2	20M	QPSK	50	0	Back	15mm	-	DSI4	40185	2549.5	22.79	23.80	1.262	62.9	1.006	-0.03	0.200	0.254
	LTE Band 41_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	40185	2549.5	23.85	24.80	1.245	62.9	1.006	-0.01	0.274	0.343
	LTE Band 41_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	40185	2549.5	23.85	24.80	1.245	62.9	1.006	0.01	0.306	0.383
	LTE Band 41C_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	40185+40383	2549.5+2569.3	23.05	24.80	1.496	62.9	1.006	0.03	0.165	0.248
	LTE Band 41_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	39750	2506	23.41	24.80	1.377	62.9	1.006	0.09	0.248	0.344
	LTE Band 41_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	40620	2593	23.79	24.80	1.262	62.9	1.006	-0.01	0.230	0.292
	LTE Band 41_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	41055	2636.5	23.61	24.80	1.315	62.9	1.006	0.19	0.235	0.311
	LTE Band 41_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	41490	2680	23.80	24.80	1.259	62.9	1.006	0.09	0.225	0.285
	LTE Band 41_ANT 3	20M	QPSK	50	0	Front	15mm	-	DSI4	40185	2549.5	22.88	23.80	1.236	62.9	1.006	0.02	0.218	0.271
	LTE Band 41_ANT 3	20M	QPSK	50	0	Back	15mm	-	DSI4	40185	2549.5	22.88	23.80	1.236	62.9	1.006	-0.06	0.245	0.305
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Front	15mm	-	DSI4	40185	2549.5	25.55	26.80	1.334	42.9	1.009	-0.14	0.110	0.148
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	40185	2549.5	25.55	26.80	1.334	42.9	1.009	0.14	0.210	0.283
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	39750	2506	25.07	26.80	1.489	42.9	1.009	-0.14	0.168	0.252
71	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	40620	2593	25.49	26.80	1.352	42.9	1.009	0.19	0.313	0.427
	LTE Band 41C(HPUE)_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	40620+40422	2593+2573.2	25.07	26.80	1.489	42.9	1.009	0.09	0.188	0.283
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	41055	2636.5	24.90	26.80	1.549	42.9	1.009	-0.12	0.270	0.422
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Back	15mm	-	DSI4	41490	2680	25.50	26.80	1.349	42.9	1.009	0.17	0.310	0.422
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Front	15mm	-	DSI4	40185	2549.5	24.48	25.80	1.355	42.9	1.009	-0.15	0.097	0.133
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Back	15mm	-	DSI4	40185	2549.5	24.48	25.80	1.355	42.9	1.009	0.11	0.170	0.232
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Front	15mm	-	DSI4	40185	2549.5	26.10	26.80	1.175	42.9	1.009	-0.15	0.298	0.353
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	40185	2549.5	26.10	26.80	1.175	42.9	1.009	0.19	0.334	0.396
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	39750	2506	25.51	26.80	1.346	42.9	1.009	0	0.305	0.414
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	40620	2593	25.68	26.80	1.294	42.9	1.009	0.03	0.303	0.396
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	41055	2636.5	25.80	26.80	1.259	42.9	1.009	0.13	0.332	0.422
	LTE Band 41C(HPUE)_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	41055+40857	2636.5+2616.7	25.18	26.80	1.452	42.9	1.009	0.11	0.196	0.287
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	1	0	Back	15mm	-	DSI4	41490	2680	26.00	26.80	1.202	42.9	1.009	-0.13	0.343	0.416
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Front	15mm	-	DSI4	40185	2549.5	24.89	25.80	1.233	42.9	1.009	-0.09	0.242	0.301
	LTE Band 41(HPUE)_ANT 3	20M	QPSK	50	0	Back	15mm	-	DSI4	40185	2549.5	24.89	25.80	1.233	42.9	1.009	-0.12	0.272	0.338
	LTE Band 48_ANT 5	20M	QPSK	1	0	Front	15mm	-	DSI4	55830	3609	24.36	24.80	1.107	62.9	1.006	-0.04	0.301	0.335
	LTE Band 48_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	55830	3609	24.36	24.80	1.107	62.9	1.006	0.05	0.424	0.472
	LTE Band 48_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	55340	3560	24.25	24.80	1.135	62.9	1.006	0.13	0.427	0.488
	LTE Band 48_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	56150	3641	24.35	24.80	1.109	62.9	1.006	-0.01	0.449	0.501
	LTE Band 48_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	56640	3690	24.21	24.80	1.146	62.9	1.006	-0.18	0.492	0.567
	LTE Band 48C_ANT 5	20M	QPSK	1	0	Back	15mm	-	DSI4	56640+56442	3690+3670.2	22.92	24.80	1.542	62.9	1.006	0.15	0.346	0.537
	LTE Band 48_ANT 5	20M	QPSK	50	0	Front	15mm	-	DSI4	55830	3609	23.42	23.80	1.091	62.9	1.006	-0.15	0.242	0.266
	LTE Band 48_ANT 5	20M	QPSK	50	0	Back	15mm	-	DSI4	55830	3609	23.42	23.80	1.091	62.9	1.006	0.14	0.345	0.379
	LTE Band 48_ANT 10	20M	QPSK	1	0	Front	15mm	-	DSI4	55830	3609	24.20	24.80	1.148	62.9	1.006	0.16	0.049	0.057
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI4	55830	3609	24.20	24.80	1.148	62.9	1.006	-0.08	0.510	0.589
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI4	55340	3560	24.09	24.80	1.178	62.9	1.006	-0.03	0.308	0.365
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI4	56150	3641	24.18	24.80	1.153	62.9	1.006	-0.08	0.669	0.776
72	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI4	56640	3690	24.11	24.80	1.172	62.9	1.006	-0.14	0.932	1.099
	LTE Band 48C_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI4	56640+56442	3690+3670.2	22.99	24.80	1.517	62.9	1.006	0.01	0.661	1.009
	LTE Band 48_ANT 10	20M	QPSK	50	0	Front	15mm	-	DSI4	55830	3609	23.30	23.80	1.122	62.9	1.006	0.05	0.043	0.049
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	15mm	-	DSI4	55830	3609	23.30	23.80	1.122	62.9	1.006	-0.15	0.507	0.572
	LTE Band 48_ANT 10	20M	QPSK	100	0	Back	15mm	-	DSI4	55830	3609	23.30	23.80	1.122	62.9	1.006	-0.11	0.500	0.564
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI9/14	55830	3609	21.26	21.80	1.132	62.9	1.006	-0.18	0.356	0.406



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI9/14	55340	3560	21.04	21.80	1.191	62.9	1.006	0.16	0.229	0.274
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI9/14	56150	3641	21.12	21.80	1.169	62.9	1.006	0.08	0.524	0.616
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI9/14	56640	3690	21.15	21.80	1.161	62.9	1.006	0.17	0.654	0.764
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	15mm	-	DSI9/14	56640+56442	3690+3670.2	19.88	21.80	1.556	62.9	1.006	0.04	0.485	0.759
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	15mm	-	DSI9/14	55830	3609	21.25	21.80	1.135	62.9	1.006	-0.18	0.387	0.442
	LTE Band 48_ANT 10	20M	QPSK	100	0	Back	15mm	-	DSI9/14	55830	3609	21.24	21.80	1.138	62.9	1.006	-0.17	0.410	0.469

<5GNR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	N71_Ant 0	20M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	136100	680.5	23.35	24.40	1.274	-0.09	0.192	0.245
73	N71_Ant 0	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	136100	680.5	23.35	24.40	1.274	-0.03	0.235	0.299
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Front	15mm	-	DSI4	136100	680.5	23.22	24.40	1.312	-0.14	0.185	0.243
	N71_Ant 0	20M	QPSK	50	28	DFT-15	Back	15mm	-	DSI4	136100	680.5	23.22	24.40	1.312	-0.16	0.221	0.290
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	136100	680.5	24.38	25.20	1.208	0.15	0.139	0.168
	N71_Ant 1	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	136100	680.5	24.38	25.20	1.208	-0.07	0.168	0.203
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Front	15mm	-	DSI4	136100	680.5	24.31	25.20	1.227	0.08	0.149	0.183
	N71_Ant 1	20M	QPSK	50	28	DFT-15	Back	15mm	-	DSI4	136100	680.5	24.31	25.20	1.227	-0.03	0.171	0.210
	N5_Ant 0	20M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	167300	836.5	23.15	24.20	1.274	-0.14	0.238	0.303
74	N5_Ant 0	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	167300	836.5	23.15	24.20	1.274	-0.18	0.240	0.306
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Front	15mm	-	DSI4	167300	836.5	23.00	24.20	1.318	0.12	0.227	0.299
	N5_Ant 0	20M	QPSK	50	28	DFT-15	Back	15mm	-	DSI4	167300	836.5	23.00	24.20	1.318	-0.12	0.216	0.285
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	167300	836.5	23.78	24.70	1.236	-0.02	0.133	0.164
	N5_Ant 1	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	167300	836.5	23.78	24.70	1.236	0.08	0.141	0.174
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Front	15mm	-	DSI4	167300	836.5	23.69	24.70	1.262	0.16	0.116	0.146
	N5_Ant 1	20M	QPSK	50	28	DFT-15	Back	15mm	-	DSI4	167300	836.5	23.69	24.70	1.262	-0.12	0.132	0.167
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	349000	1745	24.20	25.20	1.259	0.08	0.270	0.340
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	349000	1745	24.20	25.20	1.259	0.1	0.303	0.381
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Front	15mm	-	DSI4	349000	1745	24.18	25.20	1.265	0.03	0.260	0.329
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Back	15mm	-	DSI4	349000	1745	24.18	25.20	1.265	0.06	0.293	0.371
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	349000	1745	24.29	25.20	1.233	0.03	0.254	0.313
	N66_Ant 2	40M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	349000	1745	24.29	25.20	1.233	0.16	0.332	0.409
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Front	15mm	-	DSI4	349000	1745	24.26	25.20	1.242	0.13	0.175	0.217
	N66_Ant 2	40M	QPSK	108	54	DFT-15	Back	15mm	-	DSI4	349000	1745	24.26	25.20	1.242	-0.1	0.237	0.294
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	349000	1745	23.88	25.20	1.355	0.09	0.267	0.362
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	349000	1745	23.88	25.20	1.355	-0.16	0.370	0.501
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Front	15mm	-	DSI4	349000	1745	23.86	25.20	1.361	0.07	0.249	0.339
75	N66_Ant 5	40M	QPSK	108	54	DFT-15	Back	15mm	-	DSI4	349000	1745	23.86	25.20	1.361	-0.05	0.394	0.536
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	349000	1745	23.18	24.20	1.265	0.07	0.183	0.231
	N66_Ant 1	40M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	349000	1745	23.18	24.20	1.265	-0.15	0.178	0.225
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Front	15mm	-	DSI4	349000	1745	23.12	24.20	1.282	-0.09	0.208	0.267
	N66_Ant 1	40M	QPSK	108	54	DFT-15	Back	15mm	-	DSI4	349000	1745	23.12	24.20	1.282	-0.11	0.248	0.318
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	376500	1882.5	24.20	25.20	1.259	0.12	0.144	0.181
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	376500	1882.5	24.20	25.20	1.259	-0.11	0.218	0.274
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Front	15mm	-	DSI4	376500	1882.5	24.05	25.20	1.303	0.07	0.148	0.193
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Back	15mm	-	DSI4	376500	1882.5	24.05	25.20	1.303	0.09	0.238	0.310
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	376500	1882.5	24.10	25.20	1.288	-0.01	0.244	0.314
76	N25_Ant 2	40M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	376500	1882.5	24.10	25.20	1.288	-0.16	0.410	0.528
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Front	15mm	-	DSI4	376500	1882.5	23.90	25.20	1.349	0.1	0.208	0.281
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Back	15mm	-	DSI4	376500	1882.5	23.90	25.20	1.349	-0.18	0.351	0.473
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	462000	2310	24.11	25.20	1.285	0.08	0.134	0.172
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	462000	2310	24.11	25.20	1.285	0.16	0.139	0.179
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Front	15mm	-	DSI4	462000	2310	24.09	25.20	1.291	0.15	0.124	0.160
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Back	15mm	-	DSI4	462000	2310	24.09	25.20	1.291	-0.09	0.136	0.176
	N30_Ant 2	10M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	462000	2310	23.56	24.70	1.300	-0.17	0.122	0.159



