



Report No.: SUCR240100000801

Rev.: 01

Page: 1 of 5

Appendix B.12

LTE Band 18(815-824)



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Report No.: SUCR240100000801

Rev.: 01

Page: 2 of 5

Transmitter Conducted Power Output Test ResultAnt0

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Limit (dBm)	Verdict
18(815-824)	5MHz	QPSK	23875	1RB#0	23.11	50.00	PASS
18(815-824)	5MHz	16QAM	23875	1RB#0	22.34	50.00	PASS
18(815-824)	5MHz	QPSK	23875	1RB#12	23.31	50.00	PASS
18(815-824)	5MHz	16QAM	23875	1RB#12	22.45	50.00	PASS
18(815-824)	5MHz	QPSK	23875	1RB#24	23.22	50.00	PASS
18(815-824)	5MHz	16QAM	23875	1RB#24	22.5	50.00	PASS
18(815-824)	5MHz	QPSK	23875	25RB#0	22.17	50.00	PASS
18(815-824)	5MHz	16QAM	23875	25RB#0	21.18	50.00	PASS
18(815-824)	5MHz	QPSK	23895	1RB#0	23.2	50.00	PASS
18(815-824)	5MHz	16QAM	23895	1RB#0	22.25	50.00	PASS
18(815-824)	5MHz	QPSK	23895	1RB#12	23.36	50.00	PASS
18(815-824)	5MHz	16QAM	23895	1RB#12	22.32	50.00	PASS
18(815-824)	5MHz	QPSK	23895	1RB#24	23.35	50.00	PASS
18(815-824)	5MHz	16QAM	23895	1RB#24	22.15	50.00	PASS
18(815-824)	5MHz	QPSK	23895	25RB#0	22.23	50.00	PASS
18(815-824)	5MHz	16QAM	23895	25RB#0	21.19	50.00	PASS
18(815-824)	5MHz	QPSK	23915	1RB#0	23.2	50.00	PASS
18(815-824)	5MHz	16QAM	23915	1RB#0	22.29	50.00	PASS
18(815-824)	5MHz	QPSK	23915	1RB#12	23.33	50.00	PASS
18(815-824)	5MHz	16QAM	23915	1RB#12	22.36	50.00	PASS
18(815-824)	5MHz	QPSK	23915	1RB#24	23.25	50.00	PASS
18(815-824)	5MHz	16QAM	23915	1RB#24	22.15	50.00	PASS
18(815-824)	5MHz	QPSK	23915	25RB#0	22.25	50.00	PASS
18(815-824)	5MHz	16QAM	23915	25RB#0	21.3	50.00	PASS



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Report No.: SUCR240100000801

Rev.: 01

Page: 3 of 5

Field Strength of Spurious Radiation

Test Band = LTE_18 (815-824) _TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1630.5	58.70	-47.56	25.34	-58.78	-13.00	45.78	Horizontal
2	2446	64.33	-46.65	27.58	-50.00	-13.00	37.00	Horizontal
3	2552.5	51.26	-46.42	27.81	-62.61	-13.00	49.61	Horizontal
4	4190.5	45.27	-43.85	29.56	-64.28	-13.00	51.28	Horizontal
5	5524.5	49.48	-41.87	32.30	-55.35	-13.00	42.35	Horizontal
6	7401.5	41.72	-38.35	36.70	-55.19	-13.00	42.19	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1630.5	56.90	-47.56	25.34	-60.58	-13.00	47.58	Vertical
2	2446	63.11	-46.65	27.58	-51.22	-13.00	38.22	Vertical
3	3593	46.77	-44.55	28.91	-64.13	-13.00	51.13	Vertical
4	5524.5	49.31	-41.87	32.30	-55.52	-13.00	42.52	Vertical
5	7421	41.71	-38.36	36.74	-55.17	-13.00	42.17	Vertical
6	8956	40.56	-35.97	36.88	-53.79	-13.00	40.79	Vertical



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Rev.: 01

Page: 4 of 5

Test Band = LTE_18 (815-824) _TM1

Test Channel = MCH

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1634.5	58.70	-47.55	25.38	-58.73	-13.00	45.73	Horizontal
2	2452	64.49	-46.65	27.61	-49.81	-13.00	36.81	Horizontal
3	3692.5	47.00	-44.48	29.30	-63.44	-13.00	50.44	Horizontal
4	5524.5	49.13	-41.87	32.30	-55.70	-13.00	42.70	Horizontal
5	7408	42.27	-38.35	36.72	-54.62	-13.00	41.62	Horizontal
6	9561.5	40.11	-35.84	37.80	-53.19	-13.00	40.19	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1634.5	58.41	-47.55	25.38	-59.02	-13.00	46.02	Vertical
2	2452	62.84	-46.65	27.61	-51.46	-13.00	38.46	Vertical
3	3573.5	46.97	-44.74	28.95	-64.08	-13.00	51.08	Vertical
4	5524.5	49.15	-41.87	32.30	-55.68	-13.00	42.68	Vertical
5	7430.5	41.67	-38.36	36.76	-55.19	-13.00	42.19	Vertical
6	9561	40.34	-35.84	37.80	-52.96	-13.00	39.96	Vertical



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Rev.: 01
Page: 5 of 5

Test Band = LTE_18 (815-824) _TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1638.5	60.70	-47.54	25.41	-56.69	-13.00	43.69	Horizontal
2	2458	64.63	-46.66	27.63	-49.66	-13.00	36.66	Horizontal
3	3646.5	46.81	-44.48	29.27	-63.66	-13.00	50.66	Horizontal
4	5524.5	48.76	-41.87	32.30	-56.07	-13.00	43.07	Horizontal
5	7200	40.77	-38.76	36.60	-56.65	-13.00	43.65	Horizontal
6	9977.5	39.55	-35.59	38.68	-52.62	-13.00	39.62	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1639	59.60	-47.54	25.41	-57.79	-13.00	44.79	Vertical
2	2458	65.49	-46.66	27.63	-48.80	-13.00	35.80	Vertical
3	3675	46.57	-44.48	29.30	-63.87	-13.00	50.87	Vertical
4	5524.5	49.05	-41.87	32.30	-55.78	-13.00	42.78	Vertical
5	7407.5	41.96	-38.35	36.72	-54.93	-13.00	41.93	Vertical
6	9977.5	39.55	-35.59	38.68	-52.62	-13.00	39.62	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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