

RSS-102 Issue 5, Clause 2.5: Exemption Limits for Routine Evaluation

RF feature(Mode)	Frequency range (MHz)			Tune-up Max power(dBm)	ANT Gain (dBi)	Cable loss between transmitter and antenna(dB)	Duty Factor(dB)	Adjusted EIRP to tune-up Max(dBm)	Maximum EIRP (W)	Requirement (W)
GSM 850(1TX slot)	824.20	~	848.80	33.00	0.44	1.96	-9.03	22.45	0.175 8	1.288 5
GSM 850(4TX slot)	824.20	~	848.80	28.00	0.44	1.96	-3.01	23.47	0.222 4	1.288 5
GSM 1900(1TX slot)	1850.20	~	1909.80	31.00	1.51	2.96	-9.03	20.52	0.112 8	2.239 2
GSM 1900(4TX slot)	1850.20	~	1909.80	26.00	1.51	2.96	-3.01	21.54	0.142 6	2.239 2
WCDMA 850	826.40	~	846.60	24.00	0.44	1.96	N/A	22.48	0.177 1	1.290 9
WCDMA 1700	1 712.40	~	1 752.60	24.00	0.83	2.90	N/A	21.93	0.156 0	2.123 8
WCDMA 1900	1 852.40	~	1 907.60	24.00	1.51	2.96	N/A	22.55	0.179 9	2.241 0
LTE Band 2	1 850.00	~	1 910.00	23.00	1.51	2.96	N/A	21.55	0.142 9	2.239 0
LTE Band 4	1 710.00	~	1 755.00	23.00	0.83	2.90	N/A	20.93	0.123 9	2.121 8
LTE Band 5	824.00	~	849.00	23.00	0.44	1.96	N/A	21.48	0.140 7	1.288 3
LTE Band 12(17)	699.00	~	716.00	23.00	0.13	1.81	N/A	21.32	0.135 6	1.151 3
LTE Band 13	777.00	~	787.00	23.00	-0.36	1.91	N/A	20.73	0.118 4	1.237 6

Note1: Please refer to the tune-up procedure for the max target power.

Note2: EIRP(Adjusted EIRP to Tune- up Max) = Tune-up Max power(dBm) + Antenna gain(dBi) - Cable loss(dB) + Duty factor(dB)

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

Clause 2.5.2 Exemption Limits for Routine Evaluation – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- **at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;**
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

Conclusion : The exposure condition of this device is compliant with IC.