

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

Note: The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Antenna 1

LTE band 2

Test result:

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.46	-49.46	-13	Vertical
2778.50	-47.03	-13	Vertical
3726.59	-40.71	-13	Vertical
6676.59	-39.65	-13	Vertical
9961.75	-36.92	-13	Vertical
17820.81	-33.58	-13	Vertical

Channel 18900

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.96	-49.27	-13	Vertical
2779.94	-47.74	-13	Vertical
3726.06	-40.77	-13	Vertical
6676.53	-39.22	-13	Vertical
9960.09	-37.60	-13	Vertical
17818.49	-34.19	-13	Vertical

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.02	-49.11	-13	Vertical
2780.52	-47.18	-13	Vertical
3726.97	-40.40	-13	Vertical
6677.53	-39.29	-13	Vertical
9961.03	-37.70	-13	Vertical
17819.26	-34.26	-13	Vertical

LTE band 4

Test result:

Channel 20050

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.02	-49.27	-13	Vertical
2780.24	-47.16	-13	Vertical
3726.98	-40.55	-13	Vertical
6678.28	-39.63	-13	Vertical
9962.26	-37.47	-13	Vertical
17821.39	-34.03	-13	Vertical

Channel 20175

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.13	-49.25	-13	Vertical
2779.90	-46.89	-13	Vertical
3726.07	-41.03	-13	Vertical
6678.58	-40.12	-13	Vertical
9962.70	-36.98	-13	Vertical
17820.80	-33.85	-13	Vertical

Channel 20300

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.13	-49.35	-13	Vertical
2778.77	-47.23	-13	Vertical
3728.00	-41.20	-13	Vertical
6678.80	-39.64	-13	Vertical
9961.30	-37.13	-13	Vertical
17818.95	-34.00	-13	Vertical

LTE band 5

Test result:

Channel 20450

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.96	-53.13	-13	Vertical
1667.43	-51.65	-13	Vertical
2536.24	-44.21	-13	Vertical
2577.44	-44.36	-13	Vertical
8963.17	-39.82	-13	Vertical
9972.03	-36.09	-13	Vertical

Channel 20525

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.72	-52.78	-13	Vertical
1666.31	-51.30	-13	Vertical
2533.32	-44.29	-13	Vertical
2577.62	-44.12	-13	Vertical
8964.62	-39.12	-13	Vertical
9970.89	-36.46	-13	Vertical

Channel 20600

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.99	-52.79	-13	Vertical
1668.78	-50.96	-13	Vertical
2532.58	-44.34	-13	Vertical
2576.25	-44.49	-13	Vertical
8961.71	-39.63	-13	Vertical
9971.94	-35.87	-13	Vertical

LTE band 7

Test result:

Channel 20850

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.54	-48.89	-25	Vertical
2778.60	-46.92	-25	Vertical
3726.85	-41.25	-25	Vertical
6677.33	-39.85	-25	Vertical
9959.52	-36.78	-25	Vertical
17821.72	-33.83	-25	Vertical

Channel 21100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.34	-48.53	-25	Vertical
2781.03	-47.10	-25	Vertical
3727.68	-40.70	-25	Vertical
6678.34	-40.12	-25	Vertical
9962.10	-36.86	-25	Vertical
17820.80	-34.15	-25	Vertical

Channel 21350

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.27	-48.51	-25	Vertical
2781.76	-47.47	-25	Vertical
3726.23	-41.08	-25	Vertical
6675.93	-39.92	-25	Vertical
9962.80	-37.11	-25	Vertical
17822.34	-34.37	-25	Vertical

LTE band 13

Test result:
Channel 23205

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1559.00	-71.46	-40	Vertical
1564.00	-71.39	-40	Vertical
1569.00	-72.63	-40	Vertical
1649.44	-52.57	-13	Vertical
1666.66	-51.53	-13	Vertical
2532.89	-43.94	-13	Vertical
2579.18	-44.61	-13	Vertical
8960.95	-39.11	-13	Vertical
9971.17	-36.06	-13	Vertical

Channel 23230

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1559.00	-71.57	-40	Vertical
1564.00	-71.33	-40	Vertical
1569.00	-71.72	-40	Vertical
1646.68	-52.89	-13	Vertical
1667.55	-51.48	-13	Vertical
2532.76	-44.12	-13	Vertical
2578.62	-44.23	-13	Vertical
8962.09	-39.27	-13	Vertical
9972.61	-36.08	-13	Vertical

Channel 23255

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1559.00	-72.25	-40	Vertical
1564.00	-71.61	-40	Vertical
1569.00	-71.83	-40	Vertical
1648.57	-52.91	-13	Vertical
1666.44	-50.97	-13	Vertical
2536.25	-44.44	-13	Vertical
2576.32	-43.82	-13	Vertical
8962.69	-39.23	-13	Vertical
9973.42	-36.44	-13	Vertical

LTE band 26

Test result:

