

## **APPENDIX B – TEST DATA OF RADIATED EMISSION**

LTE band 2

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	EIRP (dBm)	EIRP (W)
Band2	QPSK	1.4	18607	1#0	23.26	0.212
Band2	QPSK	1.4	18900	1#0	23.28	0.213
Band2	QPSK	1.4	19193	1#0	23.25	0.211
Band2	16QAM	1.4	18607	1#0	22.67	0.185
Band2	16QAM	1.4	18900	1#0	22.77	0.189
Band2	16QAM	1.4	19193	1#0	22.73	0.187
Band2	64QAM	1.4	18607	1#0	22.37	0.173
Band2	64QAM	1.4	18900	1#0	22.42	0.175
Band2	64QAM	1.4	19193	1#0	22.38	0.173
Band2	QPSK	3	18615	1#0	23.24	0.211
Band2	QPSK	3	18900	1#0	23.30	0.214
Band2	QPSK	3	19185	1#0	23.21	0.209
Band2	16QAM	3	18615	1#0	22.65	0.184
Band2	16QAM	3	18900	1#0	22.76	0.189
Band2	16QAM	3	19185	1#0	22.66	0.185
Band2	64QAM	3	18615	1#0	22.29	0.169
Band2	64QAM	3	18900	1#0	22.38	0.173
Band2	64QAM	3	19185	1#0	22.36	0.172
Band2	QPSK	5	18625	1#0	23.24	0.211
Band2	QPSK	5	18900	1#0	23.35	0.216
Band2	QPSK	5	19175	1#0	23.28	0.213
Band2	16QAM	5	18625	1#0	22.73	0.187
Band2	16QAM	5	18900	1#0	22.83	0.192
Band2	16QAM	5	19175	1#0	22.72	0.187
Band2	64QAM	5	18625	1#0	22.36	0.172
Band2	64QAM	5	18900	1#0	22.42	0.175
Band2	64QAM	5	19175	1#0	22.35	0.172
Band2	QPSK	10	18650	1#0	23.22	0.210
Band2	QPSK	10	18900	1#0	23.25	0.211
Band2	QPSK	10	19150	1#0	23.19	0.208
Band2	16QAM	10	18650	1#0	22.64	0.184
Band2	16QAM	10	18900	1#0	22.70	0.186
Band2	16QAM	10	19150	1#0	22.69	0.186
Band2	64QAM	10	18650	1#0	22.29	0.169
Band2	64QAM	10	18900	1#0	22.40	0.174
Band2	64QAM	10	19150	1#0	22.28	0.169
Band2	QPSK	15	18675	1#0	23.29	0.213
Band2	QPSK	15	18900	1#0	23.30	0.214
Band2	QPSK	15	19125	1#0	23.26	0.212
Band2	16QAM	15	18675	1#0	22.70	0.186
Band2	16QAM	15	18900	1#0	22.80	0.191

Band2	16QAM	15	19125	1#0	22.67	0.185
Band2	64QAM	15	18675	1#0	22.28	0.169
Band2	64QAM	15	18900	1#0	22.37	0.173
Band2	64QAM	15	19125	1#0	22.40	0.174
Band2	QPSK	20	18700	1#0	23.34	0.216
Band2	QPSK	20	18900	1#0	23.40	0.219
Band2	QPSK	20	19100	1#0	23.35	0.216
Band2	16QAM	20	18700	1#0	22.79	0.190
Band2	16QAM	20	18900	1#0	22.88	0.194
Band2	16QAM	20	19100	1#0	22.82	0.191
Band2	64QAM	20	18700	1#0	22.43	0.175
Band2	64QAM	20	18900	1#0	22.50	0.178
Band2	64QAM	20	19100	1#0	22.46	0.176

Test result:

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.86	-48.94	-13	Vertical
2780.13	-47.73	-13	Vertical
3727.63	-40.56	-13	Vertical
6676.91	-39.21	-13	Vertical
9962.92	-37.67	-13	Vertical
17820.50	-34.21	-13	Vertical

