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Appendix B.10

LTE Band 18(815-824)



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Transmitter Conducted Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
18(815-824)	5MHz	QPSK	23875	1RB#0	23.25	50.00	PASS
18(815-824)	5MHz	16QAM	23875	1RB#0	22.24	50.00	PASS
18(815-824)	5MHz	QPSK	23875	1RB#12	23.39	50.00	PASS
18(815-824)	5MHz	16QAM	23875	1RB#12	22.31	50.00	PASS
18(815-824)	5MHz	QPSK	23875	1RB#24	23.24	50.00	PASS
18(815-824)	5MHz	16QAM	23875	1RB#24	22.24	50.00	PASS
18(815-824)	5MHz	QPSK	23875	25RB#0	22.29	50.00	PASS
18(815-824)	5MHz	16QAM	23875	25RB#0	21.26	50.00	PASS
18(815-824)	5MHz	QPSK	23895	1RB#0	23.23	50.00	PASS
18(815-824)	5MHz	16QAM	23895	1RB#0	22.38	50.00	PASS
18(815-824)	5MHz	QPSK	23895	1RB#12	23.35	50.00	PASS
18(815-824)	5MHz	16QAM	23895	1RB#12	22.52	50.00	PASS
18(815-824)	5MHz	QPSK	23895	1RB#24	23.22	50.00	PASS
18(815-824)	5MHz	16QAM	23895	1RB#24	22.39	50.00	PASS
18(815-824)	5MHz	QPSK	23895	25RB#0	22.28	50.00	PASS
18(815-824)	5MHz	16QAM	23895	25RB#0	21.21	50.00	PASS
18(815-824)	5MHz	QPSK	23915	1RB#0	23.27	50.00	PASS
18(815-824)	5MHz	16QAM	23915	1RB#0	22.22	50.00	PASS
18(815-824)	5MHz	QPSK	23915	1RB#12	23.41	50.00	PASS
18(815-824)	5MHz	16QAM	23915	1RB#12	22.34	50.00	PASS
18(815-824)	5MHz	QPSK	23915	1RB#24	23.26	50.00	PASS
18(815-824)	5MHz	16QAM	23915	1RB#24	22.05	50.00	PASS
18(815-824)	5MHz	QPSK	23915	25RB#0	22.24	50.00	PASS
18(815-824)	5MHz	16QAM	23915	25RB#0	21.19	50.00	PASS



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
18(815-824)	5MHz	QPSK	23875	25RB#0	4.492	5.05	PASS
18(815-824)	5MHz	16QAM	23875	25RB#0	4.51	5.09	PASS
18(815-824)	5MHz	QPSK	23895	25RB#0	4.493	5.13	PASS
18(815-824)	5MHz	16QAM	23895	25RB#0	4.52	5.19	PASS
18(815-824)	5MHz	QPSK	23915	25RB#0	4.506	5.14	PASS
18(815-824)	5MHz	16QAM	23915	25RB#0	4.519	5.07	PASS



