ICNIRP Measurement Report

This report presents the results of measurements of electromagnetic field emission levels in the vicinity of mobile base stations. Results are presented as percentages of the power density reference levels for general public exposure in the 1998 edition of the Guidelines published by the International Commission on Non-Ionizing Radiation Protection (ICNIRP)[1], with figures provided for individual frequency bands used for base station (downlink) transmissions as well as an overall figure for all other frequency bands between 30 MHz to 6 GHz. The total percentage equals the sum of all individual percentages.

The power density reference levels in the ICNIRP Guidelines are the root mean square (rms) values averaged over six minutes. In this report, we have measured the average E-field strength over a six-minute period in each measurement location.

We have applied a measurement threshold of 3dB above the system noise floor[2] of the measurement equipment, below which any E-field strength levels measured are deemed not sufficiently above the system noise floor to be valid. In the results tables below, measurement results are shown to a precision of four decimal places. Results which are not sufficiently above the system noise floor to record as a valid measurement are shown as a dash (-). Results which are too small to register to four decimal places are shown as 0.0000%.

Date of Survey:	30/09/2026	**Time Survey completed:**	13:25
Survey address:	Bognor Regis PO22		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	MY56072613	17/07/2026
Probe	Agos Aria-6000 Antenna	1111	08/07/2025
Cabling	1.7m cable	1409	08/07/2025

[1] https://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf

[2] The noise floor of the measurement equipment is the level of background noise that is present before detecting any external signals. In other words, it indicates the absolute minimum level of detectable signals.

Broadcast bands covered by this report

Frequency Band	Frequency Range	Technology*
	87.5-108 MHz	FM Radio
	174-230 MHz	DAB
	470-694 MHz	Digital TV

Mobile bands covered by this report

Frequency Band	Frequency Range	Technology*
700 MHz	738-788 MHz	4G, 5G
800 MHz	791-821 MHz	4G
900 MHz	925-960 MHz	2G, 3G, 4G
1400 MHz	1452-1492 MHz	4G (Supplementary downlink)
1800 MHz	1805-1880 MHz	2G, 4G
1900 MHz	1900-1920 MHz	4G
2100 MHz	2110-2170 MHz	3G, 4G
2300 MHz	2350-2390 MHz	4G
2600 MHz TDD	2570-2620 MHz	4G
2600 MHz FDD	2620-2690 MHz	4G
3.4 GHz	3410-3680 MHz	5G, 4G
3.8 GHz	3680-4200 MHz	Various
Others**		

** This is an indication of the type of technologies typically deployed in these bands; not all frequency bands and technologies may be in use at all locations. ** All other frequencies between 30 MHz and 6 GHz.*

Survey locations

The survey was conducted within the area shown in the map below. Measurements were taken at five locations and are presented in the following pages of this report.



Location 1

Measurement time:	12:43
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.00664
174-230 MHz	0.00781
470-694 MHz	0.00591
700 MHz	0.04246
800 MHz	0.05764
900 MHz	0.04391
1400 MHz	0.03794
1800 MHz	0.04738
1900 MHz	0.00012
2100 MHz	0.05648
2300 MHz	0.01238
2600 MHz TDD	0.00283
2600 MHz FDD	0.00622
3.4 GHz	0.00173
3.8 GHz	0.00277
Others	0.09222
Total	**0.42444**

Location 2

Measurement time:	12:51
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.00716
174-230 MHz	0.00832
470-694 MHz	0.00624
700 MHz	0.03202
800 MHz	0.09332
900 MHz	0.04156
1400 MHz	0.04340
1800 MHz	0.12971
1900 MHz	0.00013
2100 MHz	0.10211
2300 MHz	0.00697
2600 MHz TDD	0.00828
2600 MHz FDD	0.02005
3.4 GHz	0.00201
3.8 GHz	0.00296
Others	0.09773
Total	**0.60193**

Location 3

Measurement time:	13:00
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.00736
174-230 MHz	0.00881
470-694 MHz	0.00651
700 MHz	0.00746
800 MHz	0.04642
900 MHz	0.03197
1400 MHz	0.02803
1800 MHz	0.06948
1900 MHz	0.00013
2100 MHz	0.02650
2300 MHz	0.00312
2600 MHz TDD	0.00111
2600 MHz FDD	0.00151
3.4 GHz	0.00179
3.8 GHz	0.00311
Others	0.10288
Total	**0.34618**

Location 4

Measurement time:	13:10
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.00780
174-230 MHz	0.00901
470-694 MHz	0.00666
700 MHz	0.00241
800 MHz	0.00602
900 MHz	0.01068
1400 MHz	0.00643
1800 MHz	0.05475
1900 MHz	0.00014
2100 MHz	0.01596
2300 MHz	0.00139
2600 MHz TDD	0.00069
2600 MHz FDD	0.00141
3.4 GHz	0.00194
3.8 GHz	0.00322
Others	0.10542
Total	**0.23391**

Location 5

Measurement time:	13:19
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.00790
174-230 MHz	0.00929
470-694 MHz	0.00681
700 MHz	0.01640
800 MHz	0.04096
900 MHz	0.05538
1400 MHz	0.02723
1800 MHz	0.03362
1900 MHz	0.00014
2100 MHz	0.09647
2300 MHz	0.01131
2600 MHz TDD	0.00510
2600 MHz FDD	0.00502
3.4 GHz	0.00223
3.8 GHz	0.00337
Others	0.10891
Total	**0.43015**

Disclaimer: The results detailed in this report apply only to the tests made at the reported time, using the test equipment detailed. They do not indicate that on another date an identical set of results would be achieved, due to changes in local environmental conditions or other factors which may or may not have an effect on the measurement results obtained at that future time.