FCC SAR TEST REPORT

Report No. : FA101920

77	N30_Ant 2	10M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	462000	2310	23.56	24.70	1.300	0.14	0.198	0.257
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Front	15mm	-	DSI4	462000	2310	23.54	24.70	1.306	0.16	0.118	0.154
	N30_Ant 2	10M	QPSK	25	14	DFT-15	Back	15mm	-	DSI4	462000	2310	23.54	24.70	1.306	-0.18	0.152	0.199
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	507000	2535	23.10	24.20	1.288	0.01	0.139	0.179
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	507000	2535	23.10	24.20	1.288	0.04	0.154	0.198
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	502000	2510	23.05	24.20	1.303	0.06	0.147	0.192
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	512000	2560	23.03	24.20	1.309	0.02	0.143	0.187
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Front	15mm	-	DSI4	507000	2535	23.00	24.20	1.318	-0.1	0.143	0.189
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Back	15mm	-	DSI4	507000	2535	23.00	24.20	1.318	-0.01	0.144	0.190
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Front	15mm	-	DSI4	507000	2535	23.04	24.20	1.306	0.15	0.213	0.278
78	N7_Ant 2	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	507000	2535	23.04	24.20	1.306	0.19	0.376	0.491
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	502000	2510	23.01	24.20	1.315	-0.02	0.358	0.471
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Back	15mm	-	DSI4	512000	2560	22.92	24.20	1.343	0.05	0.364	0.489
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Front	15mm	-	DSI4	507000	2535	22.91	24.20	1.346	0.1	0.211	0.284
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Back	15mm	-	DSI4	507000	2535	22.91	24.20	1.346	-0.15	0.326	0.439
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	23.13	24.20	1.279	-0.13	0.140	0.179
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	23.13	24.20	1.279	0.17	0.142	0.182
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	23.00	24.20	1.318	0.03	0.136	0.179
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	23.00	24.20	1.318	0.03	0.139	0.183
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	23.35	24.20	1.216	-0.08	0.273	0.332
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	23.35	24.20	1.216	-0.11	0.432	0.525
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	22.93	24.20	1.340	-0.09	0.216	0.289
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	22.93	24.20	1.340	0.02	0.478	0.640
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	25.58	27.20	1.452	-0.13	0.140	0.203
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	25.58	27.20	1.452	0.17	0.142	0.206
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	24.82	26.20	1.374	0.03	0.136	0.187
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	24.82	26.20	1.374	0.03	0.139	0.191
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	26.21	27.20	1.256	0.06	0.303	0.381
79	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	26.21	27.20	1.256	0.04	0.573	0.720
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	26.14	27.20	1.276	-0.08	0.185	0.236
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	26.14	27.20	1.276	0.04	0.358	0.457
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	25.16	26.20	1.271	-0.01	0.166	0.211
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	25.16	26.20	1.271	0.02	0.223	0.283
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	24.13	25.20	1.279	0.07	0.171	0.219
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	24.13	25.20	1.279	0.19	0.258	0.330
	N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	24.08	25.20	1.294	0.05	0.214	0.277
	N41(PC2)_Ant 1	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	24.08	25.20	1.294	0.07	0.173	0.224
	N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	23.91	25.20	1.346	-0.05	0.138	0.186
	N41(PC2)_Ant 1	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	23.91	25.20	1.346	0.08	0.162	0.218
	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	23.13	24.20	1.279	-0.13	0.140	0.179
	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	23.13	24.20	1.279	0.17	0.142	0.182
	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	23.00	24.20	1.318	0.03	0.136	0.179
	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	23.00	24.20	1.318	0.03	0.139	0.183
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	518598	2592.99	22.98	24.20	1.324	-0.01	0.166	0.220
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	518598	2592.99	22.98	24.20	1.324	0.02	0.223	0.295
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	518598	2592.99	22.85	24.20	1.365	0.07	0.171	0.233
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	518598	2592.99	22.85	24.20	1.365	0.19	0.258	0.352
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	633334	3500.01	25.87	26.70	1.211	0.1	0.137	0.166
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	633334	3500.01	25.87	26.70	1.211	0.12	0.166	0.201
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	633334	3500.01	25.80	26.70	1.230	0.12	0.142	0.175
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	633334	3500.01	25.80	26.70	1.230	-0.04	0.238	0.293
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	656000	3840	25.61	26.70	1.285	-0.13	0.154	0.198
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	656000	3840	25.61	26.70	1.285	-0.18	0.309	0.397
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	656000	3840	25.11	26.70	1.442	-0.14	0.149	0.215
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	656000	3840	25.11	26.70	1.442	-0.09	0.261	0.376
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	633334	3500.01	24.91	26.20	1.346	0.11	0.066	0.089



FCC SAR TEST REPORT

Report No. : FA101920

	N77_Ant 10	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	633334	3500.01	24.91	26.20	1.346	-0.12	0.552	0.743
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	633334	3500.01	24.84	26.20	1.368	-0.19	0.074	0.101
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	633334	3500.01	24.84	26.20	1.368	0.19	0.483	0.661
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI9/14	633334	3500.01	20.22	21.20	1.253	0.02	0.348	0.436
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI9/14	633334	3500.01	20.16	21.20	1.271	0.05	0.329	0.418
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Front	15mm	-	DSI4	656000	3840	25.10	26.20	1.288	-0.06	0.027	0.035
81	N77_Ant 10	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI4	656000	3840	25.10	26.20	1.288	-0.09	0.723	0.931
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Front	15mm	-	DSI4	656000	3840	24.60	26.20	1.445	0.1	0.022	0.032
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI4	656000	3840	24.60	26.20	1.445	0.1	0.557	0.805
	N77_Ant 10	100M	QPSK	1	1	DFT-30	Back	15mm	-	DSI9/14	656000	3840	20.17	21.20	1.268	0.06	0.479	0.607
	N77_Ant 10	100M	QPSK	135	69	DFT-30	Back	15mm	-	DSI9/14	656000	3840	20.15	21.20	1.274	0.02	0.321	0.409

<5G NR SRS SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Duty Cycle %	Pmax	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Front	15mm	DSI4	633334	3500.01	20.54	14	20.2	0.18	0.076	0.010
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Back	15mm	DSI4	633334	3500.01	20.54	14	20.2	0.03	0.312	0.040
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Front	15mm	DSI4	633334	3500.01	20.27	14	20.2	0.05	0.097	0.013
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Back	15mm	DSI4	633334	3500.01	20.27	14	20.2	-0.12	0.483	0.067
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Front	15mm	DSI4	656000	3840	20.24	14	20.2	-0.17	0.187	0.026
	N77_Ant 6	100M	QPSK	1	1	DFT-30	Back	15mm	DSI4	656000	3840	20.24	14	20.2	-0.11	0.420	0.058
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Front	15mm	DSI4	656000	3840	19.73	14	20.2	0.06	0.143	0.022
	N77_Ant 6	100M	QPSK	135	69	DFT-30	Back	15mm	DSI4	656000	3840	19.73	14	20.2	-0.07	0.296	0.046
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Front	15mm	DSI4	633334	3500.01	22.51	14	22.7	0.11	0.199	0.029
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Back	15mm	DSI4	633334	3500.01	22.51	14	22.7	-0.02	0.377	0.055
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Front	15mm	DSI4	633334	3500.01	22.41	14	22.7	0.16	0.229	0.034
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Back	15mm	DSI4	633334	3500.01	22.41	14	22.7	-0.09	0.448	0.067
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Front	15mm	DSI4	656000	3840	22.47	14	22.7	0.19	0.075	0.011
	N77_Ant 13	100M	QPSK	1	1	DFT-30	Back	15mm	DSI4	656000	3840	22.47	14	22.7	-0.06	0.363	0.054
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Front	15mm	DSI4	656000	3840	22.46	14	22.7	0.08	0.100	0.015
	N77_Ant 13	100M	QPSK	135	69	DFT-30	Back	15mm	DSI4	656000	3840	22.46	14	22.7	0.19	0.559	0.083



<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 4	-	Standalone(Full)	39	2441	15.60	17.00	1.380	76.1	1.314	-0.12	0.063	0.114
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 4	-	Standalone(Full)	39	2441	15.60	17.00	1.380	76.1	1.314	-0.08	0.064	0.116
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 4	-	Standalone(Full)	0	2402	15.30	17.00	1.479	76.1	1.314	0.07	0.032	0.062
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 4	-	Standalone(Full)	78	2480	15.30	17.00	1.479	76.1	1.314	-0.02	0.030	0.058
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 4	-	Simultaneous	39	2441	9.40	10.00	1.148	76.1	1.314	-0.16	0.014	0.021
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 4	-	Simultaneous	39	2441	9.40	10.00	1.148	76.1	1.314	0.05	0.015	0.023
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 4	-	Simultaneous	0	2402	8.80	10.00	1.318	76.1	1.314	-0.19	0.009	0.016
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 4	-	Simultaneous	78	2480	9.20	10.00	1.202	76.1	1.314	-0.12	0.016	0.025
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 6	-	Standalone(Full)	39	2441	15.30	17.00	1.479	76.1	1.314	0.06	0.067	0.130
82	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	-	Standalone(Full)	39	2441	15.30	17.00	1.479	76.1	1.314	0.13	0.106	0.206
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	-	Standalone(Full)	0	2402	15.10	17.00	1.549	76.1	1.314	-0.02	0.033	0.067
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	-	Standalone(Full)	78	2480	15.20	17.00	1.514	76.1	1.314	-0.16	0.068	0.135
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 6	-	Simultaneous	39	2441	10.80	12.00	1.318	76.1	1.314	0.12	0.017	0.029
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	-	Simultaneous	39	2441	10.80	12.00	1.318	76.1	1.314	0	0.032	0.055
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	-	Simultaneous	0	2402	10.40	12.00	1.445	76.1	1.314	-0.03	0.030	0.057
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	-	Simultaneous	78	2480	10.00	12.00	1.585	76.1	1.314	0.18	0.029	0.060

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 4+6	-	Standalone(Full)	6	2437	20.56	22.00	1.393	100	1.000	0.16	0.255	0.355
83	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4+6	-	Standalone(Full)	6	2437	20.56	22.00	1.393	100	1.000	-0.05	0.442	0.616
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4+6	-	Standalone(Full)	1	2412	20.46	22.00	1.426	100	1.000	0.19	0.386	0.550
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4+6	-	Standalone(Full)	11	2462	20.41	22.00	1.442	100	1.000	0.04	0.395	0.570
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 4+6	-	Simultaneous	6	2437	17.11	18.50	1.377	100	1.000	0.09	0.103	0.142
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4+6	-	Simultaneous	6	2437	17.11	18.50	1.377	100	1.000	-0.07	0.251	0.346
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4+6	-	Simultaneous	1	2412	16.96	18.50	1.426	100	1.000	-0.13	0.158	0.225
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4+6	-	Simultaneous	11	2462	17.01	18.50	1.409	100	1.000	0.15	0.159	0.224

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 13+9	-	Full	54	5270	20.54	22.00	1.400	100	1.000	0.04	0.122	0.171
84	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 13+9	-	Full	54	5270	20.54	22.00	1.400	100	1.000	0.02	0.229	0.321
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 13+9	-	Full	62	5310	19.54	21.00	1.400	100	1.000	0.02	0.215	0.301
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 13+9	-	Full	122	5610	20.42	22.00	1.439	100	1.000	0.01	0.084	0.121
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 13+9	-	Full	122	5610	20.42	22.00	1.439	100	1.000	0.13	0.096	0.138
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 13+9	-	Full	106	5530	20.49	22.00	1.416	100	1.000	0.03	0.105	0.149
85	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 13+9	-	Full	106	5530	20.49	22.00	1.416	100	1.000	0.02	0.110	0.156
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 13+9	-	Full	155	5775	20.25	22.00	1.496	100	1.000	-0.03	0.041	0.061
86	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 13+9	-	Full	155	5775	20.25	22.00	1.496	100	1.000	0.01	0.058	0.086

**18.4 Product Specific SAR****<WCDMA SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI4	1413	1732.6	23.88	24.80	1.236	0.08	1.280	1.582
	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI4	1312	1712.4	23.79	24.80	1.262	0.03	1.230	1.552
87	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI4	1513	1752.6	23.87	24.80	1.239	-0.12	1.430	1.771
	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI9/14	1413	1732.6	20.09	21.00	1.233	0.01	1.060	1.307
	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI9/14	1312	1712.4	19.94	21.00	1.276	-0.05	0.998	1.274
	WCDMA IV_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI9/14	1513	1752.6	20.08	21.00	1.236	0.16	1.100	1.360
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	0mm	DSI1	9400	1880	21.12	21.80	1.169	0.02	1.280	1.497
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	0mm	DSI1	9262	1852.4	20.99	21.80	1.205	0.06	1.230	1.482
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	0mm	DSI1	9538	1907.6	20.99	21.80	1.205	0.17	1.430	1.723
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	8mm	DSI4	9538	1907.6	23.78	24.80	1.265	0.02	0.655	0.828
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	0mm	DSI6/11	9400	1880	20.17	20.80	1.156	-0.04	1.060	1.225
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	0mm	DSI6/11	9262	1852.4	20.03	20.80	1.194	-0.15	0.998	1.192
	WCDMA II_ANT 2	RMC 12.2Kbps	Left Side	0mm	DSI6/11	9538	1907.6	20.09	20.80	1.178	0.15	1.100	1.295
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI4	9400	1880	23.80	24.80	1.259	-0.09	1.770	2.228
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI4	9262	1852.4	23.65	24.80	1.303	0.17	1.560	2.033
88	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI4	9538	1907.6	23.68	24.80	1.294	0.01	1.900	2.459
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI9/14	9400	1880	19.77	20.80	1.268	-0.16	1.490	1.889
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI9/14	9262	1852.4	19.61	20.80	1.315	-0.01	1.450	1.907
	WCDMA II_ANT 3	RMC 12.2Kbps	Bottom Side	0mm	DSI9/14	9538	1907.6	19.64	20.80	1.306	0.12	1.530	1.998

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI4	132322	1745	23.92	24.80	1.225	0.1	1.370	1.678
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI4	132072	1720	23.72	24.80	1.282	0.13	1.090	1.398
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI4	132572	1770	23.75	24.80	1.274	0.19	1.210	1.541
	LTE Band 66_ANT 3	20M	QPSK	50	0	Bottom Side	0mm	DSI4	132322	1745	22.89	23.80	1.233	0.15	1.170	1.443
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI9/14	132322	1745	20.32	21.30	1.253	-0.11	0.992	1.243
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI9/14	132072	1720	20.30	21.30	1.259	0.18	0.932	1.173
	LTE Band 66_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI9/14	132572	1770	20.27	21.30	1.268	0.14	1.040	1.318
	LTE Band 66_ANT 3	20M	QPSK	50	0	Bottom Side	0mm	DSI9/14	132322	1745	20.31	21.30	1.256	0.12	0.950	1.193
89	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	0mm	DSI4	132322	1745	23.95	24.80	1.216	-0.02	2.090	2.542
	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	0mm	DSI4	132072	1720	23.91	24.80	1.227	-0.05	1.760	2.160
	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	0mm	DSI4	132572	1770	23.88	24.80	1.236	0.16	1.830	2.262
	LTE Band 66_ANT 5	20M	QPSK	1	0	Back	0mm	DSI1	132322	1745	21.21	21.80	1.146	0.16	1.610	1.844
	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	0mm	DSI1	132322	1745	21.21	21.80	1.146	-0.05	1.970	2.257
	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	0mm	DSI1	132072	1720	21.18	21.80	1.153	0.03	2.180	2.515
	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	0mm	DSI1	132572	1770	21.15	21.80	1.161	0.13	1.920	2.230
	LTE Band 66_ANT 5	20M	QPSK	1	0	Back	12mm	DSI4	132322	1745	23.95	24.80	1.216	0.14	0.490	0.596
	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	8mm	DSI4	132072	1720	23.91	24.80	1.227	-0.06	0.667	0.819
	LTE Band 66_ANT 5	20M	QPSK	50	0	Front	0mm	DSI4	132322	1745	22.86	23.80	1.242	0.04	2.000	2.483
	LTE Band 66_ANT 5	20M	QPSK	50	0	Front	0mm	DSI4	132072	1720	22.85	23.80	1.245	0	1.730	2.153
	LTE Band 66_ANT 5	20M	QPSK	50	0	Front	0mm	DSI4	132572	1770	22.83	23.80	1.250	-0.02	1.760	2.200
	LTE Band 66_ANT 5	20M	QPSK	50	0	Back	0mm	DSI1	132322	1745	21.16	21.80	1.159	-0.05	1.720	1.993
	LTE Band 66_ANT 5	20M	QPSK	50	0	Top Side	0mm	DSI1	132322	1745	21.16	21.80	1.159	-0.07	1.800	2.086
	LTE Band 66_ANT 5	20M	QPSK	50	0	Top Side	0mm	DSI1	132072	1720	21.14	21.80	1.164	0.07	2.130	2.480
	LTE Band 66_ANT 5	20M	QPSK	50	0	Top Side	0mm	DSI1	132572	1770	21.15	21.80	1.161	-0.12	1.910	2.218
	LTE Band 66_ANT 5	20M	QPSK	50	0	Back	12mm	DSI4	132322	1745	22.86	23.80	1.242	0.01	0.346	0.430
	LTE Band 66_ANT 5	20M	QPSK	100	0	Front	0mm	DSI4	132322	1745	22.84	23.80	1.247	0.01	1.950	2.432
	LTE Band 66_ANT 5	20M	QPSK	100	0	Top Side	0mm	DSI1	132322	1745	21.15	21.80	1.161	0.03	1.910	2.218



