Product name: PLS62-W
Manufacturer: TRIMBLE EUROPE BV
FCC Id: **NZI-120271**

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2} \quad \text{(formula 1)} \qquad PG = \frac{(Ed)^2}{30} \quad \text{(formula 2)}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

PG = Effective Isotropic Radiated Power (EIRP)
E = Electric field measured at distance R distance
d = measurment distance

Transmitter n°1a (GSM: 850 MHz)

FCC ID: NZI-110610

Maximum peak output power at the antenna terminal:	25,97	(dBm)
Maximum peak output power at the antenna terminal:	395,3666201	(mW)
Antenna gain(typical):	5,15	(dBi)
Maximum antenna gain:	3,273406949	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	824	(MHz)
MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310):	0,549	(mW/cm^2)
Power density at prediction frequency:	0,257472	(mW/cm^2) (formula 1)

Transmitter n°1b (GSM: 1900 MHz)

FCC ID: NZI-110610

Maximum peak output power at the antenna terminal:	22,97	(dBm)
Maximum peak output power at the antenna terminal:	198,1527026	(mW)
Antenna gain(typical):	2,15	(dBi)
Maximum antenna gain:	1,640589773	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	1850	(MHz)
MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310):	1	(mW/cm^2)
Power density at prediction frequency:	0,064674	(mW/cm^2) (formula 1)

Transmitter n°2 (Bluetooth: 2402-2480 MHz)

FCC ID: Z64-WL18DBMOD

Maximum peak output power at the antenna terminal:	12,20	(dBm)
Maximum peak output power at the antenna terminal:	16,59586907	(mW)
Antenna gain(typical):	3,2	(dBi)
Maximum antenna gain:	2,089296131	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2402	(MHz)
MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310):	1	(mW/cm^2)
Power density at prediction frequency:	0,006898	(mW/cm^2) (formula 1)

Transmitter N°1a + Transmitter N°2 : [Pd(1a)/LPd(1a)] + [Pd(2b)/LPd(2b)] = 0,48   <1
Transmitter N°1b + Transmitter N°2 : [Pd(1b)/LPd(1b)] + [Pd(2b)/LPd(2b)] = 0,07   <1