

Appendix B.20

LTE CA_38C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	23.71	26.17	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	22.65	25.11	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	23.76	26.22	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	22.64	25.1	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.75	26.21	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	22.57	25.03	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	23.02	25.48	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	21.63	24.09	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	23.1	25.56	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	21.65	24.11	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	23.07	25.53	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	21.58	24.04	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	22.23	24.69	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	21.61	24.07	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	22.21	24.67	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	21.64	24.1	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	22.21	24.67	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	21.6	24.06	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	19.13	21.59	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	19.66	22.12	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	19.2	21.66	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	19.67	22.13	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	19.1	21.56	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	19.63	22.09	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	22.62	25.08	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	23.79	26.25	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	22.63	25.09	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.76	26.22	33	PASS



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38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	22.63	25.09	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	23.73	26.19	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	21.61	24.07	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	23.13	25.59	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	21.62	24.08	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	22.99	25.45	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	21.63	24.09	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	23.03	25.49	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	21.6	24.06	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	22.4	24.86	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	21.58	24.04	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	22.27	24.73	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	21.67	24.13	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	22.2	24.66	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	19.63	22.09	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	19.36	21.82	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	19.64	22.1	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	19.2	21.66	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	19.66	22.12	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	19.17	21.63	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE CA_38C_TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.75	-45.33	32.96	-66.88	-25.00	41.88	154	165	Horizontal
2	7713.2700	39.75	-43.01	36.61	-61.91	-25.00	36.91	126	0	Horizontal
3	10284.3600	34.49	-39.15	38.83	-61.09	-25.00	36.09	132	178	Horizontal
4	12855.4500	31.32	-36.99	39.69	-61.24	-25.00	36.24	155	178	Horizontal
5	15426.5400	29.56	-33.99	38.67	-61.02	-25.00	36.02	196	330	Horizontal
6	17997.6300	32.90	-34.58	42.23	-54.70	-25.00	29.70	148	73	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.83	-45.33	32.96	-66.80	-25.00	41.80	245	121	Vertical
2	7713.2700	40.06	-43.01	36.61	-61.60	-25.00	36.60	125	227	Vertical
3	10284.3600	34.28	-39.15	38.83	-61.30	-25.00	36.30	136	317	Vertical
4	12855.4500	31.63	-36.99	39.69	-60.93	-25.00	35.93	259	91	Vertical
5	15426.5400	29.62	-33.99	38.67	-60.96	-25.00	35.96	146	301	Vertical
6	17997.6300	32.96	-34.58	42.23	-54.64	-25.00	29.64	194	30	Vertical



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Test Band = LTE CA_38C_TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3958.5	46.46	-46.14	30.70	-64.24	-25.00	39.24	142	256	Horizontal
2	5152.3800	40.11	-45.32	32.96	-67.51	-25.00	42.51	126	317	Horizontal
3	7728.5700	39.03	-42.89	36.64	-62.48	-25.00	37.48	154	357	Horizontal
4	10304.7600	33.62	-39.09	38.84	-61.89	-25.00	36.89	163	59	Horizontal
5	12880.9500	31.69	-37.06	39.71	-60.92	-25.00	35.92	259	105	Horizontal
6	15457.1400	29.55	-34.57	38.63	-61.65	-25.00	36.65	174	357	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4272.75	43.16	-45.60	31.25	-66.45	-25.00	41.45	199	0	Vertical
2	5152.3800	41.29	-45.32	32.96	-66.33	-25.00	41.33	152	0	Vertical
3	7728.5700	38.82	-42.89	36.64	-62.69	-25.00	37.69	211	1	Vertical
4	10304.7600	33.97	-39.09	38.84	-61.54	-25.00	36.54	136	8	Vertical
5	12880.9500	31.23	-37.06	39.71	-61.38	-25.00	36.38	256	18	Vertical
6	15457.1400	30.11	-34.57	38.63	-61.09	-25.00	36.09	142	8	Vertical



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Test Band = LTE CA_38C_TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3956.25	45.18	-46.15	30.70	-65.53	-25.00	40.53	245	256	Horizontal
2	5162.5800	40.41	-45.31	32.97	-67.19	-25.00	42.19	163	150	Horizontal
3	7743.8700	40.05	-42.76	36.67	-61.30	-25.00	36.30	126	356	Horizontal
4	10325.1600	33.73	-39.07	38.84	-61.76	-25.00	36.76	199	330	Horizontal
5	12906.4500	31.24	-37.12	39.74	-61.41	-25.00	36.41	158	357	Horizontal
6	15487.7400	28.56	-35.15	38.59	-63.26	-25.00	38.26	140	164	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4053.75	43.53	-45.89	30.88	-66.74	-25.00	41.74	145	43	Vertical
2	5162.5800	40.01	-45.31	32.97	-67.59	-25.00	42.59	126	301	Vertical
3	7743.8700	39.23	-42.76	36.67	-62.12	-25.00	37.12	259	238	Vertical
4	10325.1600	33.88	-39.07	38.84	-61.61	-25.00	36.61	145	1	Vertical
5	12906.4500	30.97	-37.12	39.74	-61.68	-25.00	36.68	163	356	Vertical
6	15487.7400	28.32	-35.15	38.59	-63.50	-25.00	38.50	251	59	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:

 $AF = \text{Antenna Factor (dB/m)}$
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Pre-amplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$

---End of Attachment---



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