FCC SAR TEST REPORT

Report No. : FA101920

	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	0mm	DSI9/14	132322	1745	19.65	20.30	1.161	-0.07	1.490	1.731
	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	0mm	DSI9/14	132072	1720	19.62	20.30	1.169	0.02	1.330	1.555
	LTE Band 66_ANT 5	20M	QPSK	1	0	Front	0mm	DSI9/14	132572	1770	19.61	20.30	1.172	0.09	1.360	1.594
	LTE Band 66_ANT 5	20M	QPSK	1	0	Back	0mm	DSI6/11	132322	1745	19.65	20.30	1.161	-0.1	1.150	1.336
	LTE Band 66_ANT 5	20M	QPSK	1	0	Top Side	0mm	DSI6/11	132322	1745	19.65	20.30	1.161	0.19	0.988	1.148
	LTE Band 66_ANT 5	20M	QPSK	50	0	Front	0mm	DSI9/14	132322	1745	19.62	20.30	1.169	0.06	1.310	1.532
	LTE Band 66_ANT 5	20M	QPSK	50	0	Back	0mm	DSI6/11	132322	1745	19.62	20.30	1.169	-0.05	1.020	1.193
	LTE Band 66_ANT 5	20M	QPSK	50	0	Top Side	0mm	DSI6/11	132322	1745	19.62	20.30	1.169	-0.13	0.953	1.115
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI1	26340	1880	21.20	22.00	1.202	-0.05	1.350	1.623
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI1	26140	1860	21.02	22.00	1.253	-0.06	1.270	1.591
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI1	26590	1905	21.19	22.00	1.205	0.02	1.710	2.061
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	8mm	DSI4	26590	1905	24.03	24.80	1.194	0.07	0.632	0.755
	LTE Band 25_ANT 2	20M	QPSK	50	0	Left Side	0mm	DSI1	26340	1880	21.06	22.00	1.242	0.06	1.520	1.887
	LTE Band 25_ANT 2	20M	QPSK	100	0	Left Side	0mm	DSI1	26340	1880	21.05	22.00	1.245	-0.15	1.320	1.643
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI6/11	26340	1880	20.41	21.00	1.146	-0.17	1.210	1.386
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI6/11	26140	1860	20.26	21.00	1.186	0.01	1.070	1.269
	LTE Band 25_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI6/11	26590	1905	20.26	21.00	1.186	-0.04	1.220	1.447
	LTE Band 25_ANT 2	20M	QPSK	50	0	Left Side	0mm	DSI6/11	26340	1880	20.27	21.00	1.183	0.01	1.170	1.384
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI4	26340	1880	23.74	24.80	1.276	-0.1	1.670	2.132
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI4	26140	1860	23.57	24.80	1.327	-0.18	1.540	2.044
90	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI4	26590	1905	23.62	24.80	1.312	-0.17	1.700	2.231
	LTE Band 25_ANT 3	20M	QPSK	50	0	Bottom Side	0mm	DSI4	26340	1880	22.77	23.80	1.268	-0.04	1.730	2.193
	LTE Band 25_ANT 3	20M	QPSK	50	0	Bottom Side	0mm	DSI4	26140	1860	22.71	23.80	1.285	-0.11	1.600	2.056
	LTE Band 25_ANT 3	20M	QPSK	50	0	Bottom Side	0mm	DSI4	26590	1905	22.74	23.80	1.276	0.17	1.630	2.081
	LTE Band 25_ANT 3	20M	QPSK	100	0	Bottom Side	0mm	DSI4	26340	1880	22.75	23.80	1.274	0.05	1.650	2.101
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI9/14	26340	1880	20.08	21.30	1.324	0.15	1.420	1.881
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI9/14	26140	1860	20.02	21.30	1.343	-0.05	1.380	1.853
	LTE Band 25_ANT 3	20M	QPSK	1	0	Bottom Side	0mm	DSI9/14	26590	1905	20.06	21.30	1.330	-0.13	1.460	1.942
	LTE Band 25_ANT 3	20M	QPSK	50	0	Bottom Side	0mm	DSI9/14	26340	1880	20.05	21.30	1.334	-0.06	1.380	1.840
	LTE Band 30_ANT 3	10M	QPSK	1	0	Bottom Side	0mm	DSI4	27710	2310	23.59	24.80	1.321	0.02	1.850	2.444
91	LTE Band 30_ANT 3	10M	QPSK	25	0	Bottom Side	0mm	DSI4	27710	2310	22.50	23.80	1.349	0.06	1.860	2.509
	LTE Band 30_ANT 3	10M	QPSK	50	0	Bottom Side	0mm	DSI4	27710	2310	22.30	23.80	1.413	0.1	1.700	2.401
	LTE Band 30_ANT 3	10M	QPSK	1	0	Bottom Side	0mm	DSI9/14	27710	2310	19.41	20.80	1.377	0.16	1.350	1.859
	LTE Band 30_ANT 3	10M	QPSK	25	0	Bottom Side	0mm	DSI9/14	27710	2310	19.38	20.80	1.387	-0.08	1.260	1.747
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI1	21100	2535	20.52	21.50	1.253	-0.09	1.720	2.155
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI1	20850	2510	20.40	21.50	1.288	0.05	1.590	2.048
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI1	21350	2560	20.41	21.50	1.285	-0.02	1.650	2.121
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	8mm	DSI4	21100	2535	23.50	24.00	1.122	0.05	0.552	0.619
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Side	0mm	DSI1	21100	2535	20.50	21.50	1.259	-0.13	1.870	2.354
	LTE Band 7C_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI1	21100+21298	2535+2554.8	20.37	21.50	1.297	0.09	1.710	2.218
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Side	0mm	DSI1	20850	2510	20.35	21.50	1.303	0.13	1.620	2.111
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Side	0mm	DSI1	21350	2560	20.31	21.50	1.315	-0.08	1.660	2.183
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Side	8mm	DSI4	21100	2535	22.66	23.00	1.081	0.02	0.497	0.537
	LTE Band 7_ANT 2	20M	QPSK	100	0	Left Side	0mm	DSI1	21100	2535	20.33	21.50	1.309	-0.16	1.700	2.226
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI6/11	21100	2535	20.16	21.00	1.213	-0.02	1.570	1.905
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI6/11	20850	2510	19.91	21.00	1.285	0.15	1.500	1.928
	LTE Band 7C_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI6/11	20850+21048	2510+2529.8	20.00	21.00	1.259	0.03	1.490	1.876
	LTE Band 7_ANT 2	20M	QPSK	1	0	Left Side	0mm	DSI6/11	21350	2560	20.09	21.00	1.233	0.08	1.470	1.813
	LTE Band 7_ANT 2	20M	QPSK	50	0	Left Side	0mm	DSI6/11	21100	2535	20.12	21.00	1.225	-0.11	1.530	1.874
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	0mm	DSI1	21100	2535	19.85	21.30	1.396	0.11	0.983	1.373
	LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	0mm	DSI1	21100	2535	19.85	21.30	1.396	0.05	1.610	2.248
92	LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	0mm	DSI1	20850	2510	19.84	21.30	1.400	-0.18	1.910	2.673
	LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	0mm	DSI1	21350	2560	19.84	21.30	1.400	0.12	1.710	2.393
	LTE Band 7_ANT 5	20M	QPSK	1	0	Back	12mm	DSI4	21100	2535	23.02	24.80	1.507	0.16	0.246	0.371
	LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	8mm	DSI4	20850	2510	22.98	24.80	1.521	0.08	1.330	2.022
	LTE Band 7_ANT 5	20M	QPSK	50	0	Back	0mm	DSI1	21100	2535	19.82	21.30	1.406	-0.13	0.856	1.204



FCC SAR TEST REPORT

Report No. : FA1O1920

LTE Band 7_ANT 5	20M	QPSK	50	0	Top Side	0mm	DS11	21100	2535	19.82	21.30	1.406	-0.02	1.490	2.095
LTE Band 7_ANT 5	20M	QPSK	50	0	Top Side	0mm	DS11	20850	2510	19.76	21.30	1.426	-0.09	1.870	2.666
LTE Band 7_ANT 5	20M	QPSK	50	0	Top Side	0mm	DS11	21350	2560	19.80	21.30	1.413	-0.11	1.690	2.387
LTE Band 7_ANT 5	20M	QPSK	100	0	Top Side	0mm	DS11	21100	2535	19.81	21.30	1.409	0.09	1.670	2.354
LTE Band 7_ANT 5	20M	QPSK	1	0	Back	0mm	DS16/11	21100	2535	18.25	19.80	1.429	-0.11	0.637	0.910
LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	0mm	DS16/11	21100	2535	18.25	19.80	1.429	0.18	1.080	1.543
LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	0mm	DS16/11	20850	2510	18.19	19.80	1.449	0.05	1.010	1.463
LTE Band 7_ANT 5	20M	QPSK	1	0	Top Side	0mm	DS16/11	21350	2560	18.19	19.80	1.449	-0.03	1.030	1.492
LTE Band 7_ANT 5	20M	QPSK	50	0	Back	0mm	DS16/11	21100	2535	18.23	19.80	1.435	-0.01	0.628	0.901
LTE Band 7_ANT 5	20M	QPSK	50	0	Top Side	0mm	DS16/11	21100	2535	18.23	19.80	1.435	0.15	1.043	1.497



FCC SAR TEST REPORT

Report No. : FA101920

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS11	40185	2549.5	23.94	24.60	1.164	42.9	1.009	-0.1	1.450	1.703
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS11	39750	2506	23.89	24.60	1.178	42.9	1.009	-0.1	1.120	1.331
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS11	40620	2593	23.82	24.60	1.197	42.9	1.009	-0.06	1.780	2.149
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS11	41055	2636.5	23.64	24.60	1.247	42.9	1.009	-0.16	1.440	1.812
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS11	41490	2680	23.70	24.60	1.230	42.9	1.009	0.15	1.560	1.936
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	8mm	DS14	40620	2593	25.49	26.80	1.352	42.9	1.009	-0.06	0.535	0.730
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	0mm	DS11	40185	2549.5	23.89	24.60	1.178	42.9	1.009	-0.12	1.330	1.580
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	0mm	DS11	39750	2506	23.87	24.60	1.183	42.9	1.009	-0.19	1.810	2.161
93	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	0mm	DS11	40620	2593	23.79	24.60	1.205	42.9	1.009	-0.16	2.010	2.444
	LTE Band 41C(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS11	40620+40422	2593+2573.2	23.62	24.60	1.253	42.9	1.009	0.08	1.710	2.162
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	0mm	DS11	41055	2636.5	23.58	24.60	1.265	42.9	1.009	-0.17	1.420	1.812
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	0mm	DS11	41490	2680	23.65	24.60	1.245	42.9	1.009	-0.03	1.740	2.185
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	8mm	DS14	40620	2593	24.47	25.80	1.358	42.9	1.009	0.08	0.411	0.563
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	100	0	Left Side	0mm	DS11	40185	2549.5	23.83	24.60	1.194	42.9	1.009	0.03	1.980	2.385
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS16/11	40185	2549.5	21.49	22.60	1.291	42.9	1.009	0.14	1.020	1.329
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS16/11	39750	2506	21.44	22.60	1.306	42.9	1.009	0.16	0.926	1.220
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS16/11	40620	2593	21.37	22.60	1.327	42.9	1.009	-0.18	1.130	1.513
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS16/11	41055	2636.5	21.19	22.60	1.384	42.9	1.009	0.13	1.110	1.550
	LTE Band 41C(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS16/11	41055+40857	2636.5+2616.7	21.36	22.60	1.330	42.9	1.009	0.16	1.030	1.383
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	1	0	Left Side	0mm	DS16/11	41490	2680	21.25	22.60	1.365	42.9	1.009	-0.04	1.120	1.542
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	50	0	Left Side	0mm	DS16/11	40185	2549.5	21.44	22.60	1.306	42.9	1.009	0.03	0.972	1.281
	LTE Band 41(HPUE)_ANT 2	20M	QPSK	100	0	Left Side	0mm	DS16/11	40185	2549.5	21.38	22.60	1.324	42.9	1.009	0.07	1.000	1.336
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS11	55830	3609	19.82	20.30	1.117	62.9	1.006	-0.03	2.150	2.416
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS11	55340	3560	19.68	20.30	1.153	62.9	1.006	-0.11	2.120	2.460
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS11	56150	3641	19.69	20.30	1.151	62.9	1.006	0.09	2.230	2.582
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS11	56640	3690	19.70	20.30	1.148	62.9	1.006	-0.1	1.860	2.148
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	12mm	DS14	56150	3641	24.18	24.80	1.153	62.9	1.006	0.02	0.315	0.366
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS11	55830	3609	19.80	20.30	1.122	62.9	1.006	-0.03	2.310	2.607
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS11	55340	3560	19.66	20.30	1.159	62.9	1.006	0.08	2.190	2.553
94	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS11	56150	3641	19.68	20.30	1.153	62.9	1.006	0.04	2.360	2.738
	LTE Band 48C_ANT 10	20M	QPSK	50	0	Back	0mm	DS11	56150+55952	3641+3621.2	19.00	20.30	1.349	62.9	1.006	0.01	2.000	2.714
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS11	56640	3690	19.67	20.30	1.156	62.9	1.006	-0.19	2.300	2.675
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	12mm	DS14	56150	3641	23.26	23.80	1.132	62.9	1.006	0.06	0.269	0.306
	LTE Band 48_ANT 10	20M	QPSK	100	0	Back	0mm	DS11	55830	3609	19.75	20.30	1.135	62.9	1.006	0.09	2.310	2.638
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS16/11	55830	3609	18.39	18.80	1.099	62.9	1.006	0.01	1.690	1.868
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS16/11	55340	3560	18.30	18.80	1.122	62.9	1.006	0.02	1.660	1.874
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS16/11	56150	3641	18.35	18.80	1.109	62.9	1.006	-0.08	1.710	1.908
	LTE Band 48_ANT 10	20M	QPSK	1	0	Back	0mm	DS16/11	56640	3690	18.36	18.80	1.107	62.9	1.006	0.11	1.760	1.959
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS16/11	55830	3609	18.37	18.80	1.104	62.9	1.006	-0.05	1.710	1.899
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS16/11	55340	3560	18.29	18.80	1.125	62.9	1.006	-0.07	1.750	1.980
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS16/11	56150	3641	18.34	18.80	1.112	62.9	1.006	0.11	1.780	1.991
	LTE Band 48C_ANT 10	20M	QPSK	50	0	Back	0mm	DS16/11	56150+55952	3641+3621.2	17.58	18.80	1.324	62.9	1.006	0.12	1.480	1.972
	LTE Band 48_ANT 10	20M	QPSK	50	0	Back	0mm	DS16/11	56640	3690	18.33	18.80	1.114	62.9	1.006	0.01	1.770	1.984
	LTE Band 48_ANT 10	20M	QPSK	100	0	Back	0mm	DS16/11	55830	3609	18.37	18.80	1.104	62.9	1.006	0.06	1.660	1.844