Channel 18900

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.29	-48.69	-13	Vertical
2781.03	-47.29	-13	Vertical
3726.84	-41.10	-13	Vertical
6675.95	-39.55	-13	Vertical
9963.22	-37.29	-13	Vertical
17820.08	-33.77	-13	Vertical

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.90	-48.88	-13	Vertical
2779.30	-47.83	-13	Vertical
3726.63	-41.07	-13	Vertical
6676.67	-39.80	-13	Vertical
9961.94	-37.51	-13	Vertical
17819.53	-33.65	-13	Vertical

LTE band 4

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	EIRP (dBm)	EIRP (W)
Band4	QPSK	1.4	19957	1#0	23.35	0.216
Band4	QPSK	1.4	20175	1#0	23.38	0.218
Band4	QPSK	1.4	20393	1#0	23.26	0.212
Band4	16QAM	1.4	19957	1#0	22.25	0.168
Band4	16QAM	1.4	20175	1#0	22.30	0.170
Band4	16QAM	1.4	20393	1#0	22.05	0.160
Band4	64QAM	1.4	19957	1#0	22.22	0.167
Band4	64QAM	1.4	20175	1#0	22.20	0.166
Band4	64QAM	1.4	20393	1#0	22.02	0.159
Band4	QPSK	3	19965	1#0	23.35	0.216
Band4	QPSK	3	20175	1#0	23.40	0.219
Band4	QPSK	3	20385	1#0	23.18	0.208
Band4	16QAM	3	19965	1#0	22.18	0.165
Band4	16QAM	3	20175	1#0	22.26	0.168
Band4	16QAM	3	20385	1#0	22.05	0.160
Band4	64QAM	3	19965	1#0	22.18	0.165
Band4	64QAM	3	20175	1#0	22.18	0.165
Band4	64QAM	3	20385	1#0	21.99	0.158
Band4	QPSK	5	19975	1#0	23.34	0.216
Band4	QPSK	5	20175	1#0	23.40	0.219
Band4	QPSK	5	20375	1#0	23.27	0.212
Band4	16QAM	5	19975	1#0	22.27	0.169
Band4	16QAM	5	20175	1#0	22.26	0.168
Band4	16QAM	5	20375	1#0	22.05	0.160
Band4	64QAM	5	19975	1#0	22.20	0.166
Band4	64QAM	5	20175	1#0	22.22	0.167
Band4	64QAM	5	20375	1#0	22.07	0.161
Band4	QPSK	10	20000	1#0	23.37	0.217
Band4	QPSK	10	20175	1#0	23.36	0.217
Band4	QPSK	10	20350	1#0	23.19	0.208
Band4	16QAM	10	20000	1#0	22.18	0.165
Band4	16QAM	10	20175	1#0	22.25	0.168
Band4	16QAM	10	20350	1#0	21.98	0.158
Band4	64QAM	10	20000	1#0	22.20	0.166
Band4	64QAM	10	20175	1#0	22.21	0.166
Band4	64QAM	10	20350	1#0	22.05	0.160
Band4	QPSK	15	20025	1#0	23.36	0.217
Band4	QPSK	15	20175	1#0	23.42	0.220
Band4	QPSK	15	20325	1#0	23.25	0.211
Band4	16QAM	15	20025	1#0	22.21	0.166
Band4	16QAM	15	20175	1#0	22.29	0.169
Band4	16QAM	15	20325	1#0	22.07	0.161

