

FCC ID: 2A3V8SG2

447498 D01 General RF Exposure Guidance v06

47 CFR 1.1310(e)(1) Maximum Permissible Exposure (MPE) - Limits for General Population/Uncontrolled Exposure

	Frequency (f)	Power (P) dBm	Antenna Gain (G) dBi	Duty Cycle (DC) %	EIRP ¹ dBm	EIRP mW	R cm	Power Density ² (PD) mW/cm ²	Power Density Limit mW/cm ²	Exposure Ratio
BLE	2402	0.43	8.10	100	8.53	7.13	20	0.0014	1.00	0.00142
GSM 850	824	33.25	2.6	12.5	26.82	481	20	0.0956	0.55	0.174
GSM 1900	1850	30.25	4.4	12.5	25.62	365	20	0.073	1.00	0.073
LTE Band 2	1850	25	4.4	100	29.40	871	20	0.173	1.00	0.173
LTE Band 4	1710	25	4.4	100	29.40	871	20	0.173	1.00	0.173
LTE Band 5	824	25	2.6	100	27.60	575	20	0.114	0.55	0.208
LTE Band 12	699	25	2.6	100	27.60	575	20	0.114	0.47	0.246
LTE Band 13	777	25	2.6	100	27.60	575	20	0.114	0.52	0.221
Total Exposure Ratio =					0.00142	"+"	0.246	"="	0.247	<1

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Canada RSS-102 Issue 5 (4. Exposure Limits) Table 4: RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

	Frequency (f)	Power (P) dBm	Antenna Gain (G) dBi	Duty Cycle (DC) %	EIRP ¹ dBm	EIRP W	R m	Power Density ² (PD) W/m ²	Power Density Limit W/m ²	Exposure Ratio
BLE	2402	0.43	8.10	100	8.53	0.00713	0.2	0.014	5.35	0.00265
GSM 850	824	33.25	2.60	12.5	26.82	0.481	0.2	0.956	2.58	0.371
GSM 1900	1850	30.25	4.40	12.5	25.62	0.365	0.2	0.73	4.48	0.162
LTE Band 2	1850	25.00	4.40	100	29.40	0.871	0.2	1.73	4.48	0.387
LTE Band 4	1710	25.00	4.40	100	29.40	0.871	0.2	1.73	4.24	0.408
LTE Band 5	824	25.00	2.60	100	27.60	0.575	0.2	1.14	2.58	0.444
LTE Band 12	699	25.00	2.60	100	27.60	0.575	0.2	1.14	2.30	0.497
LTE Band 13	777	25.00	2.60	100	27.60	0.575	0.2	1.14	2.47	0.463
Total Exposure Ratio =					0.00265	"+"	0.497	"="	0.500	<1

¹EIRP_{dBm} = P + G + 10Log(D/100)

²PD = EIRP/(4πR²)