FCC SAR TEST REPORT

Report No. : FA101920

<5GNR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
95	N66_Ant 3	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI4	349000	1745	24.20	25.20	1.259	0.01	2.140	2.694
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	DSI4	349000	1745	24.18	25.20	1.265	0.02	1.860	2.352
	N66_Ant 3	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	DSI4	349000	1745	23.13	24.20	1.279	0.02	2.070	2.648
	N66_Ant 3	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI9/14	349000	1745	21.38	22.20	1.208	-0.02	1.390	1.679
	N66_Ant 3	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	DSI9/14	349000	1745	21.29	22.20	1.233	-0.16	1.320	1.628
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Front	0mm	DSI4	349000	1745	23.88	25.20	1.355	0.09	1.870	2.534
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Back	0mm	DSI1	349000	1745	20.01	21.20	1.315	-0.09	1.410	1.854
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Top Side	0mm	DSI1	349000	1745	20.01	21.20	1.315	-0.11	1.560	2.052
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Back	12mm	DSI4	349000	1745	23.88	25.20	1.355	0.02	0.305	0.413
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Top Side	8mm	DSI4	349000	1745	23.88	25.20	1.355	0.06	0.668	0.905
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Front	0mm	DSI4	349000	1745	23.86	25.20	1.361	-0.08	1.860	2.532
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Back	0mm	DSI1	349000	1745	19.92	21.20	1.343	-0.01	1.210	1.625
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Top Side	0mm	DSI1	349000	1745	19.92	21.20	1.343	0.17	1.770	2.377
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Back	12mm	DSI4	349000	1745	23.86	25.20	1.361	0.03	0.301	0.410
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Top Side	8mm	DSI4	349000	1745	23.86	25.20	1.361	-0.11	0.679	0.924
	N66_Ant 5	40M	QPSK	216	0	DFT-15	Front	0mm	DSI4	349000	1745	22.90	24.20	1.349	-0.13	1.830	2.469
	N66_Ant 5	40M	QPSK	216	0	DFT-15	Top Side	0mm	DSI1	349000	1745	19.89	21.20	1.352	0.04	1.470	1.988
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Front	0mm	DSI9/14	349000	1745	18.99	20.20	1.321	0.06	1.240	1.638
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Back	0mm	DSI6/11	349000	1745	18.99	20.20	1.321	0.01	1.190	1.572
	N66_Ant 5	40M	QPSK	1	1	DFT-15	Top Side	0mm	DSI6/11	349000	1745	18.99	20.20	1.321	-0.14	1.210	1.599
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Front	0mm	DSI9/14	349000	1745	18.93	20.20	1.340	0.02	1.180	1.581
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Back	0mm	DSI6/11	349000	1745	18.93	20.20	1.340	0.08	1.040	1.393
	N66_Ant 5	40M	QPSK	108	54	DFT-15	Top Side	0mm	DSI6/11	349000	1745	18.93	20.20	1.340	0.04	1.190	1.594
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI4	376500	1882.5	24.20	25.20	1.259	0.06	1.900	2.392
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	DSI4	376500	1882.5	24.05	25.20	1.303	0.05	1.650	2.150
	N25_Ant 3	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	DSI4	376500	1882.5	23.50	24.20	1.175	0.05	1.840	2.162
	N25_Ant 3	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI9/14	376500	1882.5	20.14	21.20	1.276	-0.1	1.440	1.838
	N25_Ant 3	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	DSI9/14	376500	1882.5	20.11	21.20	1.285	-0.12	1.390	1.787
96	N25_Ant 2	40M	QPSK	1	1	DFT-15	Left Side	0mm	DSI1	376500	1882.5	21.19	22.20	1.262	-0.03	2.070	2.612
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Left Side	8mm	DSI4	376500	1882.5	24.10	25.20	1.288	0.03	0.479	0.617
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Left Side	0mm	DSI1	376500	1882.5	21.13	22.20	1.279	0.07	1.820	2.328
	N25_Ant 2	40M	QPSK	216	0	DFT-15	Left Side	0mm	DSI1	376500	1882.5	21.12	22.20	1.282	0.01	1.770	2.270
	N25_Ant 2	40M	QPSK	1	1	DFT-15	Left Side	0mm	DSI6/11	376500	1882.5	19.80	20.70	1.230	0.07	1.540	1.895
	N25_Ant 2	40M	QPSK	108	54	DFT-15	Left Side	0mm	DSI6/11	376500	1882.5	19.65	20.70	1.274	-0.05	1.560	1.987
97	N30_Ant 3	10M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI4	462000	2310	24.11	25.20	1.285	0.06	2.000	2.571
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Bottom Side	0mm	DSI4	462000	2310	24.09	25.20	1.291	-0.13	1.780	2.298
	N30_Ant 3	10M	QPSK	50	0	DFT-15	Bottom Side	0mm	DSI4	462000	2310	22.60	24.20	1.445	0.06	1.740	2.515
	N30_Ant 3	10M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI9/14	462000	2310	18.68	19.70	1.265	0.06	1.422	1.798
	N30_Ant 3	10M	QPSK	25	14	DFT-15	Bottom Side	0mm	DSI9/14	462000	2310	18.61	19.70	1.285	-0.12	1.258	1.617
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI4	507000	2535	23.10	24.20	1.288	0.04	1.780	2.293
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI4	502000	2510	23.05	24.20	1.303	0.06	1.400	1.824
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI4	512000	2560	23.03	24.20	1.309	0.01	1.390	1.820
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	DSI4	507000	2535	23.00	24.20	1.318	0.08	1.910	2.518
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	DSI4	502000	2510	22.96	24.20	1.330	0.03	1.430	1.903
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	DSI4	512000	2560	22.93	24.20	1.340	-0.06	1.500	2.010
	N7_Ant 3	20M	QPSK	100	0	DFT-15	Bottom Side	0mm	DSI4	507000	2535	23.03	24.20	1.309	-0.05	1.850	2.422
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI9/14	507000	2535	17.55	18.70	1.303	0.01	1.210	1.577
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI9/14	502000	2510	17.53	18.70	1.309	0.03	1.070	1.401
	N7_Ant 3	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	DSI9/14	512000	2560	17.49	18.70	1.321	-0.05	1.030	1.361
	N7_Ant 3	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	DSI9/14	507000	2535	17.49	18.70	1.321	0.05	1.120	1.480
98	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	0mm	DSI1	507000	2535	19.61	20.70	1.285	0.12	2.000	2.571
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	0mm	DSI1	502000	2510	19.52	20.70	1.312	0.02	1.750	2.296



FCC SAR TEST REPORT

Report No. : FA101920

	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	0mm	DSI1	512000	2560	19.51	20.70	1.315	0.06	1.660	2.183
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	8mm	DSI4	507000	2535	23.04	24.20	1.306	-0.02	0.569	0.743
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Left Side	0mm	DSI1	507000	2535	19.52	20.70	1.312	0.04	1.920	2.519
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Left Side	0mm	DSI1	502000	2510	19.49	20.70	1.321	-0.16	1.710	2.259
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Left Side	0mm	DSI1	512000	2560	19.40	20.70	1.349	-0.07	1.830	2.469
	N7_Ant 2	20M	QPSK	100	0	DFT-15	Left Side	0mm	DSI1	507000	2535	19.50	20.70	1.318	0.07	1.900	2.505
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	0mm	DSI6/11	507000	2535	18.11	19.20	1.285	0.09	1.380	1.774
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	0mm	DSI6/11	502000	2510	17.87	19.20	1.358	0.02	1.210	1.644
	N7_Ant 2	20M	QPSK	1	1	DFT-15	Left Side	0mm	DSI6/11	512000	2560	17.80	19.20	1.380	-0.05	1.270	1.753
	N7_Ant 2	20M	QPSK	50	28	DFT-15	Left Side	0mm	DSI6/11	507000	2535	17.96	19.20	1.330	-0.04	1.310	1.743
	N41(PC3)_Ant 3	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	23.13	24.20	1.279	-0.07	0.957	1.224
	N41(PC3)_Ant 3	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	23.00	24.20	1.318	0.11	0.887	1.169
	N41(PC3)_Ant 3	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	22.08	23.20	1.294	-0.01	0.890	1.152
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.72	20.70	1.253	0.06	2.160	2.707
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	8mm	DSI4	518598	2592.99	23.35	24.20	1.216	0.05	0.615	0.748
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.60	20.70	1.288	-0.17	2.130	2.744
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	8mm	DSI4	518598	2592.99	22.93	24.20	1.340	0.05	0.621	0.832
	N41(PC3)_Ant 2	100M	QPSK	270	0	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.56	20.70	1.300	-0.12	2.020	2.626
	N41(PC3)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	0mm	DSI6/11	518598	2592.99	18.23	19.20	1.250	0.11	1.580	1.975
	N41(PC3)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	0mm	DSI6/11	518598	2592.99	18.10	19.20	1.288	-0.14	1.550	1.997
	N41(PC2)_Ant 2	100M	QPSK	270	0	DFT-30	Left Side	0mm	DSI6/11	518598	2592.99	18.04	19.20	1.306	0.03	1.570	2.051
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Front	0mm	DSI4	518598	2592.99	25.58	27.20	1.452	-0.09	0.653	0.948
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	25.58	27.20	1.452	-0.07	0.957	1.390
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Back	0mm	DSI2/7/12	518598	2592.99	15.81	17.20	1.377	0.16	0.743	1.023
	N41(PC2)_Ant 3	100M	QPSK	1	1	DFT-30	Back	8mm	DSI4	518598	2592.99	25.58	27.20	1.452	-0.06	0.088	0.128
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Front	0mm	DSI4	518598	2592.99	24.82	26.20	1.374	-0.13	0.721	0.991
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	24.82	26.20	1.374	0.11	0.887	1.219
	N41(PC2)_Ant 3	100M	QPSK	135	69	DFT-30	Back	0mm	DSI2/7/12	518598	2592.99	15.76	17.20	1.393	-0.12	0.698	0.972
	N41(PC2)_Ant 3	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	23.52	25.20	1.472	-0.01	0.890	1.310
	N41(PC2)_Ant 3	100M	QPSK	270	0	DFT-30	Back	0mm	DSI2/7/12	518598	2592.99	15.64	17.20	1.432	-0.1	0.711	1.018
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Back	0mm	DSI1	518598	2592.99	19.72	20.70	1.253	0.05	1.210	1.516
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.72	20.70	1.253	0.06	2.160	2.707
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Back	12mm	DSI4	518598	2592.99	26.21	27.20	1.256	0.06	0.228	0.286
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	8mm	DSI4	518598	2592.99	26.21	27.20	1.256	-0.05	1.050	1.319
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Back	0mm	DSI1	518598	2592.99	19.60	20.70	1.288	0.04	1.230	1.585
99	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.60	20.70	1.288	-0.17	2.130	2.744
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Back	12mm	DSI4	518598	2592.99	26.21	27.20	1.256	0.01	0.237	0.298
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	8mm	DSI4	518598	2592.99	26.21	27.20	1.256	0.08	1.060	1.331
	N41(PC2)_Ant 2	100M	QPSK	270	0	DFT-30	Back	0mm	DSI1	518598	2592.99	19.56	20.70	1.300	0.03	1.130	1.469
	N41(PC2)_Ant 2	100M	QPSK	270	0	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.56	20.70	1.300	-0.12	2.020	2.626
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Back	0mm	DSI6/11	518598	2592.99	18.23	19.20	1.250	0.15	0.986	1.233
	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	0mm	DSI6/11	518598	2592.99	18.23	19.20	1.250	0.11	1.580	1.975
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Back	0mm	DSI6/11	518598	2592.99	18.10	19.20	1.288	-0.15	0.956	1.232
	N41(PC2)_Ant 2	100M	QPSK	135	69	DFT-30	Left Side	0mm	DSI6/11	518598	2592.99	18.10	19.20	1.288	-0.14	1.550	1.997
	N41(PC2)_Ant 2	100M	QPSK	270	0	DFT-30	Left Side	0mm	DSI6/11	518598	2592.99	18.04	19.20	1.306	0.03	1.570	2.051
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Front	0mm	DSI4	518598	2592.99	25.16	26.20	1.271	-0.05	1.090	1.385
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Back	0mm	DSI1/6/11	518598	2592.99	17.41	18.70	1.346	-0.16	0.546	0.735
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	0mm	DSI1/6/11	518598	2592.99	17.41	18.70	1.346	-0.17	0.937	1.261
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Back	12mm	DSI4	518598	2592.99	25.16	26.20	1.271	0.09	0.160	0.203
	N41(PC2)_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	8mm	DSI4	518598	2592.99	25.16	26.20	1.271	0.01	0.490	0.623
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Front	0mm	DSI4	518598	2592.99	24.13	25.20	1.279	0.04	1.180	1.510
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Back	0mm	DSI1/6/11	518598	2592.99	17.38	18.70	1.355	0.1	0.708	0.959
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI1/6/11	518598	2592.99	17.38	18.70	1.355	0.15	0.868	1.176
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Back	12mm	DSI4	518598	2592.99	24.13	25.20	1.279	0.06	0.165	0.211
	N41(PC2)_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	8mm	DSI4	518598	2592.99	24.13	25.20	1.279	-0.02	0.481	0.615
	N41(PC2)_Ant 5	100M	QPSK	270	0	DFT-30	Front	0mm	DSI4/9/14	518598	2592.99	24.25	25.20	1.245	0.06	0.807	1.004



