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:	19/08/2026	**Time Survey completed:**	13:56
Survey address:	Cow Roast HP23		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	MY56072607	27/10/2025
Probe	Agos Aria-6000 Antenna	ARIA_6000_1111	28/11/2024
Cabling	1.7m cable	1313	28/11/2024

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



Location 1

Measurement time:	12:50
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01140
174-230 MHz	0.01075
470-694 MHz	0.01178
700 MHz	0.00371
800 MHz	0.00396
900 MHz	0.02381
1400 MHz	0.00206
1800 MHz	0.00108
1900 MHz	0.00029
2100 MHz	0.00132
2300 MHz	0.00053
2600 MHz TDD	0.00051
2600 MHz FDD	0.00023
3.4 GHz	0.00245
3.8 GHz	0.00597
Others	0.22934
Total	**0.30920**

Location 2

Measurement time:	13:00
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01179
174-230 MHz	0.01121
470-694 MHz	0.01213
700 MHz	0.00587
800 MHz	0.00833
900 MHz	0.00671
1400 MHz	0.00252
1800 MHz	0.00167
1900 MHz	0.00030
2100 MHz	0.00381
2300 MHz	0.00055
2600 MHz TDD	0.00053
2600 MHz FDD	0.00024
3.4 GHz	0.00258
3.8 GHz	0.00624
Others	0.23867
Total	**0.31316**

Location 3

Measurement time:	13:26
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01203
174-230 MHz	0.01128
470-694 MHz	0.01229
700 MHz	0.00267
800 MHz	0.00788
900 MHz	0.01229
1400 MHz	0.00209
1800 MHz	0.00149
1900 MHz	0.00030
2100 MHz	0.00156
2300 MHz	0.00056
2600 MHz TDD	0.00054
2600 MHz FDD	0.00025
3.4 GHz	0.00263
3.8 GHz	0.00640
Others	0.24293
Total	**0.31719**

Location 4

Measurement time:	13:40
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01236
174-230 MHz	0.01161
470-694 MHz	0.01254
700 MHz	0.00714
800 MHz	0.01664
900 MHz	0.01078
1400 MHz	0.00144
1800 MHz	0.00209
1900 MHz	0.00030
2100 MHz	0.00147
2300 MHz	0.00057
2600 MHz TDD	0.00055
2600 MHz FDD	0.00026
3.4 GHz	0.00271
3.8 GHz	0.00657
Others	0.24829
Total	**0.33533**

Location 5

Measurement time:	13:50
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01231
174-230 MHz	0.01158
470-694 MHz	0.01258
700 MHz	0.00265
800 MHz	0.00221
900 MHz	0.02072
1400 MHz	0.00155
1800 MHz	0.00129
1900 MHz	0.00031
2100 MHz	0.00151
2300 MHz	0.00057
2600 MHz TDD	0.00055
2600 MHz FDD	0.00025
3.4 GHz	0.00270
3.8 GHz	0.00657
Others	0.24886
Total	**0.32621**

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.