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7. Field Strength of Spurious Radiation

7.1. Test Band LTE_Band7 _TM1

7.1.1. Test Channel Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	35.5293	-85.11	-55.98	-25.00	30.98	Horizontal
2	234.0982	-96.54	-71.72	-25.00	46.72	Horizontal
3	1345.9000	-75.12	-55.84	-25.00	30.84	Horizontal
4	5308.2000	-47.89	-46.40	-25.00	21.40	Horizontal
5	12703.200	-52.45	-41.22	-25.00	16.22	Horizontal
6	17914.800	-49.63	-35.58	-25.00	10.58	Horizontal

7.2. Test Band LTE_Band7 _TM1

7.2.1. Test Channel Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	107.3129	-96.24	-67.42	-25.00	42.42	Vertical
2	579.2415	-96.13	-69.90	-25.00	44.90	Vertical
3	1323.8000	-74.13	-55.12	-25.00	30.12	Vertical
4	5138.4000	-45.68	-47.05	-25.00	22.05	Vertical
5	7591.8000	-38.48	-36.86	-25.00	11.86	Vertical
6	12652.200	-46.44	-36.92	-25.00	11.92	Vertical
7	17986.200	-50.71	-31.24	-25.00	6.24	Vertical

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7.3. Test Band LTE_Band7 _TM1**7.3.1. Test Channel Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	35.0928	-84.29	-55.30	-25.00	30.30	Horizontal
2	631.6726	-96.43	-69.39	-25.00	44.39	Horizontal
3	1481.5000	-71.78	-52.11	-25.00	27.11	Horizontal
4	5265.0000	-47.12	-46.27	-25.00	21.27	Horizontal
5	10904.400	-49.63	-41.07	-25.00	16.07	Horizontal
6	16398.000	-51.67	-35.85	-25.00	10.85	Horizontal

7.4. Test Band LTE_Band7 _TM1**7.4.1. Test Channel Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	31.6976	-85.12	-67.15	-25.00	42.15	Vertical
2	111.7751	-97.61	-68.38	-25.00	43.38	Vertical
3	1455.2000	-74.94	-55.29	-25.00	30.29	Vertical
4	7591.8000	-40.77	-39.15	-25.00	14.15	Vertical
5	12652.800	-46.64	-37.12	-25.00	12.12	Vertical
6	17994.600	-51.07	-31.62	-25.00	6.62	Vertical

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7.5. Test Band LTE_Band7_TM1**7.5.1. Test Channel High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	36.0628	-85.38	-56.07	-25.00	31.07	Horizontal
2	1392.2000	-75.47	-56.00	-25.00	31.00	Horizontal
3	5091.0000	-46.92	-47.98	-25.00	22.98	Horizontal
4	9292.8000	-50.96	-44.20	-25.00	19.20	Horizontal
5	12778.200	-49.80	-38.07	-25.00	13.07	Horizontal
6	17965.200	-50.74	-35.96	-25.00	10.96	Horizontal

7.6. Test Band LTE_Band7_TM1**7.6.1. Test Channel High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	112.5026	-96.84	-67.69	-25.00	42.69	Vertical
2	1487.7000	-75.61	-55.74	-25.00	30.74	Vertical
3	5304.0000	-49.15	-48.12	-25.00	23.12	Vertical
4	7666.8000	-36.31	-35.22	-25.00	10.22	Vertical
5	12777.600	-46.78	-36.60	-25.00	11.60	Vertical
6	17917.200	-49.91	-31.06	-25.00	6.06	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-25.60	-0.010199	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-15.10	-0.006016	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-2.10	-0.000837	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-46.70	-0.018422	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-8.60	-0.003393	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	1.10	0.000434	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-15.50	-0.006055	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	1.80	0.000703	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-4.20	-0.001641	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	-33.80	-0.013466	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	15.20	0.006056	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	10.90	0.004343	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VL	NT	-1.30	-0.000513	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	-9.50	-0.003748	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	-34.60	-0.013516	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	5.90	0.002305	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	-10.60	-0.004141	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-26.30	-0.010478	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-39.30	-0.015657	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-32.70	-0.013028	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	5.80	0.002288	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-6.70	-0.002643	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	1.10	0.000434	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-17.80	-0.006953	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-15.00	-0.005859	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-23.00	-0.008984	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-28.80	-0.011474	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-14.70	-0.005857	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	-9.50	-0.003785	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-26.30	-0.010478	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-11.00	-0.004382	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-31.60	-0.012590	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-49.30	-0.019641	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-21.30	-0.008486	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-3.60	-0.001434	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-9.90	-0.003905	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-14.80	-0.005838	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-25.60	-0.010099	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-35.10	-0.013846	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-40.60	-0.016016	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	10.00	0.003945	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	9.70	0.003826	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-1.70	-0.000671	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	0.80	0.000316	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-15.30	-0.005977	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-25.80	-0.010078	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	-37.80	-0.014766	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-32.20	-0.012578	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-11.30	-0.004414	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-0.60	-0.000234	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-10.70	-0.004180	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-18.60	-0.007266	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-20.20	-0.007891	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	-39.40	-0.015697	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	-41.80	-0.016653	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-10	-33.90	-0.013506	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	-34.50	-0.013745	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	4.60	0.001833	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	-37.00	-0.014741	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	-21.40	-0.008526	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	40	-34.40	-0.013705	±2.5	PASS

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Band7	20MHz	64QAM	20850	100RB#0	NV	50	-45.80	-0.018247	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	4.00	0.001578	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	19.90	0.007850	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-10	21.60	0.008521	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	28.00	0.011045	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	26.00	0.010256	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	24.00	0.009467	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	37.10	0.014635	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	31.50	0.012426	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	30.10	0.011874	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-30	-28.30	-0.011055	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	-45.00	-0.017578	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-10	-22.00	-0.008594	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	-28.60	-0.011172	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	-40.10	-0.015664	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	-35.50	-0.013867	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	-23.90	-0.009336	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	-16.40	-0.006406	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	-2.50	-0.000977	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-21.90	-0.008725	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-31.70	-0.012629	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-10	-29.00	-0.011554	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-38.50	-0.015339	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	22.80	0.009084	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	14.90	0.005936	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-1.40	-0.000558	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-0.40	-0.000159	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-22.20	-0.008845	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	13.50	0.005325	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	19.70	0.007771	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-10	28.30	0.011164	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	19.40	0.007653	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	8.00	0.003156	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	15.70	0.006193	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	18.70	0.007377	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	15.20	0.005996	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	6.50	0.002564	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-21.50	-0.008398	±2.5	PASS

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Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-11.30	-0.004414	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-10	-14.70	-0.005742	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-15.30	-0.005977	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-7.20	-0.002813	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-0.10	-0.000039	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-3.60	-0.001406	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-6.00	-0.002344	±2.5	PASS



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