FCC SAR TEST REPORT

Report No. : FA101920

	N41(UL MIMO)_Ant 3	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	23.13	24.20	1.279	-0.07	0.957	1.224
	N41(UL MIMO)_Ant 3	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	23.00	24.20	1.318	0.11	0.887	1.169
	N41(UL MIMO)_Ant 3	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	DSI4	518598	2592.99	22.08	23.20	1.294	-0.01	0.890	1.152
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	0mm	DSI1/6/11	518598	2592.99	17.41	18.70	1.346	-0.17	0.937	1.261
	N41(UL MIMO)_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	8mm	DSI4	518598	2592.99	22.98	24.20	1.324	0.01	0.490	0.649
	N41(UL MIMO)_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI1/6/11	518598	2592.99	17.38	18.70	1.355	0.15	0.868	1.176
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Front	0mm	DSI4	633334	3500.01	25.87	26.70	1.211	0.03	1.440	1.743
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	0mm	DSI1	633334	3500.01	18.79	19.70	1.233	-0.17	1.450	1.788
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	0mm	DSI1	633334	3500.01	18.79	19.70	1.233	-0.05	1.980	2.442
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	12mm	DSI4	633334	3500.01	25.87	26.70	1.211	0.06	0.135	0.163
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	8mm	DSI4	633334	3500.01	25.87	26.70	1.211	0.02	0.410	0.496
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Front	0mm	DSI4	633334	3500.01	25.80	26.70	1.230	0.03	1.470	1.808
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	0mm	DSI1	633334	3500.01	18.77	19.70	1.239	-0.17	1.460	1.809
101	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI1	633334	3500.01	18.77	19.70	1.239	-0.05	2.170	2.688
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	12mm	DSI4	633334	3500.01	25.80	26.70	1.230	0.03	0.131	0.161
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	8mm	DSI4	633334	3500.01	25.80	26.70	1.230	-0.08	0.339	0.417
	N77_Ant 5	100M	QPSK	270	0	DFT-30	Front	0mm	DSI4	633334	3500.01	25.28	25.70	1.102	0.03	1.420	1.564
	N77_Ant 5	100M	QPSK	270	0	DFT-30	Back	0mm	DSI1	633334	3500.01	18.67	19.70	1.268	-0.17	1.510	1.914
	N77_Ant 5	100M	QPSK	270	0	DFT-30	Top Side	0mm	DSI1	633334	3500.01	18.67	19.70	1.268	0.07	1.920	2.434
	N77_Ant 5	100M	QPSK	270	0	DFT-30	Back	12mm	DSI4	633334	3500.01	25.28	25.70	1.102	0.05	0.123	0.135
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	0mm	DSI6/11	633334	3500.01	17.34	18.20	1.219	-0.19	0.967	1.179
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	0mm	DSI6/11	633334	3500.01	17.34	18.20	1.219	-0.11	1.460	1.780
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	0mm	DSI6/11	633334	3500.01	17.29	18.20	1.233	0.1	0.956	1.179
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI6/11	633334	3500.01	17.29	18.20	1.233	-0.02	1.440	1.776
	N77_Ant 5	100M	QPSK	270	0	DFT-30	Top Side	0mm	DSI6/11	633334	3500.01	17.18	18.20	1.265	0.06	1.390	1.758
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Front	0mm	DSI4	656000	3840	25.61	26.70	1.285	0.06	1.430	1.838
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	0mm	DSI1	656000	3840	18.59	19.70	1.291	0.01	1.070	1.382
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	0mm	DSI1	656000	3840	18.59	19.70	1.291	-0.07	1.130	1.459
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	12mm	DSI4	656000	3840	25.61	26.70	1.285	-0.14	0.182	0.234
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	8mm	DSI4	656000	3840	25.61	26.70	1.285	-0.08	0.231	0.297
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Front	0mm	DSI4	656000	3840	25.11	26.70	1.442	0.08	1.290	1.860
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	0mm	DSI1	656000	3840	18.58	19.70	1.294	0.01	0.925	1.197
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI1	656000	3840	18.58	19.70	1.294	0.16	0.982	1.271
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Back	0mm	DSI6/11	656000	3840	17.11	18.20	1.285	-0.01	0.810	1.041
	N77_Ant 5	100M	QPSK	1	1	DFT-30	Top Side	0mm	DSI6/11	656000	3840	17.11	18.20	1.285	-0.13	0.829	1.066
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Back	0mm	DSI6/11	656000	3840	17.06	18.20	1.300	-0.07	0.803	1.044
	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI6/11	656000	3840	17.06	18.20	1.300	-0.01	0.813	1.057
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Back	0mm	DSI1	633334	3500.01	16.65	17.70	1.274	-0.05	1.180	1.503
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	12mm	DSI4	633334	3500.01	24.91	26.20	1.346	0.06	0.290	0.390
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	0mm	DSI1	633334	3500.01	16.60	17.70	1.288	0.12	1.930	2.486
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	12mm	DSI4	633334	3500.01	24.84	26.20	1.368	0.03	0.250	0.342
	N77(PC2)_Ant 10	100M	QPSK	270	0	DFT-30	Back	0mm	DSI1	633334	3500.01	16.55	17.70	1.303	0.01	1.800	2.346
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Back	0mm	DSI6/11	633334	3500.01	15.13	16.20	1.279	0.06	1.100	1.407
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	0mm	DSI6/11	633334	3500.01	15.08	16.20	1.294	-0.11	0.915	1.184
	N77(PC2)_Ant 10	100M	QPSK	270	0	DFT-30	Back	0mm	DSI6/11	633334	3500.01	15.05	16.20	1.303	0.04	1.030	1.342
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Back	0mm	DSI1	656000	3840	16.75	17.70	1.245	0.09	1.730	2.153
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Back	12mm	DSI4	656000	3840	25.10	26.20	1.288	0.02	0.478	0.616
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	0mm	DSI1	656000	3840	16.70	17.70	1.259	0.17	1.350	1.700
	N77(PC2)_Ant 10	100M	QPSK	270	0	DFT-30	Back	0mm	DSI1	656000	3840	16.68	17.70	1.265	-0.04	1.520	1.922
	N77(PC2)_Ant 10	100M	QPSK	1	1	DFT-30	Back	0mm	DSI6/11	656000	3840	15.26	16.20	1.242	0.01	1.020	1.266
	N77(PC2)_Ant 10	100M	QPSK	135	69	DFT-30	Back	0mm	DSI6/11	656000	3840	15.23	16.20	1.250	0.04	0.933	1.166
	N77(PC2)_Ant 10	100M	QPSK	270	0	DFT-30	Back	0mm	DSI6/11	656000	3840	15.19	16.20	1.262	0.07	1.060	1.338



FCC SAR TEST REPORT

Report No. : FA101920

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
102	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Standalone(Full)	6	2437	20.56	22.00	1.393	100	1.000	-0.16	1.580	2.201
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Standalone(Full)	1	2412	20.46	22.00	1.426	100	1.000	-0.1	1.400	1.996
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Standalone(Full)	11	2462	20.41	22.00	1.442	100	1.000	-0.09	1.450	2.091
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Simultaneous	6	2437	17.11	18.50	1.377	100	1.000	0.02	0.754	1.038
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Simultaneous	1	2412	16.96	18.50	1.426	100	1.000	-0.03	0.695	0.991
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 4+6	Simultaneous	11	2462	17.01	18.50	1.409	100	1.000	0.05	0.698	0.984

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	0.12	0.523	0.777
103	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	-0.11	0.826	1.227
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	-0.19	0.235	0.349
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	-0.08	0.135	0.201
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 13+9	Full	42	5210	20.28	22.00	1.486	100	1.000	0.06	0.311	0.462
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 13+9	Full	54	5270	20.54	22.00	1.400	100	1.000	0.12	0.580	0.812
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 13+9	Full	54	5270	20.54	22.00	1.400	100	1.000	-0.11	0.903	1.264
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 13+9	Full	54	5270	20.54	22.00	1.400	100	1.000	-0.19	0.322	0.451
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 13+9	Full	54	5270	20.54	22.00	1.400	100	1.000	-0.08	0.157	0.220
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 13+9	Full	54	5270	20.54	22.00	1.400	100	1.000	0.06	0.371	0.519
104	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 13+9	Full	62	5310	19.54	21.00	1.400	100	1.000	0.06	0.909	1.272
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 13+9	Full	122	5610	20.42	22.00	1.439	100	1.000	0.12	0.522	0.751
105	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 13+9	Full	122	5610	20.42	22.00	1.439	100	1.000	-0.11	1.040	1.496
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 13+9	Full	122	5610	20.42	22.00	1.439	100	1.000	-0.19	0.306	0.440
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 13+9	Full	122	5610	20.42	22.00	1.439	100	1.000	-0.08	0.143	0.206
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 13+9	Full	122	5610	20.42	22.00	1.439	100	1.000	0.06	0.263	0.378
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 13+9	Full	106	5530	20.49	22.00	1.416	100	1.000	0.06	0.466	0.660
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 13+9	Full	106	5530	20.49	22.00	1.416	100	1.000	0.01	0.685	0.970
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 13+9	Full	106	5530	20.49	22.00	1.416	100	1.000	-0.14	0.298	0.422
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 13+9	Full	106	5530	20.49	22.00	1.416	100	1.000	0.05	0.142	0.201
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 13+9	Full	106	5530	20.49	22.00	1.416	100	1.000	0.07	0.259	0.367

**18.5 Repeated SAR Measurement**

<1g>

No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 66_ANT 5	20M	QPSK	1	0	-	Right Tilted	0mm	DSI5	132322	1745	16.15	16.80	1.161	-	-	0.01	0.995	1	1.156
2nd	LTE Band 66_ANT 5	20M	QPSK	1	0	-	Right Tilted	0mm	DSI5	132322	1745	16.15	16.80	1.161	-	-	0.06	0.970	1.026	1.127
1st	LTE Band 25_ANT 2	20M	QPSK	1	0	-	Right Cheek	0mm	DSI5	26590	1905	18.82	19.80	1.253	-	-	0.15	0.913	1	1.144
2nd	LTE Band 25_ANT 2	20M	QPSK	1	0	-	Right Cheek	0mm	DSI5	26590	1905	18.82	19.80	1.253	-	-	0.09	0.901	1.013	1.129
1st	LTE Band 30_ANT 2	10M	QPSK	1	0	-	Right Cheek	0mm	DSI5	27710	2310	21.20	22.00	1.202	-	-	0.17	0.920	1	1.106
2nd	LTE Band 30_ANT 2	10M	QPSK	1	0	-	Right Cheek	0mm	DSI5	27710	2310	21.20	22.00	1.202	-	-	0.05	0.910	1.011	1.094
1st	LTE Band 7_ANT 2	20M	QPSK	1	0	-	Right Cheek	0mm	DSI5	21100	2535	20.10	21.00	1.230	-	-	0.09	0.909	1	1.118
2nd	LTE Band 7_ANT 2	20M	QPSK	1	0	-	Right Cheek	0mm	DSI5	21100	2535	20.10	21.00	1.230	-	-	0.01	0.902	1.133	1.110
1st	LTE Band 48_ANT 5	20M	QPSK	1	0	-	Right Cheek	0mm	DSI5	55830	3609	16.99	17.50	1.125	62.9	1.006	0.1	1.020	1	1.154
2nd	LTE Band 48_ANT 5	20M	QPSK	1	0	-	Right Cheek	0mm	DSI5	55830	3609	16.99	17.50	1.125	62.9	1.006	0.15	0.997	1.023	1.128
1st	N5_Ant 0	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	167300	836.5	23.15	24.20	1.274	-	-	-0.09	0.886	1	1.128
2nd	N5_Ant 0	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	DSI5	167300	836.5	23.15	24.20	1.274	-	-	0.02	0.863	1.027	1.099

<10g>

No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 66_ANT 5	20M	QPSK	1	0	-	Top Side	0mm	DSI1	132072	1720	21.18	21.80	1.153	-	-	0.03	2.180	1	2.515
2nd	LTE Band 66_ANT 5	20M	QPSK	1	0	-	Top Side	0mm	DSI1	132072	1720	21.18	21.80	1.153	-	-	0.03	2.110	1.033	2.434
1st	LTE Band 48_ANT 10	20M	QPSK	50	0	-	Back	0mm	DSI1	56150	3641	19.68	20.30	1.153	62.9	1.006	0.04	2.360	1	2.738
2nd	LTE Band 48_ANT 10	20M	QPSK	50	0	-	Back	0mm	DSI1	56150	3641	19.68	20.30	1.153	62.9	1.006	0.04	2.310	1.022	2.680
1st	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.72	20.70	1.253	-	-	0.06	2.160	1	2.707
2nd	N41(PC2)_Ant 2	100M	QPSK	1	1	DFT-30	Left Side	0mm	DSI1	518598	2592.99	19.72	20.70	1.253	-	-	0.03	2.120	1.019	2.657
1st	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI1	633334	3500.01	18.77	19.70	1.239	-	-	-0.05	2.170	1	2.688
2nd	N77_Ant 5	100M	QPSK	135	69	DFT-30	Top Side	0mm	DSI1	633334	3500.01	18.77	19.70	1.239	-	-	-0.05	2.130	1.019	2.639

General Note:

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

19. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	WLAN 5GHz + Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
6.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
7.	WWAN + WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
8.	WLAN2.4GHz + Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN + WLAN2.4GHz + Bluetooth	Yes	Yes	Yes	Yes
10.	WLAN2.4GHz + WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
11.	WWAN+ WLAN2.4GHz + WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- WWAN above includes 5G NR bands.
- For WLAN2.4GHz and WLAN5GHz support SISO and MIMO mode.
- WLAN2.4GHz/WLAN5GHz MIMO SAR can represent SISO SAR to do co-located SAR analysis.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- WLAN2.4GHz and Bluetooth share the same antenna, and cannot transmit simultaneously.
- WLAN2.4GHz and Bluetooth are located on different antennas, they can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can transmit simultaneously.
- For simultaneously analysis, since the SAR summation of 4 transmitters can cover others combination of 2 and 3 transmitters, therefore in this section did not additional to evaluate 2TX and 3TX combination of simultaneously transmission.
- Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
- All licensed modes share the same antenna part and cannot transmit simultaneously.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- WWAN antenna always chose the worst position SAR among all WWAN bands base on head, hotspot, body and extremity to do co-located with WLAN/Bluetooth. It is the most conservatively evaluation.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

19.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e. SAR exposure for 5G FR1), and $B \leq 1.0$.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if $A + C \leq 1.0$ and $B + C \leq 1.0$ can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Above analysis is also apply to LTE inter band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, So inter band CA uplink no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.