Band4	64QAM	15	20025	1#0	22.17	0.165
Band4	64QAM	15	20175	1#0	22.18	0.165
Band4	64QAM	15	20325	1#0	21.98	0.158
Band4	QPSK	20	20050	1#0	23.45	0.221
Band4	QPSK	20	20175	1#0	23.50	0.224
Band4	QPSK	20	20300	1#0	23.32	0.215
Band4	16QAM	20	20050	1#0	22.32	0.171
Band4	16QAM	20	20175	1#0	22.36	0.172
Band4	16QAM	20	20300	1#0	22.15	0.164
Band4	64QAM	20	20050	1#0	22.28	0.169
Band4	64QAM	20	20175	1#0	22.32	0.171
Band4	64QAM	20	20300	1#0	22.13	0.163

Test result:  
Channel 20050

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.55	-49.22	-13	Vertical
2779.41	-47.88	-13	Vertical
3727.75	-40.77	-13	Vertical
6675.48	-39.92	-13	Vertical
9960.29	-37.01	-13	Vertical
17821.12	-33.83	-13	Vertical

Channel 20175

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.85	-48.88	-13	Vertical
2780.54	-47.42	-13	Vertical
3727.44	-41.24	-13	Vertical
6678.81	-39.99	-13	Vertical
9963.24	-36.81	-13	Vertical
17820.91	-33.54	-13	Vertical

Channel 20300

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.04	-48.84	-13	Vertical
2779.26	-46.89	-13	Vertical
3727.59	-40.61	-13	Vertical
6677.97	-40.10	-13	Vertical
9963.30	-37.66	-13	Vertical
17819.80	-33.74	-13	Vertical

LTE band 5

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	ERP (dBm)	ERP (W)
Band5	QPSK	1.4	20407	1#0	20.37	0.109
Band5	QPSK	1.4	20525	1#0	20.42	0.110
Band5	QPSK	1.4	20643	1#0	20.49	0.112
Band5	16QAM	1.4	20407	1#0	19.07	0.081
Band5	16QAM	1.4	20525	1#0	19.11	0.081
Band5	16QAM	1.4	20643	1#0	19.20	0.083
Band5	64QAM	1.4	20407	1#0	19.29	0.085
Band5	64QAM	1.4	20525	1#0	19.33	0.086
Band5	64QAM	1.4	20643	1#0	19.41	0.087
Band5	QPSK	3	20415	1#0	20.28	0.107
Band5	QPSK	3	20525	1#0	20.34	0.108
Band5	QPSK	3	20635	1#0	20.48	0.112
Band5	16QAM	3	20415	1#0	19.07	0.081
Band5	16QAM	3	20525	1#0	19.03	0.080
Band5	16QAM	3	20635	1#0	19.20	0.083
Band5	64QAM	3	20415	1#0	19.26	0.084
Band5	64QAM	3	20525	1#0	19.24	0.084
Band5	64QAM	3	20635	1#0	19.37	0.086
Band5	QPSK	5	20425	1#0	20.36	0.109
Band5	QPSK	5	20525	1#0	20.39	0.109
Band5	QPSK	5	20625	1#0	20.47	0.111
Band5	16QAM	5	20425	1#0	19.06	0.081
Band5	16QAM	5	20525	1#0	19.06	0.081
Band5	16QAM	5	20625	1#0	19.23	0.084
Band5	64QAM	5	20425	1#0	19.24	0.084
Band5	64QAM	5	20525	1#0	19.30	0.085
Band5	64QAM	5	20625	1#0	19.45	0.088
Band5	QPSK	10	20450	1#0	20.44	0.111
Band5	QPSK	10	20525	1#0	20.50	0.112
Band5	QPSK	10	20600	1#0	20.57	0.114
Band5	16QAM	10	20450	1#0	19.18	0.083
Band5	16QAM	10	20525	1#0	19.19	0.083
Band5	16QAM	10	20600	1#0	19.30	0.085
Band5	64QAM	10	20450	1#0	19.35	0.086
Band5	64QAM	10	20525	1#0	19.40	0.087
Band5	64QAM	10	20600	1#0	19.50	0.089

