

MPE CALCULATION

APPLICANT: META SYSTEM S.p.A.
Via Majakovskij 10/b/c/d/e - 42124 Reggio Emilia - Italy

EUT DESCRIPTION GSM-GPS CONTROL UNIT

EUT TRADEMARK META SYSTEM S.p.A.

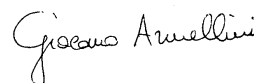
EUT MODEL TPA Gen2

REFERENCE STANDARDS : FCC RULES PART 22 and 24

DATE OF ISSUE 30/03/2010

LABORATORY Prima Ricerca & Sviluppo S.r.l.
Via Campagna, 92 -22020 Faloppio (Co) –Italy

ISSUED BY Giacomo Armellini



|| The calculation results reported in this document shall refer only to Test Report above indicated and relevant tested sample



PRIMA

RICERCA & SVILUPPO

Test Report reference

- ▶ FCCTR_090921-5 issued 30/03/2010 by Prima Ricerca & Sviluppo
- ▶ 22345 RET Issued 29/11/2005 by CETECOM

GSM 850 Internal Antenna

Not applicable: the frequency range of the Internal Antenna is 880-960 MHz (declared by the manufacturer)

GSM 850: Channel 128 External Antenna (Worst Case)

Calculation Results

	Conducted Antenna Connector	Radiated
Power at the Antenna	2.06 W	1,552 W
Antenna Gain in dB	-2,1 dBi	n.a.
Distance to the Area of Interest	0.656 feet 0.1999 metres	0.656 feet 0.1999 metres
Frequency of Operation	824,12 MHz	824,12 MHz
Are Ground reflections Calculated	Yes	n.a.
Estimated RF Power Density	0.252 mW/cm ²	0.309 mW/cm ²

	Controlled Environment	Uncontrolled Environment	Controlled Environment	Uncontrolled Environment
Maximum Permissible Exposure (MPE)	2.7521 mW/cm ²	0.5544 mW/cm ²	2.7521 mW/cm ²	0.5544 mW/cm ²
Distance to Compliance From Centre of Antenna	0.2487 feet 0.0758 metres	0.4943 feet 0.1507 metres	0.27 feet 0.0823 metres	0.5419 feet 0.1652 metres
Does the Area of Interest Appear to be in Compliance	yes	yes	yes	yes

PCS 1900: Channel 512 Internal Antenna (worst case)

	Conducted Antenna Connector	Radiated
Power at the Antenna	0.9 W	0.579 W
Antenna Gain in dB	1 dBi	n.a.
Distance to the Area of Interest	0.656 feet 0.1999 metres	0.656 feet 0.1999 metres
Frequency of Operation	1850.335MHz	1850.335MHz
Are Ground reflections Calculated	Yes	n.a.
Estimated RF Power Density	0.2256 mW/cm ²	0.1153 mW/cm ²

	Controlled Environment	Uncontrolled Environment	Controlled Environment	Uncontrolled Environment
Maximum Permissible Exposure (MPE)	5.005 mW/cm ²	1.005 mW/cm ²	5.005 mW/cm ²	1.005 mW/cm ²
Distance to Compliance From Centre of Antenna	0.1893 feet 0.0577 metres	0.3615 feet 0.1102 metres	0.1496 feet 0.0456 metres	0.2727 feet 0.0831 metres
Does the Area of Interest Appear to be in Compliance	yes	yes	yes	yes