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:	19/06/2026	**Time Survey completed:**	12:40
Survey address:	Farcet PE7		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	MY56072591	11/12/2025
Probe	Agos Aria-6000 Antenna	ARIA-6000-1023	08/07/2025
Cabling	1.7m cable	1188	02/02/2026

[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:	11:42
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.02275
174-230 MHz	0.01743
470-694 MHz	0.01366
700 MHz	0.00226
800 MHz	0.00255
900 MHz	0.00098
1400 MHz	0.00071
1800 MHz	0.01755
1900 MHz	0.00034
2100 MHz	0.00100
2300 MHz	0.00070
2600 MHz TDD	0.00059
2600 MHz FDD	0.00102
3.4 GHz	0.00287
3.8 GHz	0.00657
Others	0.22133
Total	**0.31233**

Location 2

Measurement time:	12:00
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.02226
174-230 MHz	0.02021
470-694 MHz	0.01553
700 MHz	0.01551
800 MHz	0.06602
900 MHz	0.00112
1400 MHz	0.00082
1800 MHz	0.07528
1900 MHz	0.00039
2100 MHz	0.00130
2300 MHz	0.00081
2600 MHz TDD	0.00069
2600 MHz FDD	0.00449
3.4 GHz	0.00344
3.8 GHz	0.00783
Others	0.25674
Total	**0.49245**

Location 3

Measurement time:	12:11
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01895
174-230 MHz	0.02113
470-694 MHz	0.01620
700 MHz	0.00454
800 MHz	0.00941
900 MHz	0.00150
1400 MHz	0.00086
1800 MHz	0.00443
1900 MHz	0.00042
2100 MHz	0.00139
2300 MHz	0.00085
2600 MHz TDD	0.00072
2600 MHz FDD	0.00118
3.4 GHz	0.00367
3.8 GHz	0.00831
Others	0.27183
Total	**0.36540**

Location 4

Measurement time:	12:24
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01968
174-230 MHz	0.02180
470-694 MHz	0.01680
700 MHz	0.00568
800 MHz	0.01884
900 MHz	0.00122
1400 MHz	0.00089
1800 MHz	0.00549
1900 MHz	0.00043
2100 MHz	0.00153
2300 MHz	0.00088
2600 MHz TDD	0.00076
2600 MHz FDD	0.00063
3.4 GHz	0.00383
3.8 GHz	0.00876
Others	0.28172
Total	**0.38895**

Location 5

Measurement time:	12:34
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.02440
174-230 MHz	0.02221
470-694 MHz	0.01698
700 MHz	0.00312
800 MHz	0.00414
900 MHz	0.00121
1400 MHz	0.00090
1800 MHz	0.02428
1900 MHz	0.00043
2100 MHz	0.00126
2300 MHz	0.00089
2600 MHz TDD	0.00076
2600 MHz FDD	0.00158
3.4 GHz	0.00387
3.8 GHz	0.00883
Others	0.28593
Total	**0.40079**

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.