19.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	5	8	9	10	1+5+8+9	1+5+8+10
		WWAN	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All WWAN Bands	Right Cheek	0.989	0.085	0.132	0.101	0.106	1.31	1.31
	Right Tilted	0.989	0.100	0.119	0.078	0.036	1.29	1.24
	Left Cheek	0.989	0.172	0.184	0.154	0.170	1.50	1.52
	Left Tilted	0.989	0.149	0.178	0.152	0.057	1.47	1.37

<5G NR UL MIMO>

WWAN Band		Exposure Position	1	2	5	8	9	10	1+2+5+8+9	1+2+5+8+10
			FR1	FR1	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
N41(UL MIMO)_Ant 3	N41(UL MIMO)_Ant 5	Right Cheek	0.213	0.651	0.085	0.132	0.101	0.106	1.18	1.19
		Right Tilted	0.088	0.674	0.100	0.119	0.078	0.036	1.06	1.02
		Left Cheek	0.118	0.373	0.172	0.184	0.154	0.170	1.00	1.02
		Left Tilted	0.046	0.505	0.149	0.178	0.152	0.057	1.03	0.94

19.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	5	8	9	10	1+5+8+9	1+5+8+10
		WWAN	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All WWAN Bands	Front	0.796	0.096	0.177	0.038	0.062	1.11	1.13
	Back	0.796	0.175	0.420	0.044	0.107	1.44	1.50
	Left side	0.796	0.003	0.269		0.106	1.07	1.17
	Right side	0.796	0.322	0.122	0.056	0.175	1.30	1.42
	Top side	0.796	0.086	0.131	0.082	0.014	1.10	1.03
	Bottom side	0.796					0.80	0.80

<5G NR UL MIMO>

WWAN Band		Exposure Position	1	2	5	8	9	10	1+2+5+8+9	1+2+5+8+10
			FR1	FR1	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
N41(UL MIMO)_Ant 3	N41(UL MIMO)_Ant 5	Front	0.242	0.083	0.096	0.177	0.038	0.062	0.64	0.66
		Back	0.238	0.098	0.175	0.420	0.044	0.107	0.98	1.04
		Left side	0.110	0.025	0.003	0.269		0.106	0.41	0.51
		Right side	0.041	0.020	0.322	0.122	0.056	0.175	0.56	0.68
		Top side		0.275	0.086	0.131	0.082	0.014	0.57	0.51
		Bottom side	0.402						0.40	0.40

19.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	5	8	9	10	1+5+8+9	1+5+8+10
		WWAN	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All WWAN Bands	Front	0.764	0.142	0.171	0.021	0.023	1.10	1.10
	Back	0.764	0.346	0.321	0.025	0.048	1.46	1.48

<5G NR UL MIMO>

WWAN Band		Exposure Position	1	2	5	8	9	10	1+2+5+8+9	1+2+5+8+10
			FR1	FR1	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Bluetooth Ant 4	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
N41(UL MIMO)_Ant 3	N41(UL MIMO)_Ant 5	Front	0.179	0.233	0.142	0.171	0.021	0.023	0.75	0.75
		Back	0.183	0.352	0.346	0.321	0.025	0.048	1.23	1.25

19.5 Product Specific Exposure Conditions

WWAN Band	Exposure Position	1	4	7	1+4+7
		WWAN	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
All WWAN Bands	Front	1.860		0.812	2.67
	Back	1.991		1.496	3.49
	Left side	1.997		0.451	2.45
	Right side		1.038	0.220	1.26
	Top side	1.780		0.519	2.30
	Bottom side	1.998			2.00

<5G NR UL MIMO>

WWAN Band		Exposure Position	1	2	4	7	1+2+4+7
			FR1	FR1	2.4GHz WLAN Ant 4+6	5GHz WLAN Ant 13+9	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
N41(UL MIMO)_Ant 3	N41(UL MIMO)_Ant 5	Front				0.812	0.81
		Back				1.496	1.50
		Left side				0.451	0.45
		Right side			1.038	0.220	1.26
		Top side		1.261		0.519	1.78
		Bottom side	1.224				1.22

Test Engineer : Changlin Huang, Bin He, Mengming Dai



20. Uncertainty Assessment

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

21. References

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

-----THE END-----



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3-SN:1087

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750_211110 Medium parameters used: $f = 750$ MHz; $\sigma = 0.886$ S/m; $\epsilon_r = 41.534$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.79, 9.79, 9.79); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.80 W/kg

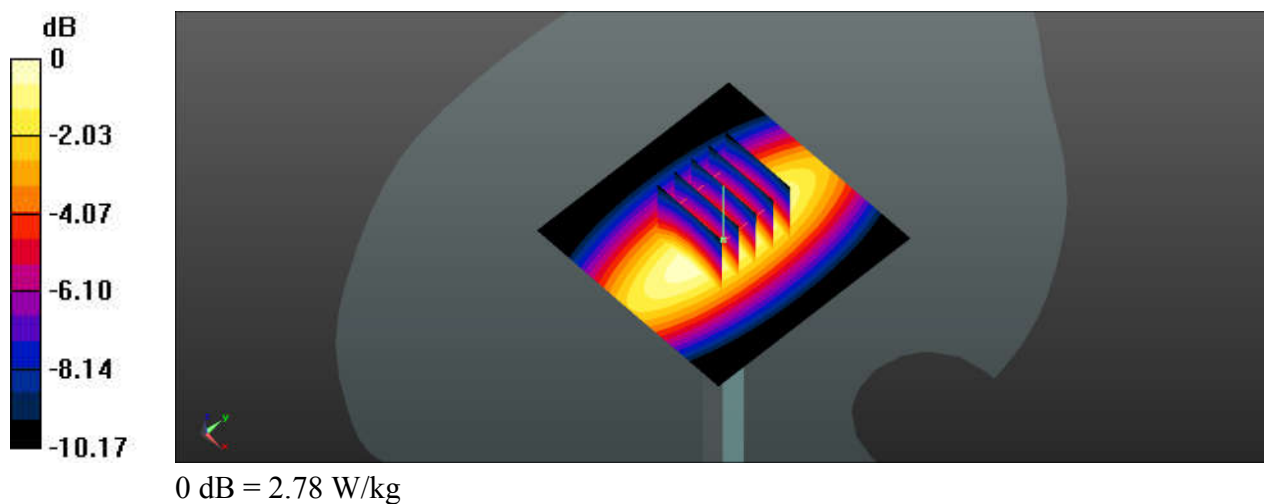
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.38 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.39 W/kg

Maximum value of SAR (measured) = 2.78 W/kg



System Check_Head_750MHz

DUT: D750V3-SN:1087

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750_211114 Medium parameters used: $f = 750$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 41.529$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.47, 10.47, 10.47); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 2.66 W/kg

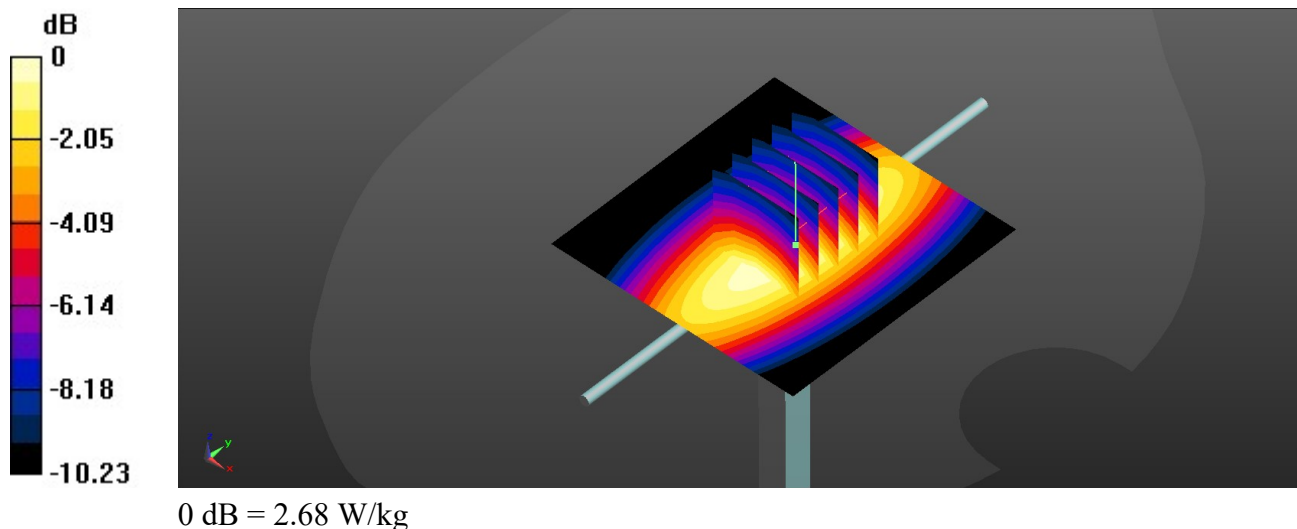
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 56.29 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.35 W/kg

Maximum value of SAR (measured) = 2.68 W/kg



System Check_Head_750MHz

DUT: D750V3-SN:1087

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750_211120 Medium parameters used: $f = 750$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 40.711$; $\rho = 1000$ kg/m³

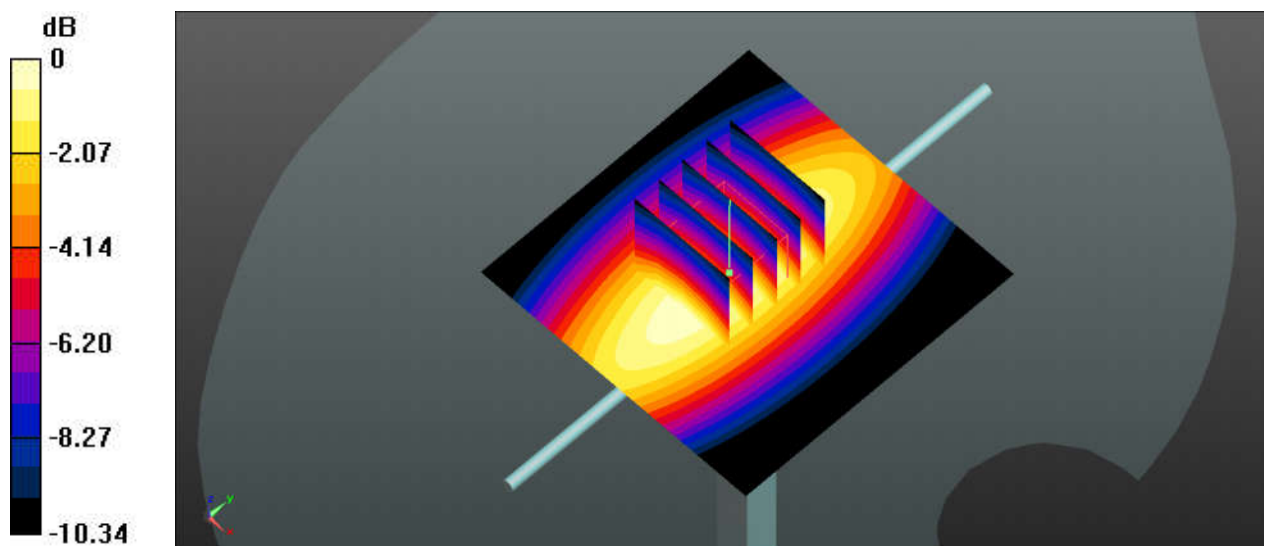
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.74, 6.74, 6.74); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.30 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 52.60 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 2.88 W/kg
SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.31 W/kg
Maximum value of SAR (measured) = 2.29 W/kg



0 dB = 2.30 W/kg

System Check_Head_750MHz

DUT: D750V3-SN:1087

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750_211127 Medium parameters used: $f = 750$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 40.877$; $\rho = 1000$ kg/m³

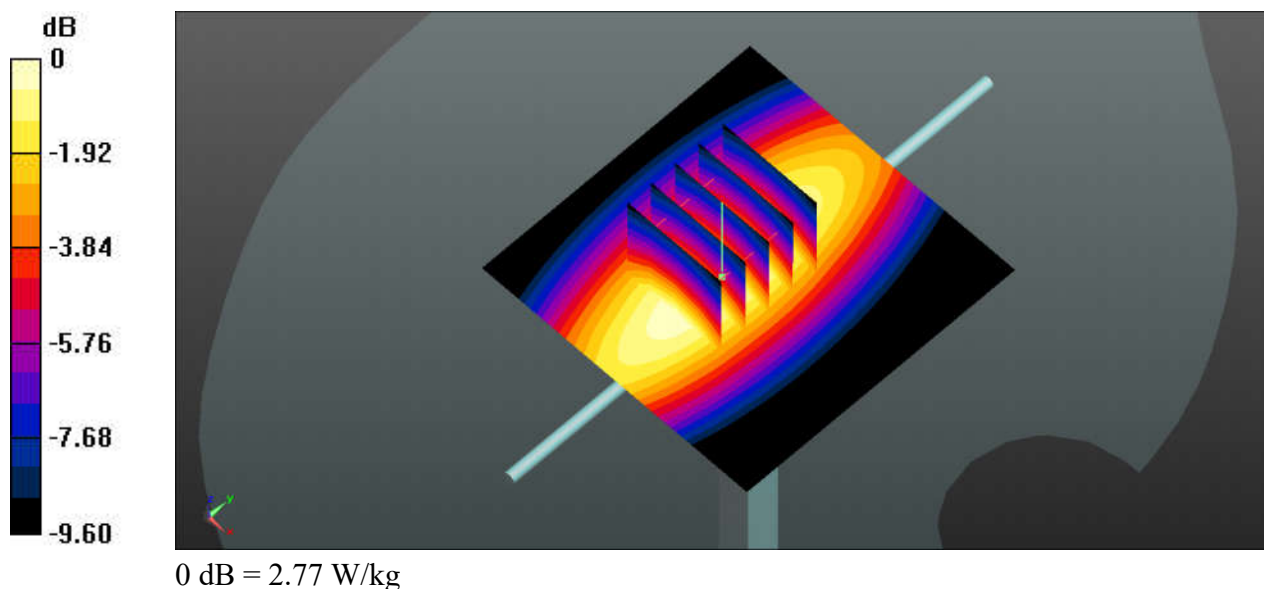
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.74, 6.74, 6.74); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.77 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.90 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.07 W/kg
SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.46 W/kg
Maximum value of SAR (measured) = 2.79 W/kg



