

14 Maximum Permissible Exposure (MPE)

14.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with § 2.1091 radiofrequency radiation exposure evaluation: mobile devices of the FCC CFR 47 Rules. And RSS-102 issue 4 For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

14.2 Special Accessories

Not available for this EUT intended for grant.

14.3 Equipment Modifications

Not available for this EUT intended for grant.

14.4 Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Averaging Time (minutes)
0.003-1	280	2.19	-	6
1-10	280/f	2.19/f	-	6
10-30	28	2.19/f	-	6
30-300	28	0.073	2*	6
300-1500	1.585 f ^{0.5}	0.0042 f ^{0.5}	f/150	6
1500-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/f ^{1.2}
150000-300000	0.158 f ^{0.5}	4.21 x 10 ⁻⁴ f ^{0.5}	6.67 x 10 ⁻³ f	616000/f ^{1.2}

Note: f is frequency in MHz.

* Power density limit is applicable at frequencies greater than 100 MHz.

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14.5 Maximum Permissible Exposure (MPE) Evaluation

The evaluation and calculation as deduces below presents only worst-case that produces highest value of the result:

Operation Configuration of the Worst-Case picked up to evaluate:
GSM/GPRS 850 / 1900

Operation in GSM850 band (824.2 – 848.8 MHz) (FCC)

The ERP of GSM0508-40 in GSM850 band is 23.84dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM850	E2	824.2	128	V	22.96	3.91	-3.03	23.84	38.45
				H	21.11	3.91	-3.03	21.99	38.45
		836.6	190	V	22.57	3.89	-3.07	23.40	38.45
				H	21.56	3.89	-3.07	22.38	38.45
		848.8	251	V	20.56	3.87	-3.11	21.32	38.45
				H	19.91	3.87	-3.11	20.68	38.45

$$\text{ERP} = 23.84\text{dBm} = 242.103\text{mW}$$

$$\text{Power Density} = \text{EIRP} * \text{Duty Cycle} / (4 \pi R^2)$$

$$= 242.103 * 0.125 / (4 * \pi * 20^2) = 0.00602\text{mW/cm}^2$$

where Duty Cycle is 0.125 for GSM850 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 0.5773\text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GSM850 band is compliant with the FCC rules on RF exposure.

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Operation in GSM1900 band (1850.2 – 1909.8 MHz)

The EIRP of GSM0508-40 in GSM1900 band is 25.94dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	E2	1850.2	512	V	25.53	5.08	-4.67	25.94	33.01
				H	23.09	5.08	-4.67	23.50	33.01
		1880.0	661	V	25.52	5.00	-4.70	25.81	33.01
				H	22.84	5.00	-4.70	23.13	33.01
		1909.8	810	V	25.46	4.92	-4.74	25.64	33.01
				H	21.80	4.92	-4.74	21.98	33.01

$$EIRP = 25.94dBm = 392.645mW$$

$$\begin{aligned} \text{Power Density} &= EIRP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 392.645 * 0.125 / (4 * \pi * 20^2) = 0.00944mW/cm^2 \end{aligned}$$

where Duty Cycle is 0.125 for GSM1900 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$MPE \text{ limit} = 1.0mW/cm^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GSM1900 band is compliant with the FCC rules on RF exposure.

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Operation in GPRS850 band (824.2 – 848.8 MHz)

The ERP of GSM0508-40 in GPRS850 band is 23.00dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	E2	824.20	128	V	22.12	3.91	-3.03	23.00	38.45
				H	19.58	3.91	-3.03	20.46	38.45
		836.60	190	V	21.89	3.89	-3.07	22.71	38.45
				H	20.90	3.89	-3.07	21.72	38.45
		848.80	251	V	19.52	3.87	-3.11	20.28	38.45
				H	19.50	3.87	-3.11	20.27	38.45

$$ERP = 23.00dBm = 199.53mW$$

$$\begin{aligned} \text{Power Density} &= EIRP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 199.53 * 0.125 / (4 * \pi * 20^2) = 0.0050mW/cm^2 \end{aligned}$$

where Duty Cycle is 0.125 for GSM850 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$MPE \text{ limit} = 0.5773mW/cm^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GPRS850 band is compliant with the FCC rules on RF exposure.

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Operation in GPRS1900 band (1850.2 – 1909.8 MHz)

The EIRP of GSM0508-40 in GPRS1900 band is 25.92dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	E2	1850.20	512	V	25.51	5.08	-4.67	25.92	33.01
				H	22.25	5.08	-4.67	22.66	33.01
		1880.00	661	V	25.35	5.00	-4.70	25.65	33.01
				H	22.18	5.00	-4.70	22.48	33.01
		1909.80	810	V	23.13	4.92	-4.74	23.32	33.01
				H	21.33	4.92	-4.74	21.51	33.01

$$EIRP = 25.92\text{dBm} = 390.841\text{mW}$$

$$\begin{aligned} \text{Power Density} &= EIRP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 390.841 * 0.125 / (4 * \pi * 20^2) = 0.00972\text{mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.125 for GSM1900 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$MPE \text{ limit} = 1.0\text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GPRS1900 band is compliant with the FCC rules on RF exposure.