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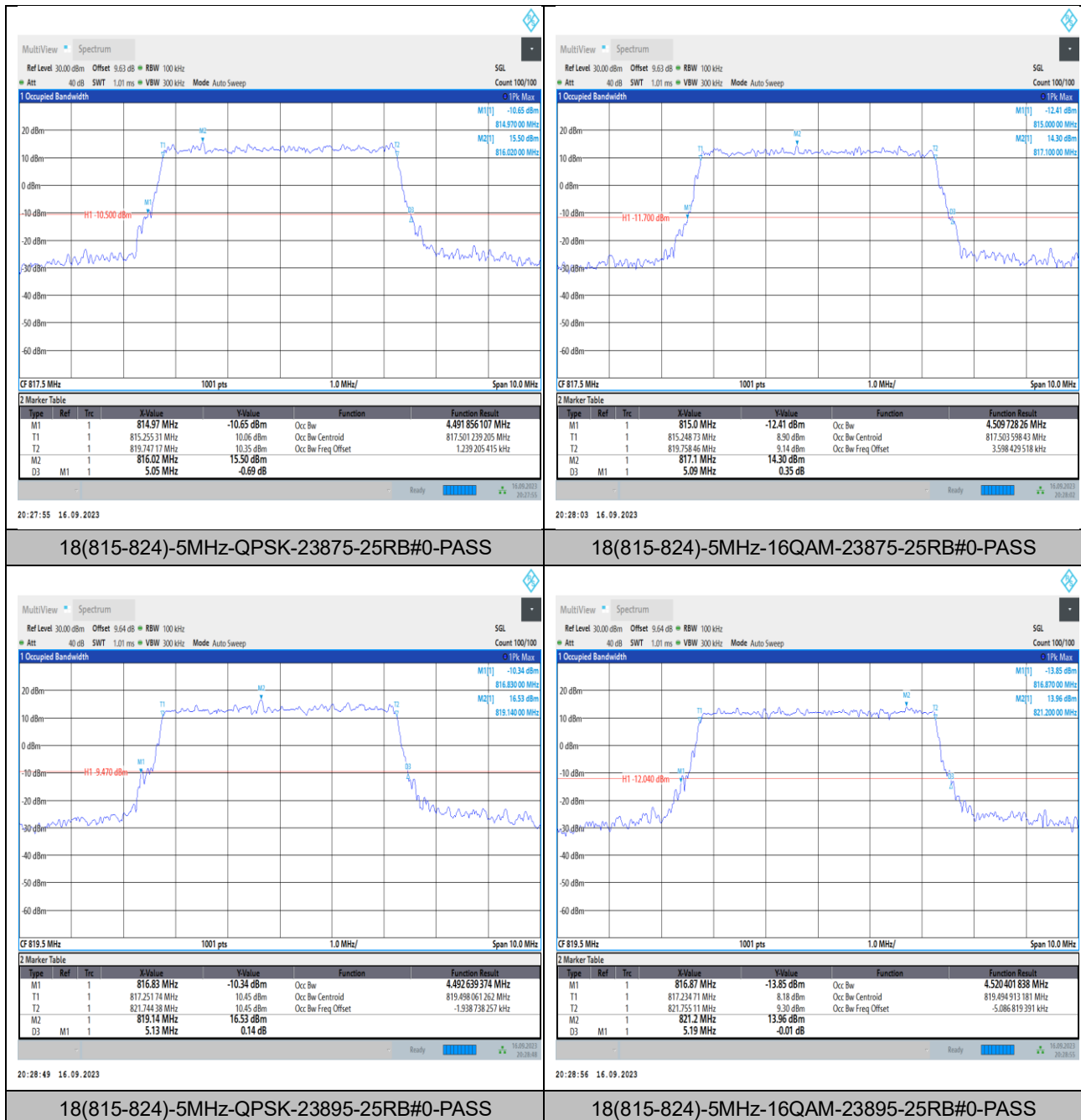
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Test Graphs



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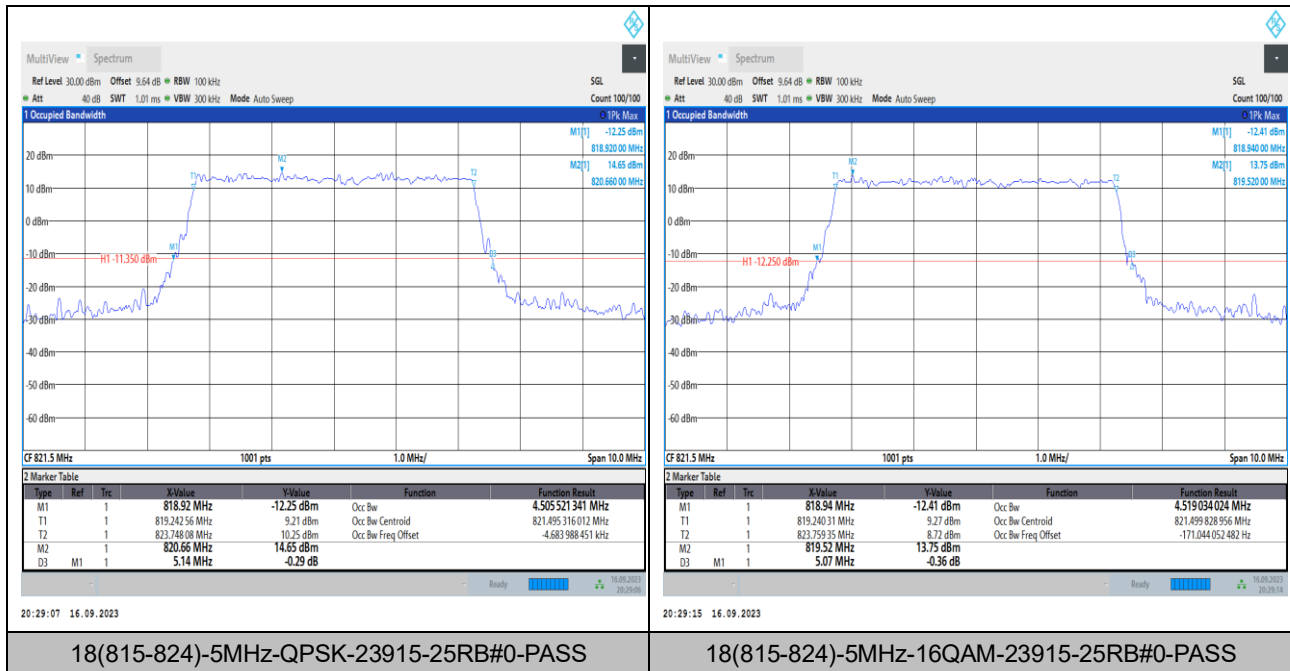
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18(815-824)-5MHz-QPSK-23915-25RB#0-PASS