System Check_Head_835MHz

DUT: D835V2-SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835_211107 Medium parameters used: $f = 835$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 40.749$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.57, 9.57, 9.57); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.28 W/kg

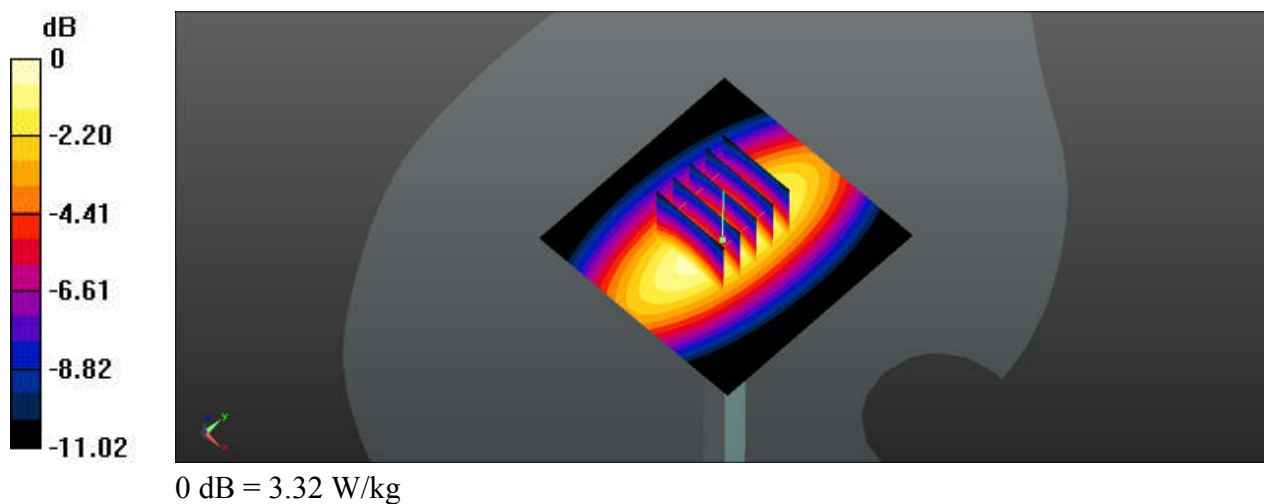
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 62.55 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.59 W/kg

Maximum value of SAR (measured) = 3.32 W/kg



System Check_Head_835MHz

DUT: D835V2-SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835_211115 Medium parameters used: $f = 835$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 41.804$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.19, 10.19, 10.19); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.04 W/kg

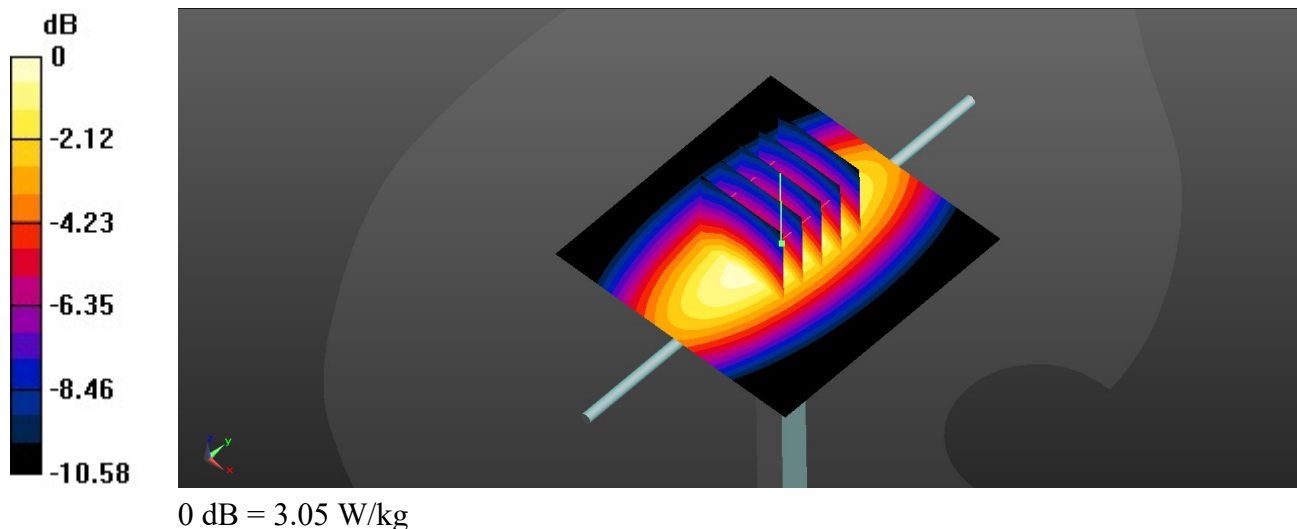
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 61.04 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.51 W/kg

Maximum value of SAR (measured) = 3.05 W/kg



System Check_Head_835MHz

DUT: D835V2-SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835_211120 Medium parameters used: $f = 835$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 43.132$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.57, 6.57, 6.57); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.72 W/kg

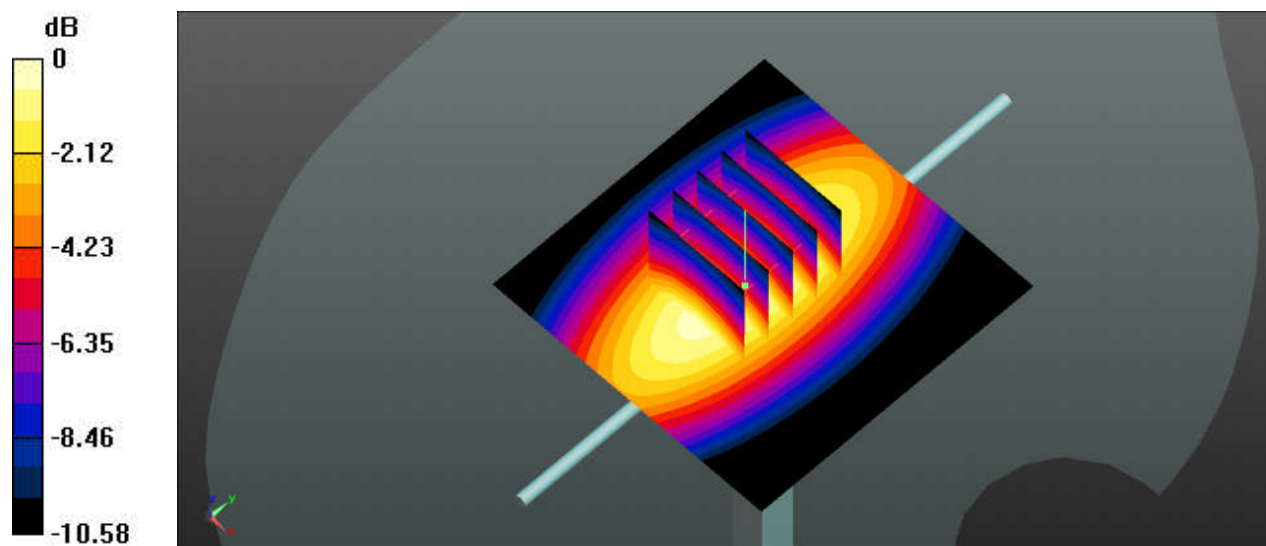
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.30 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.72 W/kg

System Check_Head_835MHz

DUT: D835V2-SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835_211201 Medium parameters used: $f = 835$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 42.591$; $\rho = 1000$ kg/m³

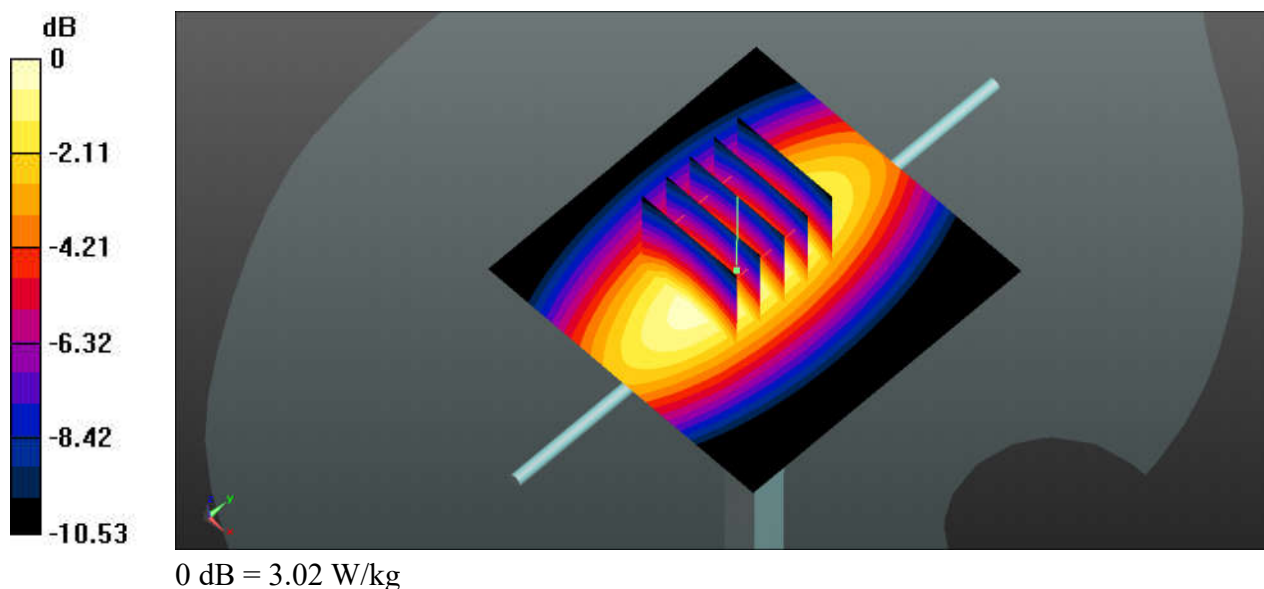
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.57, 6.57, 6.57); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.02 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 59.22 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.54 W/kg
SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.59 W/kg
Maximum value of SAR (measured) = 3.05 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1137

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_211116 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 41.417$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.53, 8.53, 8.53); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

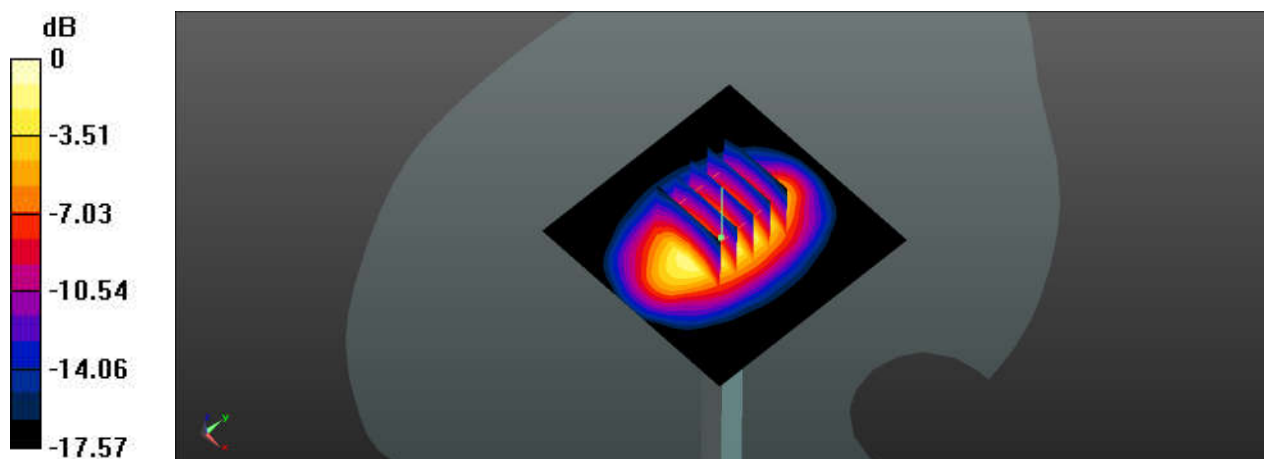
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 104.0 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.06 W/kg; SAR(10 g) = 4.79 W/kg

Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg

System Check_Head_1750MHz

DUT: D1750V2-SN:1137

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_211120 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.392$ S/m; $\epsilon_r = 40.573$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.73, 8.73, 8.73); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 14.3 W/kg

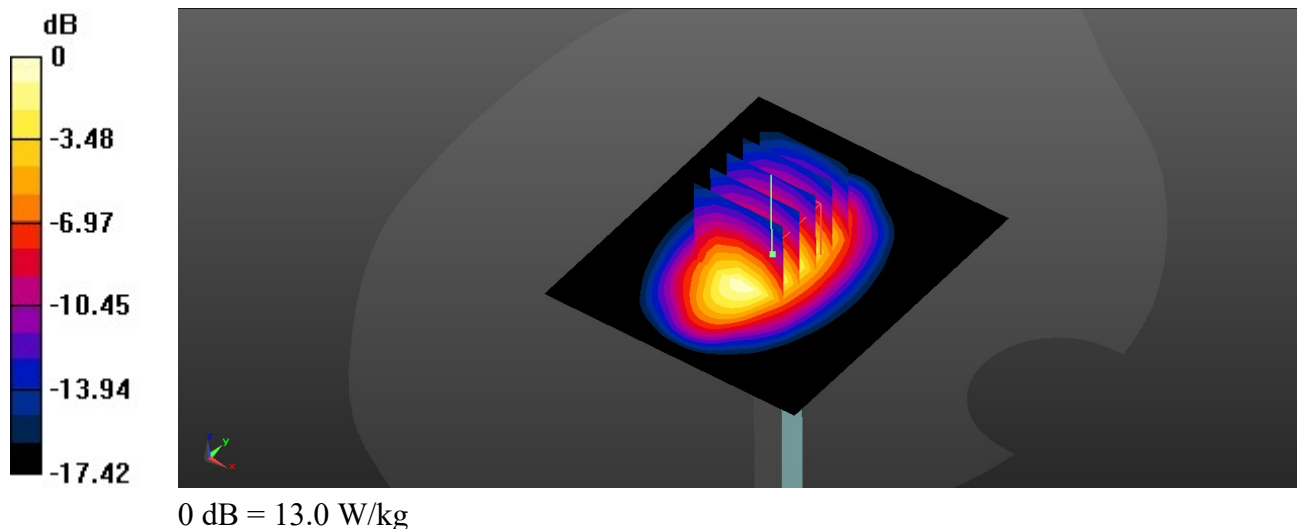
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 104.8 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 8.86 W/kg; SAR(10 g) = 4.78 W/kg