Channel 26740

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.85	-52.76	-13	Vertical
1665.45	-51.50	-13	Vertical
2535.43	-43.84	-13	Vertical
2576.06	-44.29	-13	Horizontal
8961.17	-39.22	-13	Vertical
9970.08	-35.94	-13	Vertical

Channel 26865

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.41	-53.35	-13	Vertical
1665.51	-51.18	-13	Vertical
2535.25	-44.10	-13	Horizontal
2575.78	-44.54	-13	Vertical
8963.89	-39.69	-13	Vertical
9970.88	-35.97	-13	Vertical

Channel 26990

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.61	-53.44	-13	Vertical
1667.10	-50.93	-13	Horizontal
2535.22	-44.75	-13	Vertical
2576.82	-43.99	-13	Vertical
8963.96	-39.86	-13	Vertical
9972.00	-36.65	-13	Vertical

LTE band 38

Test result:

Channel 37850

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.07	-48.86	-25	Vertical
2779.53	-47.84	-25	Vertical
3724.50	-41.28	-25	Vertical
6675.56	-39.55	-25	Vertical
9959.76	-37.18	-25	Vertical
17821.26	-34.14	-25	Vertical

Channel 38000

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.34	-49.44	-25	Vertical
2778.52	-47.54	-25	Vertical
3725.45	-41.09	-25	Vertical
6678.79	-39.73	-25	Vertical
9960.01	-37.16	-25	Vertical
17822.24	-34.42	-25	Vertical

Channel 38150

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.86	-49.23	-25	Vertical
2780.05	-46.88	-25	Horizontal
3727.66	-41.03	-25	Vertical
6677.21	-39.20	-25	Vertical
9963.29	-36.80	-25	Vertical
17820.35	-33.75	-25	Vertical

LTE band 66

Test result:

Channel 132072

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.42	-49.18	-13	Vertical
2780.63	-47.04	-13	Vertical
3725.63	-40.35	-13	Vertical
6675.19	-39.77	-13	Vertical
9960.15	-36.93	-13	Vertical
17820.02	-34.37	-13	Vertical

Channel 132322

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.46	-48.58	-13	Vertical
2781.75	-47.34	-13	Vertical
3727.98	-41.35	-13	Vertical
6677.49	-39.76	-13	Vertical
9962.14	-37.39	-13	Vertical
17821.58	-33.77	-13	Vertical

Channel 132572

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.93	-49.03	-13	Vertical
2781.63	-46.94	-13	Vertical
3724.82	-41.15	-13	Vertical
6675.64	-39.21	-13	Vertical
9961.37	-37.52	-13	Vertical
17821.83	-33.94	-13	Vertical

Antenna 2

LTE band 2

Test result:

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.04	-49.32	-13	Vertical
2779.31	-47.39	-13	Vertical
3725.39	-40.96	-13	Vertical
6677.63	-39.92	-13	Vertical
9961.98	-37.73	-13	Vertical
17819.99	-34.31	-13	Vertical

Channel 18900

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.87	-49.46	-13	Vertical
2780.38	-47.04	-13	Vertical
3728.17	-40.96	-13	Vertical
6678.07	-39.27	-13	Vertical
9962.41	-37.30	-13	Vertical
17821.32	-34.37	-13	Vertical

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.75	-48.96	-13	Vertical
2779.41	-46.93	-13	Vertical
3726.00	-40.91	-13	Vertical
6678.48	-39.34	-13	Vertical
9961.03	-37.42	-13	Vertical
17821.60	-33.91	-13	Vertical

LTE band 4

Test result:

Channel 20050

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.06	-48.98	-13	Vertical
2778.48	-47.26	-13	Vertical
3726.33	-41.22	-13	Vertical
6678.72	-40.06	-13	Vertical
9960.30	-37.30	-13	Vertical
17819.34	-33.67	-13	Vertical

Channel 20175

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.70	-49.36	-13	Vertical
2781.53	-47.22	-13	Vertical
3726.21	-40.41	-13	Vertical
6675.00	-39.32	-13	Vertical
9963.04	-36.96	-13	Vertical
17821.75	-33.67	-13	Vertical

Channel 20300

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.30	-48.57	-13	Vertical
2780.77	-47.34	-13	Vertical
3727.22	-40.36	-13	Vertical
6674.93	-39.93	-13	Vertical
9962.28	-37.49	-13	Vertical
17821.95	-34.13	-13	Vertical

LTE band 5

Test result:

Channel 20450

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.87	-53.00	-13	Vertical
1668.26	-50.91	-13	Vertical
2535.69	-44.80	-13	Vertical
2576.19	-44.35	-13	Vertical
8960.84	-39.85	-13	Vertical
9972.50	-36.80	-13	Vertical

Channel 20525

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.02	-53.37	-13	Vertical
1666.25	-51.46	-13	Vertical
2532.56	-44.76	-13	Vertical
2575.95	-43.99	-13	Vertical
8962.82	-39.19	-13	Vertical
9971.43	-36.06	-13	Vertical

Channel 20600

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1650.37	-52.60	-13	Vertical
1668.26	-50.94	-13	Vertical
2534.14	-44.11	-13	Vertical
2576.67	-43.82	-13	Vertical
8964.47	-39.70	-13	Vertical
9971.53	-36.10	-13	Vertical