18(815-824)-5MHz-16QAM-23915-25RB#0-PASS

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Field Strength of Spurious Radiation

Test Band = LTE_18 (815-824)

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.58	-47.24	24.13	-63.79	-13.00	50.79	Horizontal
2	1630.5	59.13	-47.56	25.34	-58.35	-13.00	45.35	Horizontal
3	2446	54.26	-46.65	27.58	-60.07	-13.00	47.07	Horizontal
4	5524.5	49.99	-41.87	32.30	-54.84	-13.00	41.84	Horizontal
5	7401.5	43.85	-38.35	36.70	-53.06	-13.00	40.06	Horizontal
6	9910	41.65	-35.33	38.61	-50.33	-13.00	37.33	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.61	-47.24	24.13	-64.76	-13.00	51.76	Vertical
2	1630.5	60.96	-47.56	25.34	-56.52	-13.00	43.52	Vertical
3	2446	53.20	-46.65	27.58	-61.13	-13.00	48.13	Vertical
4	4008	46.24	-43.96	29.77	-63.21	-13.00	50.21	Vertical
5	5524.5	49.27	-41.87	32.30	-55.56	-13.00	42.56	Vertical
6	9886	41.89	-35.32	38.49	-50.20	-13.00	37.20	Vertical



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Test Band = LTE_18 (815-824)

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.19	-47.24	24.13	-63.18	-13.00	50.18	Horizontal
2	1634.5	53.66	-47.55	25.38	-63.77	-13.00	50.77	Horizontal
3	2046.5	54.03	-46.90	26.31	-61.82	-13.00	48.82	Horizontal
4	2540.5	54.02	-46.48	27.80	-59.92	-13.00	46.92	Horizontal
5	5524.5	50.00	-41.87	32.30	-54.83	-13.00	41.83	Horizontal
6	8484.5	42.42	-36.41	36.47	-52.78	-13.00	39.78	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.38	-47.24	24.13	-64.99	-13.00	51.99	Vertical
2	1634.5	48.91	-47.55	25.38	-68.52	-13.00	55.52	Vertical
3	2540.5	55.14	-46.48	27.80	-58.80	-13.00	45.80	Vertical
4	3955	46.38	-44.16	29.89	-63.15	-13.00	50.15	Vertical
5	5524.5	48.78	-41.87	32.30	-56.05	-13.00	43.05	Vertical
6	8480.5	42.43	-36.44	36.46	-52.81	-13.00	39.81	Vertical



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Test Band = LTE_18 (815-824)

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.83	-47.24	24.13	-63.54	-13.00	50.54	Horizontal
2	1638.5	55.13	-47.54	25.41	-62.26	-13.00	49.26	Horizontal
3	2458.5	51.29	-46.66	27.63	-63.00	-13.00	50.00	Horizontal
4	3955.5	46.46	-44.15	29.89	-63.06	-13.00	50.06	Horizontal
5	5524.5	49.69	-41.87	32.30	-55.14	-13.00	42.14	Horizontal
6	8491	42.70	-36.37	36.48	-52.45	-13.00	39.45	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.02	-47.24	24.13	-65.35	-13.00	52.35	Vertical
2	1638.5	49.98	-47.54	25.41	-67.41	-13.00	54.41	Vertical
3	2540.5	54.98	-46.48	27.80	-58.96	-13.00	45.96	Vertical
4	3955.5	46.43	-44.15	29.89	-63.09	-13.00	50.09	Vertical
5	5524.5	49.48	-41.87	32.30	-55.35	-13.00	42.35	Vertical
6	8448	42.78	-36.68	36.40	-52.76	-13.00	39.76	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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