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:	20/08/2026	**Time Survey completed:**	16:21
Survey address:	California NR 29		

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:	15:35
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01899
174-230 MHz	0.02130
470-694 MHz	0.01633
700 MHz	0.00541
800 MHz	0.00810
900 MHz	0.00120
1400 MHz	0.05168
1800 MHz	0.02900
1900 MHz	0.00042
2100 MHz	0.01243
2300 MHz	0.00086
2600 MHz TDD	0.00073
2600 MHz FDD	0.00032
3.4 GHz	0.01656
3.8 GHz	0.00844
Others	0.27194
Total	**0.46370**

Location 2

Measurement time:	15:44
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01809
174-230 MHz	0.02027
470-694 MHz	0.01566
700 MHz	0.00343
800 MHz	0.00430
900 MHz	0.00111
1400 MHz	0.02133
1800 MHz	0.00919
1900 MHz	0.00040
2100 MHz	0.00277
2300 MHz	0.00081
2600 MHz TDD	0.00070
2600 MHz FDD	0.00030
3.4 GHz	0.00734
3.8 GHz	0.00789
Others	0.25804
Total	**0.37164**

Location 3

Measurement time:	15:53
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01775
174-230 MHz	0.02003
470-694 MHz	0.01543
700 MHz	0.00261
800 MHz	0.00226
900 MHz	0.00110
1400 MHz	0.01429
1800 MHz	0.04252
1900 MHz	0.00039
2100 MHz	0.00783
2300 MHz	0.00080
2600 MHz TDD	0.00069
2600 MHz FDD	0.00029
3.4 GHz	0.01186
3.8 GHz	0.00776
Others	0.25446
Total	**0.40006**

Location 4

Measurement time:	16:04
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01743
174-230 MHz	0.01954
470-694 MHz	0.01514
700 MHz	0.00276
800 MHz	0.00242
900 MHz	0.00108
1400 MHz	0.00535
1800 MHz	0.02934
1900 MHz	0.00039
2100 MHz	0.00362
2300 MHz	0.00078
2600 MHz TDD	0.00068
2600 MHz FDD	0.00029
3.4 GHz	0.00381
3.8 GHz	0.00758
Others	0.25023
Total	**0.36044**

Location 5

Measurement time:	16:15
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01721
174-230 MHz	0.01941
470-694 MHz	0.01487
700 MHz	0.01006
800 MHz	0.02036
900 MHz	0.00110
1400 MHz	0.04026
1800 MHz	0.03142
1900 MHz	0.00038
2100 MHz	0.01346
2300 MHz	0.00076
2600 MHz TDD	0.00065
2600 MHz FDD	0.00028
3.4 GHz	0.01166
3.8 GHz	0.00736
Others	0.24330
Total	**0.43253**

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.