



# Appendix B

## LTE B4/12/41



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	20393	1RB#0	20.26	18.86	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	20.32	18.92	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	20.31	18.91	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	20.30	18.90	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	20.36	18.96	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	20.22	18.82	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	19.34	17.94	30.00	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	10MHz	QPSK	23130	1RB#24	23.47	15.92	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.82	16.27	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.72	16.17	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.73	15.18	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.61	15.06	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.55	15.00	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.48	14.93	34.77	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	40620	1RB#24	21.78	11.88	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	21.96	12.06	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	21.88	11.98	33	PASS
Band41	5MHz	QPSK	40620	12RB#0	20.86	10.96	33	PASS
Band41	5MHz	QPSK	40620	12RB#6	20.91	11.01	33	PASS
Band41	5MHz	QPSK	40620	12RB#13	20.81	10.91	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	20.94	11.04	33	PASS



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Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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## 2. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE\_Band=4 BW=20MHz\_TM1

#### 7.1.1. Test Channel = LOW Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.2163	-72.42	-63.39	-13.00	50.39	Horizontal
2	215.1488	-72.82	-70.35	-13.00	57.35	Horizontal
3	997.4538	-73.55	-55.59	-13.00	42.59	Horizontal
4	2462.7500	-28.31	-19.09	-13.00	6.09	Horizontal
5	10956.265	-58.98	-50.31	-13.00	37.31	Horizontal
6	16416.947	-57.77	-42.57	-13.00	29.57	Horizontal

### 7.2. Test Band = LTE\_Band=4 BW=20MHz\_TM1

#### 7.2.1. Test Channel = LOW Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	78.3788	-72.76	-68.80	-13.00	55.80	Vertical
2	497.9038	-72.48	-65.86	-13.00	52.86	Vertical
3	998.7875	-73.91	-56.00	-13.00	43.00	Vertical
4	2402.0000	-44.41	-36.70	-13.00	23.70	Vertical
5	5133.0711	-50.70	-52.07	-13.00	39.07	Vertical
6	17994.999	-58.38	-38.93	-13.00	25.93	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 above 18GHz and 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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