

# Appendix B

## E-UTRA Band 12



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.57	23.42	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.88	23.73	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.87	23.72	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.75	23.60	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.00	23.85	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.82	23.67	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.96	22.81	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.78	23.63	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.77	23.62	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.07	23.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.88	23.73	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.96	23.81	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.02	23.87	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.98	22.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.81	23.66	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.00	23.85	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.84	23.69	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.97	23.82	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.85	23.70	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.92	23.77	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.93	22.78	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.80	22.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.50	22.35	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.69	22.54	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.84	22.69	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.90	22.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.74	22.59	34.77	PASS

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Band12	1.4MHz	16QAM	23017	6RB#0	21.96	21.81	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.10	22.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.04	22.89	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.93	22.78	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	23.06	22.91	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.98	22.83	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	23.18	23.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.09	21.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.79	22.64	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.97	22.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.72	22.57	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.10	22.95	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.91	22.76	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.97	22.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.87	21.72	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.60	23.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.80	23.65	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.84	23.69	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.85	22.70	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.05	22.90	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.89	22.74	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.89	22.74	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.84	23.69	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.79	23.64	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.01	23.86	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.91	22.76	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.00	22.85	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.03	22.88	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.98	22.83	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.81	23.66	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.94	23.79	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.84	23.69	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.98	22.83	34.77	PASS

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Band12	3MHz	QPSK	23165	8RB#0	22.91	22.76	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.98	22.83	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.96	22.81	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.75	22.60	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.46	22.31	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.68	22.53	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.85	21.70	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.93	21.78	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.76	21.61	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.95	21.80	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.12	22.97	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.09	22.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.92	22.77	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.09	21.94	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.05	21.90	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.25	22.10	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.02	21.87	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.80	22.65	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.96	22.81	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.69	22.54	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.15	22.00	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.00	21.85	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.06	21.91	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.92	21.77	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.56	23.41	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.78	23.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.82	23.67	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.81	22.66	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.97	22.82	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.86	22.71	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.88	22.73	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.74	23.59	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.72	23.57	34.77	PASS

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Band12	5MHz	QPSK	23095	1RB#24	23.98	23.83	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.89	22.74	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.90	22.75	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.95	22.80	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.91	22.76	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.81	23.66	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.91	23.76	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.77	23.62	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.96	22.81	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.89	22.74	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.91	22.76	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.90	22.75	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.75	22.60	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.44	22.29	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.61	22.46	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.75	21.60	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.91	21.76	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.69	21.54	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.90	21.75	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.03	22.88	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.04	22.89	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.86	22.71	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.01	21.86	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.03	21.88	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.17	22.02	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.99	21.84	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.71	22.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.88	22.73	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.62	22.47	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.12	21.97	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.97	21.82	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.05	21.90	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.87	21.72	34.77	PASS

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Band12	10MHz	QPSK	23060	1RB#0	23.58	23.43	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.67	23.52	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.83	23.68	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.91	22.76	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.88	22.73	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.93	22.78	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.82	22.67	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.54	23.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.90	23.75	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.67	23.52	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.85	22.70	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.92	22.77	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.96	22.81	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.88	22.73	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.56	23.41	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.16	24.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.88	23.73	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.04	22.89	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.05	22.90	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.96	22.81	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.05	22.90	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.73	22.58	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.41	23.26	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.45	23.30	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.99	21.84	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.98	21.83	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.04	21.89	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.82	21.67	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.96	22.81	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.13	22.98	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.03	22.88	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.97	21.82	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.87	21.72	34.77	PASS

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Band12	10MHz	16QAM	23095	25RB#25	21.97	21.82	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.97	21.82	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.17	23.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.18	23.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.70	22.55	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.06	21.91	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.21	22.06	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.03	21.88	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.04	21.89	34.77	PASS

## Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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## 2. Field Strength of Spurious Radiation

### 2.1. Test Mode =LTE/TM1 10MHz

#### 2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.000000	-75.15	-13.00	62.15	Vertical
138.173333	-74.58	-13.00	61.58	Vertical
264.406667	-60.51	-13.00	47.51	Vertical
1399.000000	-54.50	-13.00	41.50	Vertical
2798.500000	-55.78	-13.00	42.78	Vertical
4197.300000	-61.70	-13.00	48.70	Vertical
62.386667	-74.96	-13.00	61.96	Horizontal
197.300000	-59.69	-13.00	46.69	Horizontal
345.980000	-64.60	-13.00	51.60	Horizontal
1399.000000	-54.65	-13.00	41.65	Horizontal
2798.500000	-55.95	-13.00	42.95	Horizontal
4197.787500	-65.05	-13.00	52.05	Horizontal

#### 2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
73.960000	-72.77	-13.00	59.77	Vertical
137.286667	-73.80	-13.00	60.80	Vertical
264.966667	-60.06	-13.00	47.06	Vertical
1406.000000	-54.99	-13.00	41.99	Vertical
2812.500000	-54.29	-13.00	41.29	Vertical
4218.262500	-61.58	-13.00	48.58	Vertical
62.340000	-75.18	-13.00	62.18	Horizontal
196.786667	-58.87	-13.00	45.87	Horizontal
347.753333	-64.32	-13.00	51.32	Horizontal
1406.000000	-54.99	-13.00	41.99	Horizontal
2812.500000	-54.78	-13.00	41.78	Horizontal
4218.262500	-63.86	-13.00	50.86	Horizontal

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### 2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
61.126667	-68.58	-13.00	55.58	Vertical
266.693333	-60.35	-13.00	47.35	Vertical
563.895833	-71.40	-13.00	58.40	Vertical
1413.000000	-53.34	-13.00	40.34	Vertical
2120.000000	-59.55	-13.00	46.55	Vertical
4239.225000	-62.91	-13.00	49.91	Vertical
62.760000	-75.15	-13.00	62.15	Horizontal
197.160000	-60.31	-13.00	47.31	Horizontal
354.660000	-64.86	-13.00	51.86	Horizontal
1413.000000	-54.18	-13.00	41.18	Horizontal
2120.000000	-59.58	-13.00	46.58	Horizontal
4239.225000	-64.50	-13.00	51.50	Horizontal

**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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The End

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