

# 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>	19/03/2025	<b>Time Survey completed:</b>	09:41
<b>Survey address:</b>	Corbiere JE3		

Measurement equipment		Serial number	Calibration Date
<b>Meter</b>	Keysight Fieldfox N9915A Spectrum Analyser	MY56072611	12/02/2025
<b>Probe</b>	Agos Aria-6000 Antenna	1117	28/11/2022
<b>Cabling</b>	1.7m cable	1319	28/11/2022

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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

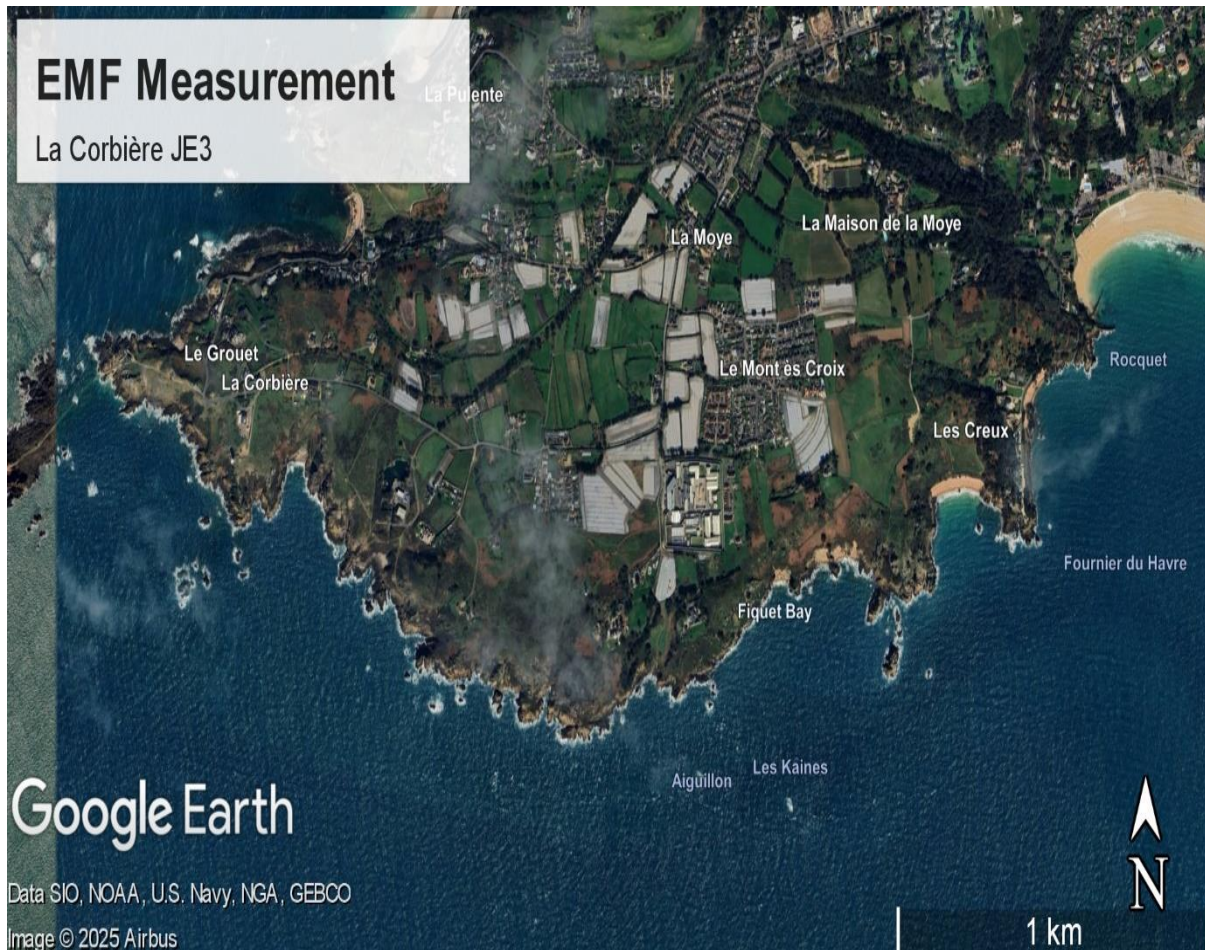
Frequency Band	Frequency Range	Technology*
700 MHz	738-788 MHz	4G, 5G
800 MHz	791-821 MHz	4G
900 MHz	925-960 MHz	2G, 3G, 4G
1400 MHz	1452-1492 MHz	4G (Supplementary downlink)
1800 MHz	1805-1880 MHz	2G, 4G
1900 MHz	1900-1920 MHz	4G
2100 MHz	2110-2170 MHz	3G, 4G
2300 MHz	2350-2390 MHz	4G
2600 MHz TDD	2570-2620 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>	09:05
<b>Frequency band</b>	<b>Percentage of the ICNIRP reference levels for general public exposure</b>
87.5-108 MHz	0.01153
174-230 MHz	0.01288
470-694 MHz	0.00980
700 MHz	0.00250
800 MHz	0.01707
900 MHz	0.19099
1400 MHz	0.00046
1800 MHz	0.00905
1900 MHz	0.00023
2100 MHz	0.00639
2300 MHz	0.00045
2600 MHz TDD	0.00039
2600 MHz FDD	0.00017
3.4 GHz	0.00190
3.8 GHz	0.00428
Others	0.16248
<b>Total</b>	<b>0.43057</b>