Maximum value of SAR (measured) = 13.0 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1137

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_211121 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.313$ S/m; $\epsilon_r = 38.588$; $\rho = 1000$ kg/m³

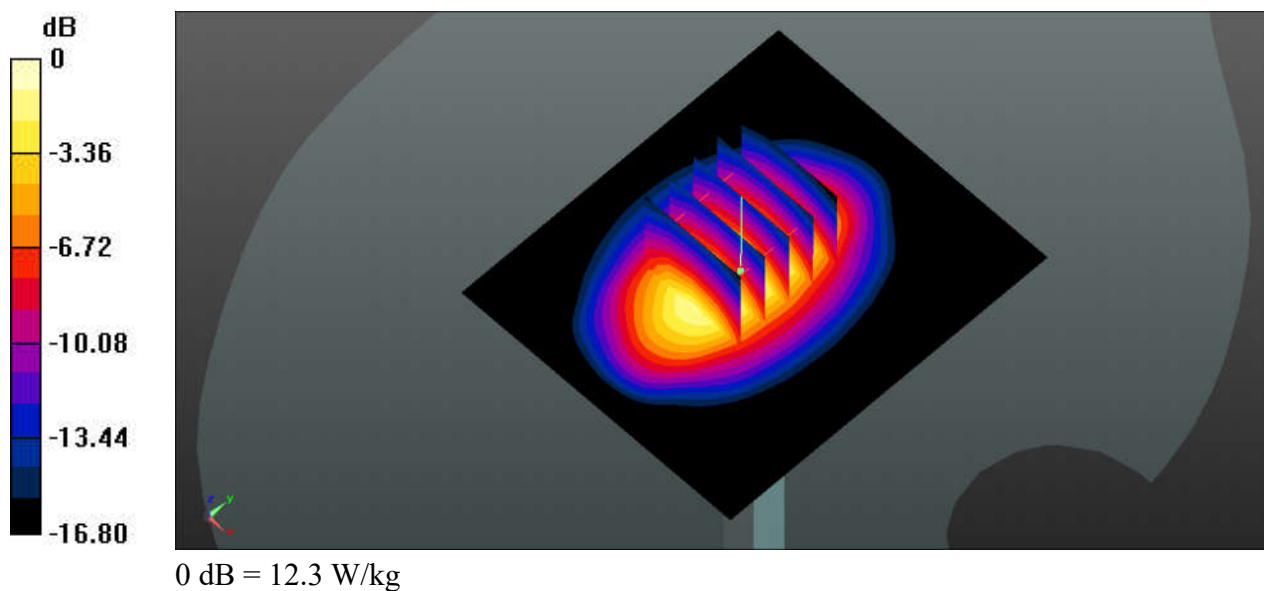
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.48, 5.48, 5.48); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 12.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 92.88 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 14.8 W/kg
SAR(1 g) = 8.38 W/kg; SAR(10 g) = 4.5 W/kg
Maximum value of SAR (measured) = 11.8 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1137

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_211128 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.306$ S/m; $\epsilon_r = 38.143$; $\rho = 1000$ kg/m³

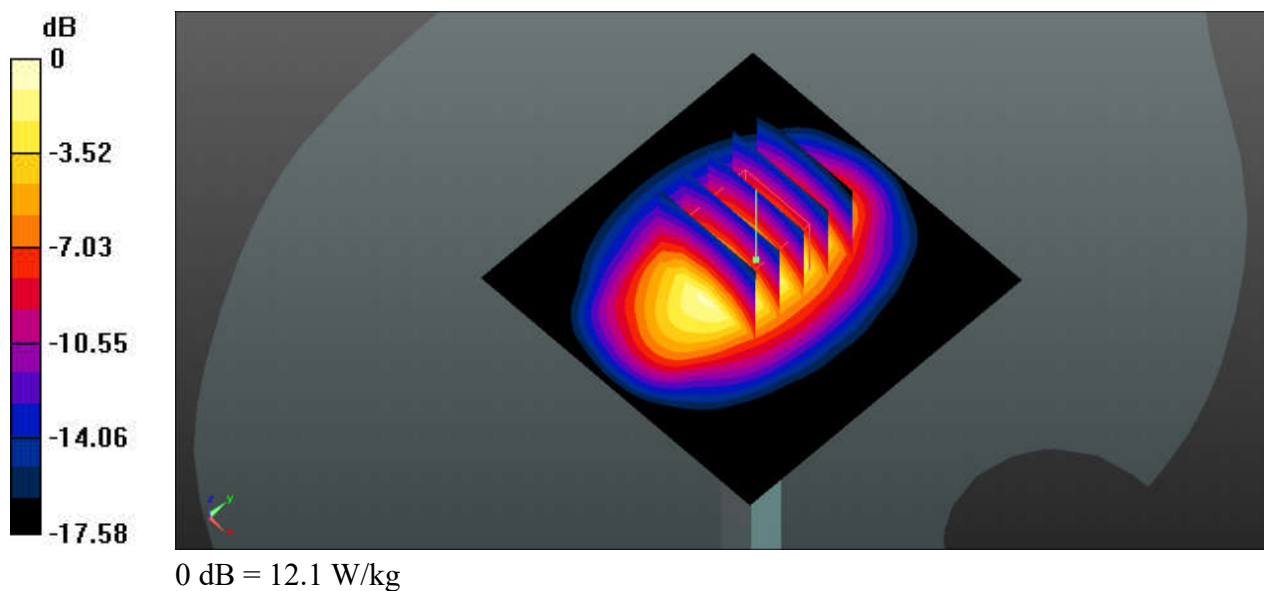
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.48, 5.48, 5.48); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 12.1 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 96.69 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 15.3 W/kg
SAR(1 g) = 8.57 W/kg; SAR(10 g) = 4.59 W/kg
Maximum value of SAR (measured) = 12.0 W/kg



System Check_Head_1900MHz

DUT: D1900V2-SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_211108 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.381$ S/m; $\epsilon_r = 38.057$; $\rho = 1000$ kg/m³

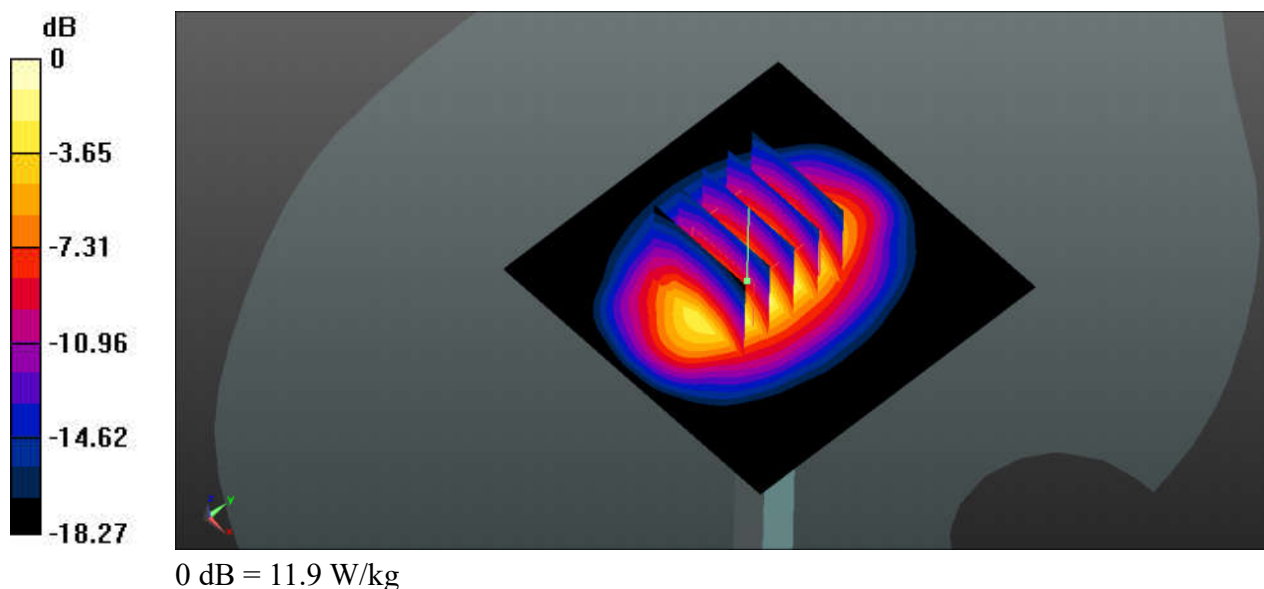
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 12.1 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 91.94 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 9.41 W/kg; SAR(10 g) = 4.88 W/kg
Maximum value of SAR (measured) = 11.9 W/kg



System Check_Head_1900MHz

DUT: D1900V2-SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_211119 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 39.311$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.33, 8.33, 8.33); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 15.1 W/kg

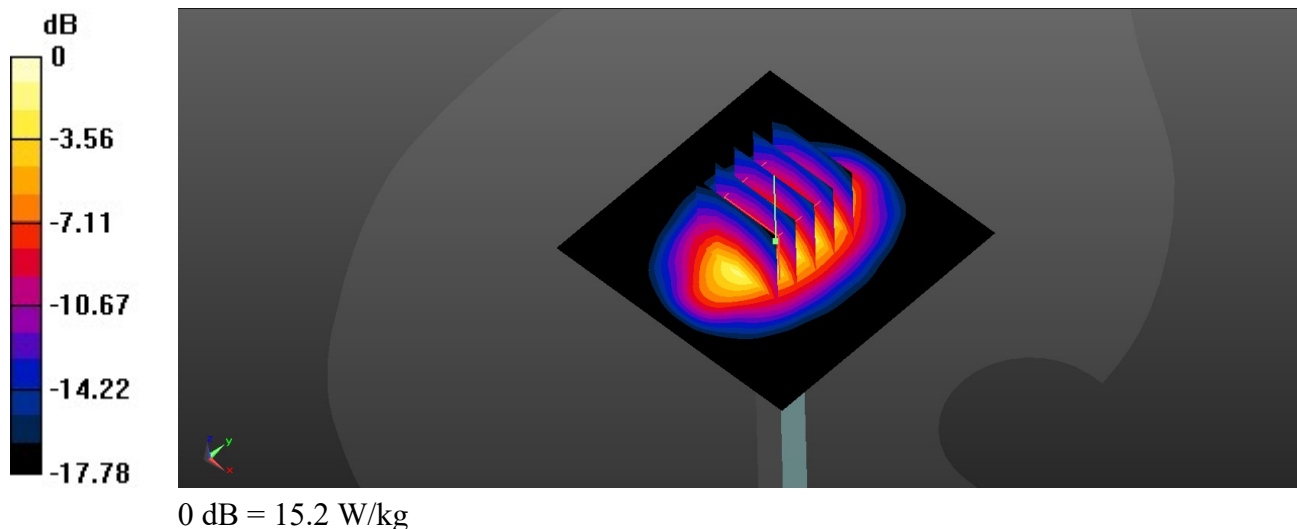
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 107.6 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 9.66 W/kg; SAR(10 g) = 5 W/kg

Maximum value of SAR (measured) = 15.2 W/kg



System Check_Head_1900MHz

DUT: D1900V2-SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_211121 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 40.038$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.24, 8.24, 8.24); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.8 W/kg

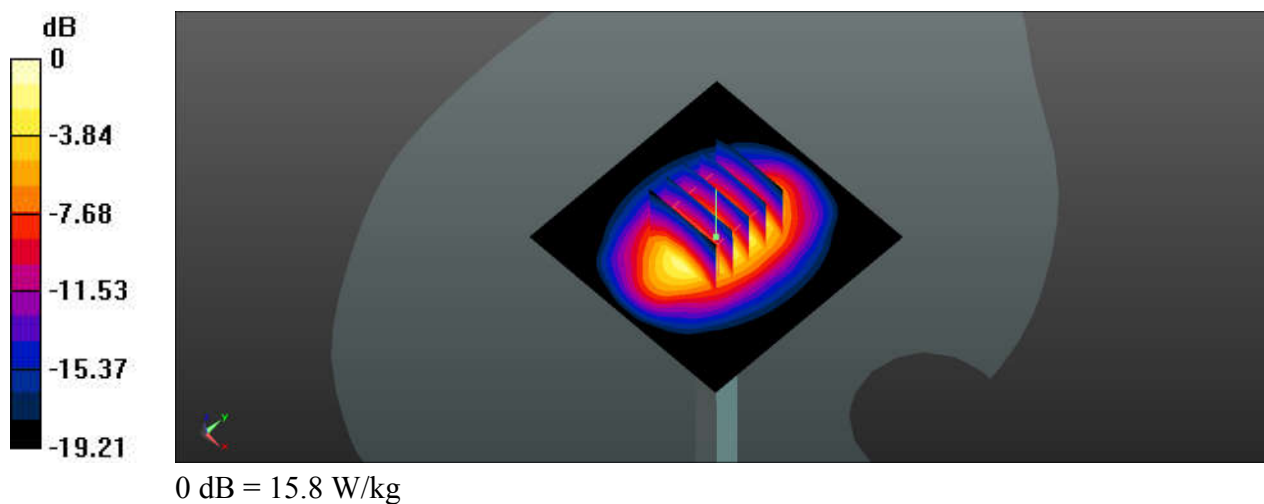
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 107.7 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 19.3 W/kg

SAR(1 g) = 9.74 W/kg; SAR(10 g) = 4.93 W/kg

Maximum value of SAR (measured) = 15.8 W/kg



System Check_Head_1900MHz

DUT: D1900V2-SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_211129 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.421$ S/m; $\epsilon_r = 38.99$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 99.56 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 9.54 W/kg; SAR(10 g) = 4.94 W/kg
Maximum value of SAR (measured) = 14.9 W/kg

