

# 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)<sup>1</sup>, 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<sup>2</sup> 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%.

<b>Date of Survey:</b>	03/03/2026	<b>Time Survey completed:</b>	14:20
<b>Survey address:</b>	Skegness PE25		

Measurement equipment		Serial number	Calibration Date
<b>Meter</b>	Keysight Fieldfox N9915A Spectrum Analyser	MY56072591	11/12/2025
<b>Probe</b>	Agos Aria-6000 Antenna	AGOS-6000-1023	08/07/2025
<b>Cabling</b>	1.7m cable	1177	08/07/2025

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<sup>1</sup> <https://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf>

<sup>2</sup> 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

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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**

<b>Measurement time:</b>	<b>12:56</b>
<b>Frequency band</b>	<b>Percentage of the ICNIRP reference levels for general public exposure</b>
87.5-108 MHz	0.01351
174-230 MHz	0.01506
470-694 MHz	0.01201
700 MHz	0.01197
800 MHz	0.00979
900 MHz	0.00381
1400 MHz	0.01275
1800 MHz	0.00397
1900 MHz	0.00030
2100 MHz	0.00387
2300 MHz	0.00115
2600 MHz TDD	0.00052
2600 MHz FDD	0.00022
3.4 GHz	0.00294
3.8 GHz	0.00642
Others	0.19100
<b>Total</b>	<b>0.28929</b>

## Location 2

Measurement time:	13:15
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01456
174-230 MHz	0.01648
470-694 MHz	0.01300
700 MHz	0.01298
800 MHz	0.03123
900 MHz	0.02210
1400 MHz	0.00368
1800 MHz	0.01129
1900 MHz	0.00033
2100 MHz	0.01283
2300 MHz	0.00084
2600 MHz TDD	0.00057
2600 MHz FDD	0.00024
3.4 GHz	0.00304
3.8 GHz	0.00705
Others	0.21049
<b>Total</b>	<b>0.36070</b>

### Location 3

Measurement time:	13:29
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01492
174-230 MHz	0.01672
470-694 MHz	0.01323
700 MHz	0.02232
800 MHz	0.01502
900 MHz	0.01103
1400 MHz	0.02005
1800 MHz	0.00651
1900 MHz	0.00033
2100 MHz	0.00362
2300 MHz	0.00106
2600 MHz TDD	0.00058
2600 MHz FDD	0.00025
3.4 GHz	0.00316
3.8 GHz	0.00713
Others	0.21421
<b>Total</b>	<b>0.35016</b>

#### Location 4

Measurement time:	14:01
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01602
174-230 MHz	0.01817
470-694 MHz	0.01404
700 MHz	0.00598
800 MHz	0.01583
900 MHz	0.01904
1400 MHz	0.00135
1800 MHz	0.00267
1900 MHz	0.00036
2100 MHz	0.00168
2300 MHz	0.00101
2600 MHz TDD	0.00063
2600 MHz FDD	0.00027
3.4 GHz	0.00304
3.8 GHz	0.00793
Others	0.23110
<b>Total</b>	<b>0.33912</b>

## Location 5

Measurement time:	14:14
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01601
174-230 MHz	0.01803
470-694 MHz	0.01405
700 MHz	0.00380
800 MHz	0.00361
900 MHz	0.00544
1400 MHz	0.00891
1800 MHz	0.00294
1900 MHz	0.00036
2100 MHz	0.00589
2300 MHz	0.00120
2600 MHz TDD	0.00063
2600 MHz FDD	0.00027
3.4 GHz	0.00341
3.8 GHz	0.00750
Others	0.23028
<b>Total</b>	<b>0.32233</b>

*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.*