Test result:  
Channel 20450

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.35	-53.34	-13	Vertical
1668.66	-50.96	-13	Vertical
2535.91	-43.92	-13	Vertical
2577.67	-44.20	-13	Vertical
8961.93	-39.39	-13	Vertical
9973.31	-36.86	-13	Vertical

Channel 20525

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.43	-53.41	-13	Vertical
1666.09	-51.74	-13	Vertical
2534.88	-44.25	-13	Vertical
2577.91	-43.72	-13	Vertical
8961.08	-39.46	-13	Vertical
9970.75	-36.26	-13	Vertical

Channel 20600

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.24	-52.76	-13	Vertical
1666.01	-51.70	-13	Vertical
2533.88	-43.93	-13	Vertical
2576.80	-44.13	-13	Vertical
8962.46	-39.51	-13	Vertical
9971.91	-36.44	-13	Vertical

LTE band 7

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	EIRP (dBm)	EIRP (W)
Band7	QPSK	5	20775	1#0	22.96	0.198
Band7	QPSK	5	21100	1#0	23.00	0.200
Band7	QPSK	5	21425	1#0	23.02	0.200
Band7	16QAM	5	20775	1#0	22.41	0.174
Band7	16QAM	5	21100	1#0	22.46	0.176
Band7	16QAM	5	21425	1#0	22.38	0.173
Band7	64QAM	5	20775	1#0	22.18	0.165
Band7	64QAM	5	21100	1#0	22.26	0.168
Band7	64QAM	5	21425	1#0	22.27	0.169
Band7	QPSK	10	20800	1#0	22.96	0.198
Band7	QPSK	10	21100	1#0	23.00	0.200
Band7	QPSK	10	21400	1#0	22.96	0.198
Band7	16QAM	10	20800	1#0	22.37	0.173
Band7	16QAM	10	21100	1#0	22.37	0.173
Band7	16QAM	10	21400	1#0	22.29	0.169
Band7	64QAM	10	20800	1#0	22.16	0.164
Band7	64QAM	10	21100	1#0	22.18	0.165
Band7	64QAM	10	21400	1#0	22.23	0.167
Band7	QPSK	15	20825	1#0	22.98	0.199
Band7	QPSK	15	21100	1#0	23.03	0.201
Band7	QPSK	15	21375	1#0	23.02	0.200
Band7	16QAM	15	20825	1#0	22.40	0.174
Band7	16QAM	15	21100	1#0	22.39	0.173
Band7	16QAM	15	21375	1#0	22.39	0.173
Band7	64QAM	15	20825	1#0	22.16	0.164
Band7	64QAM	15	21100	1#0	22.27	0.169
Band7	64QAM	15	21375	1#0	22.24	0.167
Band7	QPSK	20	20850	1#0	23.06	0.202
Band7	QPSK	20	21100	1#0	23.10	0.204
Band7	QPSK	20	21350	1#0	23.09	0.204
Band7	16QAM	20	20850	1#0	22.51	0.178
Band7	16QAM	20	21100	1#0	22.53	0.179
Band7	16QAM	20	21350	1#0	22.44	0.175
Band7	64QAM	20	20850	1#0	22.29	0.169
Band7	64QAM	20	21100	1#0	22.36	0.172
Band7	64QAM	20	21350	1#0	22.34	0.171

Test result:  
Channel 20850

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.16	-48.56	-25	Vertical
2778.18	-47.31	-25	Vertical
3725.67	-41.22	-25	Vertical
6675.15	-39.97	-25	Vertical
9962.44	-37.41	-25	Vertical
17820.50	-33.46	-25	Vertical

Channel 21100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.18	-49.20	-25	Vertical
2780.91	-47.13	-25	Vertical
3726.92	-41.22	-25	Vertical
6677.68	-39.20	-25	Vertical
9960.99	-36.88	-25	Vertical
17821.63	-34.44	-25	Vertical

Channel 21350

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.59	-48.80	-25	Vertical
2778.73	-47.32	-25	Vertical
3725.91	-40.83	-25	Vertical
6676.43	-39.31	-25	Vertical
9961.62	-37.12	-25	Vertical
17819.75	-34.10	-25	Vertical