## Location 2

<b>Measurement time:</b>	<b>09:13</b>
<b>Frequency band</b>	<b>Percentage of the ICNIRP reference levels for general public exposure</b>
87.5-108 MHz	0.01205
174-230 MHz	0.01339
470-694 MHz	0.01013
700 MHz	0.01001
800 MHz	0.04117
900 MHz	0.09786
1400 MHz	0.00047
1800 MHz	0.00300
1900 MHz	0.00024
2100 MHz	0.00353
2300 MHz	0.00047
2600 MHz TDD	0.00040
2600 MHz FDD	0.00018
3.4 GHz	0.00198
3.8 GHz	0.00448
Others	0.16574
<b>Total</b>	<b>0.36512</b>

### Location 3

<b>Measurement time:</b>	<b>09:20</b>
<b>Frequency band</b>	<b>Percentage of the ICNIRP reference levels for general public exposure</b>
87.5-108 MHz	0.01214
174-230 MHz	0.01348
470-694 MHz	0.01040
700 MHz	0.00293
800 MHz	0.00923
900 MHz	0.03637
1400 MHz	0.00049
1800 MHz	0.00597
1900 MHz	0.00024
2100 MHz	0.00535
2300 MHz	0.00048
2600 MHz TDD	0.00041
2600 MHz FDD	0.00019
3.4 GHz	0.00205
3.8 GHz	0.00460
Others	0.16519
<b>Total</b>	<b>0.26952</b>

#### Location 4

<b>Measurement time:</b>	<b>09:27</b>
<b>Frequency band</b>	<b>Percentage of the ICNIRP reference levels for general public exposure</b>
87.5-108 MHz	0.01238
174-230 MHz	0.01385
470-694 MHz	0.01057
700 MHz	0.00512
800 MHz	0.01847
900 MHz	0.03143
1400 MHz	0.00050
1800 MHz	0.00117
1900 MHz	0.00025
2100 MHz	0.00110
2300 MHz	0.00049
2600 MHz TDD	0.00043
2600 MHz FDD	0.00019
3.4 GHz	0.00211
3.8 GHz	0.00477
Others	0.17091
<b>Total</b>	<b>0.27374</b>

## Location 5

<b>Measurement time:</b>	<b>09:35</b>
<b>Frequency band</b>	<b>Percentage of the ICNIRP reference levels for general public exposure</b>
87.5-108 MHz	0.01274
174-230 MHz	0.01426
470-694 MHz	0.01066
700 MHz	0.00372
800 MHz	0.01610
900 MHz	0.12161
1400 MHz	0.00051
1800 MHz	0.00291
1900 MHz	0.00025
2100 MHz	0.00679
2300 MHz	0.00050
2600 MHz TDD	0.00043
2600 MHz FDD	0.00020
3.4 GHz	0.00216
3.8 GHz	0.00489
Others	0.17934
<b>Total</b>	<b>0.37704</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.*