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:	16/07/2026	**Time Survey completed:**	14:38
Survey address:	London HA2		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	MY56072597	15/08/2025
Probe	Agos Aria-6000 Antenna	ARIA-6000-1157	08/07/2025
Cabling	1.7m cable	2068	15/11/2024

[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 four locations and are presented in the following pages of this report.



Location 1

Measurement time:	14:06
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01392
174-230 MHz	0.01586
470-694 MHz	0.01187
700 MHz	0.00168
800 MHz	0.11051
900 MHz	0.04763
1400 MHz	0.02105
1800 MHz	0.00095
1900 MHz	0.00030
2100 MHz	0.00799
2300 MHz	0.00068
2600 MHz TDD	0.00058
2600 MHz FDD	0.00189
3.4 GHz	0.01153
3.8 GHz	0.00681
Others	0.20971
Total	**0.46296**

Location 2

Measurement time:	14:14
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01390
174-230 MHz	0.01598
470-694 MHz	0.01197
700 MHz	0.00236
800 MHz	0.02131
900 MHz	0.03387
1400 MHz	0.00286
1800 MHz	0.00154
1900 MHz	0.00031
2100 MHz	0.00439
2300 MHz	0.00081
2600 MHz TDD	0.00085
2600 MHz FDD	0.01214
3.4 GHz	0.00517
3.8 GHz	0.00704
Others	0.21244
Total	**0.34696**

Location 3

Measurement time:	14:22
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01412
174-230 MHz	0.01611
470-694 MHz	0.01197
700 MHz	0.00198
800 MHz	0.01008
900 MHz	0.01404
1400 MHz	0.00162
1800 MHz	0.00100
1900 MHz	0.00031
2100 MHz	0.00362
2300 MHz	0.00069
2600 MHz TDD	0.00060
2600 MHz FDD	0.00116
3.4 GHz	0.00534
3.8 GHz	0.00699
Others	0.21333
Total	**0.30294**

Location 4

Measurement time:	14:32
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01399
174-230 MHz	0.01608
470-694 MHz	0.01203
700 MHz	0.00170
800 MHz	0.05096
900 MHz	0.07073
1400 MHz	0.02049
1800 MHz	0.00095
1900 MHz	0.00031
2100 MHz	0.00287
2300 MHz	0.00067
2600 MHz TDD	0.00059
2600 MHz FDD	0.00186
3.4 GHz	0.01005
3.8 GHz	0.00695
Others	0.21351
Total	**0.42373**

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.