LTE band 12

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	ERP (dBm)	ERP (W)
Band12	QPSK	1.4	23017	1#0	19.58	0.091
Band12	QPSK	1.4	23095	1#0	19.70	0.093
Band12	QPSK	1.4	23173	1#0	19.70	0.093
Band12	16QAM	1.4	23017	1#0	18.39	0.069
Band12	16QAM	1.4	23095	1#0	18.43	0.070
Band12	16QAM	1.4	23173	1#0	18.37	0.069
Band12	64QAM	1.4	23017	1#0	18.49	0.071
Band12	64QAM	1.4	23095	1#0	18.60	0.072
Band12	64QAM	1.4	23173	1#0	18.56	0.072
Band12	QPSK	3	23025	1#0	19.54	0.090
Band12	QPSK	3	23095	1#0	19.71	0.094
Band12	QPSK	3	23165	1#0	19.62	0.092
Band12	16QAM	3	23025	1#0	18.31	0.068
Band12	16QAM	3	23095	1#0	18.40	0.069
Band12	16QAM	3	23165	1#0	18.28	0.067
Band12	64QAM	3	23025	1#0	18.49	0.071
Band12	64QAM	3	23095	1#0	18.59	0.072
Band12	64QAM	3	23165	1#0	18.54	0.071
Band12	QPSK	5	23035	1#0	19.52	0.090
Band12	QPSK	5	23095	1#0	19.68	0.093
Band12	QPSK	5	23155	1#0	19.66	0.092
Band12	16QAM	5	23035	1#0	18.38	0.069
Band12	16QAM	5	23095	1#0	18.39	0.069
Band12	16QAM	5	23155	1#0	18.34	0.068
Band12	64QAM	5	23035	1#0	18.46	0.070
Band12	64QAM	5	23095	1#0	18.59	0.072
Band12	64QAM	5	23155	1#0	18.58	0.072
Band12	QPSK	10	23060	1#0	19.63	0.092
Band12	QPSK	10	23095	1#0	19.79	0.095
Band12	QPSK	10	23130	1#0	19.75	0.094
Band12	16QAM	10	23060	1#0	18.45	0.070
Band12	16QAM	10	23095	1#0	18.50	0.071
Band12	16QAM	10	23130	1#0	18.44	0.070
Band12	64QAM	10	23060	1#0	18.57	0.072
Band12	64QAM	10	23095	1#0	18.70	0.074
Band12	64QAM	10	23130	1#0	18.67	0.074

Test result:

Channel 23060

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.31	-53.49	-13	Vertical
1667.88	-51.24	-13	Vertical
2533.27	-43.96	-13	Vertical
2577.01	-44.02	-13	Vertical
8962.78	-39.75	-13	Vertical
9970.22	-36.24	-13	Vertical

Channel 23095

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.64	-53.00	-13	Vertical
1667.28	-50.86	-13	Vertical
2533.19	-44.71	-13	Vertical
2575.38	-44.50	-13	Vertical
8962.95	-39.98	-13	Vertical
9972.70	-36.44	-13	Vertical

Channel 23130

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.51	-53.47	-13	Vertical
1665.37	-50.83	-13	Vertical
2534.60	-44.13	-13	Vertical
2575.31	-44.19	-13	Vertical
8962.78	-39.16	-13	Vertical
9972.02	-35.98	-13	Vertical

Test with secondary supply:

LTE Band 4 channel 20175 is selected as the worst point for RSE.

LTE Band 4 channel 20175:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.60	-48.50	-13	Vertical
2781.05	-47.69	-13	Vertical
3728.19	-41.26	-13	Vertical
6675.52	-39.23	-13	Vertical
9960.71	-37.13	-13	Vertical
17819.41	-34.39	-13	Vertical

---End of Test Report---