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Operation in GSM850 band (824.2 – 848.8 MHz) (IC)

The ERP of GSM0508-40 in GSM850 band is 18.5 dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM850	E2	824.2	128	V	17.62	3.91	-3.03	18.5	40.60
				H	15.13	3.91	-3.03	16.01	40.60
		836.6	190	V	16.65	3.89	-3.07	17.47	40.60
				H	15.85	3.89	-3.07	16.67	40.60
		848.8	251	V	14.83	3.87	-3.11	15.59	40.60
				H	14.16	3.87	-3.11	14.92	40.60

$$\text{ERP} = 18.5\text{dBm} = 0.071\text{W}$$

$$\begin{aligned} \text{Power Density} &= \text{EIRP} \cdot \text{Duty Cycle} / (4\pi R^2) \\ &= 0.071 \cdot 0.125 / (4 \cdot \pi \cdot 20^2) = 1.76140\text{W/m}^2 \end{aligned}$$

where Duty Cycle is 0.125 for GSM850 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the RSS-102 issue 4.4.2 and can be calculated as follows:

$$\text{MPE limit} = 5.494\text{W/m}^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GSM850 band is compliant with the IC rules on RF exposure.

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Operation in GSM1900 band (1850.2 – 1909.8 MHz)

The EIRP of GSM0508-40 in GSM1900 band is 20.68dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	E2	1850.2	512	V	19.94	5.08	-4.67	20.35	33.01
				H	17.77	5.08	-4.67	18.18	33.01
		1880.0	661	V	20.38	5.00	-4.70	20.68	33.01
				H	17.66	5.00	-4.70	17.96	33.01
		1909.8	810	V	20.30	4.92	-4.74	20.48	33.01
				H	16.60	4.92	-4.74	16.78	33.01

$$EIRP = 20.68dBm = 0.12W$$

$$\begin{aligned} \text{Power Density} &= EIRP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 0.12 * 0.125 / (4 * \pi * 20^2) = 2.9098W/m^2 \end{aligned}$$

where Duty Cycle is 0.125 for GSM1900 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the RSS-102 issue 4.4.2 and can be calculated as follows:

$$MPE \text{ limit} = 10W/m^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GSM1900 band is compliant with the IC rules on RF exposure.

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Operation in GPRS850 band (824.2 – 848.8 MHz)

The ERP of GSM0508-40 in GPRS850 band is 17.78dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	E2	824.20	128	V	16.90	3.91	-3.03	17.78	40.60
				H	13.71	3.91	-3.03	14.59	40.60
		836.60	190	V	16.70	3.89	-3.07	17.52	40.60
				H	15.38	3.89	-3.07	16.20	40.60
		848.80	251	V	13.84	3.87	-3.11	14.60	40.60
				H	14.12	3.87	-3.11	14.88	40.60

$$ERP = 17.78\text{dBm} = 0.06\text{W}$$

$$\begin{aligned} \text{Power Density} &= EIRP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 0.06 * 0.125 / (4 * \pi * 20^2) = 1.4923\text{W/m}^2 \end{aligned}$$

where Duty Cycle is 0.125 for GSM850 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the RSS-102 issue 4.4.2 and can be calculated as follows:

$$\text{MPE limit} = 5.494\text{W/m}^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GPRS850 band is compliant with the IC rules on RF exposure.

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Operation in GPRS1900 band (1850.2 – 1909.8 MHz)

The EIRP of GSM0508-40 in GPRS1900 band is 20.24dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	E2	1850.20	512	V	19.83	5.08	-4.67	20.24	33.01
				H	16.94	5.08	-4.67	17.35	33.01
		1880.00	661	V	19.66	5.00	-4.70	19.96	33.01
				H	17.17	5.00	-4.70	17.47	33.01
		1909.80	810	V	18.11	4.92	-4.74	18.29	33.01
				H	15.50	4.92	-4.74	15.68	33.01

$$EIRP = 20.24dBm = 0.11W$$

$$\begin{aligned} \text{Power Density} &= EIRP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 0.11 * 0.125 / (4 * \pi * 20^2) = 2.6294W/m^2 \end{aligned}$$

where Duty Cycle is 0.125 for GSM1900 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the RSS-102 issue 4.4.2 and can be calculated as follows:

$$MPE \text{ limit} = 10W/m^2$$

The resulted power density is below the limit of MPE, and therefore GSM0508-40 in GPRS1900 band is compliant with the IC rules on RF exposure.

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