LTE band 7

Test result:

Channel 20850

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.59	-49.46	-25	Vertical
2781.17	-47.37	-25	Vertical
3725.48	-40.60	-25	Vertical
6677.24	-39.71	-25	Vertical
9959.69	-37.14	-25	Vertical
17821.17	-34.03	-25	Vertical

Channel 21100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.27	-48.55	-25	Vertical
2778.85	-47.68	-25	Vertical
3725.98	-41.03	-25	Vertical
6678.06	-39.47	-25	Vertical
9963.23	-37.68	-25	Vertical
17820.70	-34.01	-25	Vertical

Channel 21350

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.19	-49.46	-25	Vertical
2781.45	-47.66	-25	Vertical
3726.78	-40.95	-25	Vertical
6675.73	-39.49	-25	Vertical
9959.88	-37.40	-25	Vertical
17820.89	-33.54	-25	Vertical

LTE band 13

Test result:
Channel 23205

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1559.00	-71.28	-40	Vertical
1564.00	-71.36	-40	Vertical
1569.00	-72.84	-40	Vertical
1648.01	-53.46	-13	Vertical
1666.47	-51.71	-13	Vertical
2532.60	-44.81	-13	Vertical
2576.07	-44.01	-13	Vertical
8961.70	-39.69	-13	Vertical
9972.24	-36.05	-13	Vertical

Channel 23230

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1559.00	-71.66	-40	Vertical
1564.00	-71.25	-40	Vertical
1569.00	-71.43	-40	Vertical
1647.11	-52.74	-13	Vertical
1668.43	-51.27	-13	Vertical
2532.66	-44.76	-13	Vertical
2576.78	-44.40	-13	Vertical
8963.48	-39.42	-13	Vertical
9972.49	-35.92	-13	Vertical

Channel 23255

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1559.00	-72.13	-40	Vertical
1564.00	-71.87	-40	Vertical
1569.00	-71.61	-40	Vertical
1649.96	-53.02	-13	Vertical
1666.14	-51.71	-13	Vertical
2535.15	-44.38	-13	Vertical
2576.83	-44.45	-13	Vertical
8964.40	-39.34	-13	Vertical
9972.63	-36.77	-13	Vertical

LTE band 26

Test result:

Channel 26740

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.02	-52.58	-13	Vertical
1668.00	-51.28	-13	Vertical
2534.15	-44.51	-13	Vertical
2577.01	-44.57	-13	Horizontal
8961.08	-39.81	-13	Vertical
9972.58	-36.63	-13	Vertical

Channel 26865

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.77	-53.22	-13	Vertical
1668.66	-50.94	-13	Vertical
2533.40	-44.05	-13	Horizontal
2578.34	-44.28	-13	Vertical
8964.73	-39.77	-13	Vertical
9970.89	-36.47	-13	Vertical

Channel 26990

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.80	-53.04	-13	Vertical
1666.91	-50.99	-13	Horizontal
2533.91	-44.11	-13	Vertical
2578.70	-43.75	-13	Vertical
8963.13	-39.63	-13	Vertical
9971.04	-36.64	-13	Vertical

LTE band 38

Test result:

Channel 37850

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.21	-48.58	-25	Vertical
2780.99	-47.06	-25	Vertical
3726.55	-41.20	-25	Vertical
6676.80	-39.31	-25	Vertical
9962.68	-36.87	-25	Vertical
17819.86	-33.85	-25	Vertical

Channel 38000

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.48	-48.78	-25	Vertical
2780.33	-47.07	-25	Vertical
3725.22	-40.64	-25	Vertical
6678.27	-39.90	-25	Vertical
9959.44	-37.12	-25	Vertical
17819.09	-33.71	-25	Vertical

Channel 38150

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.94	-49.34	-25	Vertical
2781.52	-47.63	-25	Horizontal
3728.33	-40.38	-25	Vertical
6677.31	-39.44	-25	Vertical
9959.70	-36.92	-25	Vertical
17820.37	-34.07	-25	Vertical

LTE band 66

Test result:

Channel 132072

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.38	-48.68	-13	Vertical
2781.61	-47.30	-13	Vertical
3726.20	-40.96	-13	Vertical
6678.29	-39.38	-13	Vertical
9962.53	-37.08	-13	Vertical
17822.08	-34.03	-13	Vertical

Channel 132322

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.95	-49.14	-13	Vertical
2778.20	-47.50	-13	Vertical
3727.12	-40.99	-13	Vertical
6678.46	-39.40	-13	Vertical
9960.97	-37.43	-13	Vertical
17819.01	-33.80	-13	Vertical

Channel 132572

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.52	-48.54	-13	Vertical
2779.27	-47.35	-13	Vertical
3725.18	-40.87	-13	Vertical
6676.91	-39.87	-13	Vertical
9960.00	-37.62	-13	Vertical
17821.74	-34.07	-13	Vertical

---The end of the test report---