



Environmental EME Report

Location 19 Roseby St, DRUMMOYNE NSW 2047

Date 27/05/2022

RFNSA No. 2047002

How does this report work?

This report provides a summary of levels of radiofrequency (RF) electromagnetic energy (EME) around the wireless base station at 19 Roseby St, DRUMMOYNE NSW 2047. These levels have been calculated by Ericsson using methodology developed by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

A document describing how to interpret this report is available at ARPANSA's website:

[A Guide to the Environmental Report.](#)

A snapshot of calculated EME levels at this site

The maximum EME level calculated for the **existing** systems at this site is

0.83%

out of 100% of the public exposure limit, 80 m from the location.



There are currently no proposed radio systems for this site.

EME levels with the existing systems

Distance from the site	Percentage of the public exposure limit
0-50 m	0.52%
50-100 m	0.83%
100-200 m	0.72%
200-300 m	0.55%
300-400 m	0.31%
400-500 m	0.17%

For additional information please refer to the EME ARPANSA Report annexure for this site which can be found at <http://www.rfnsa.com.au/2047002>.

Radio systems at the site

This base station currently has equipment for transmitting the services listed under the existing configuration.

The proposal would modify the base station to include all the services listed under the proposed configuration.

Carrier	Existing		Proposed	
	Systems	Configuration	Systems	Configuration
Telstra	3G, 4G, 5G	NR3500, WCDMA850, LTE700, NR850, LTE1800, NR/LTE2600		

An in-depth look at calculated EME levels at this site

This table provides calculations of RF EME at different distances from the base station for emissions from existing equipment alone and for emissions from existing equipment and proposed equipment combined. All EME levels are relative to 1.5 m above ground and all distances from the site are in 360° circular bands.

Distance from the site	Existing configuration			Proposed configuration		
	Electric field (V/m)	Power density (mW/m ²)	Percentage of the public exposure limit	Electric field (V/m)	Power density (mW/m ²)	Percentage of the public exposure limit
0-50m	4.38	50.86	0.52%			
50-100m	5.56	81.97	0.83%			
100-200m	5.17	70.96	0.72%			
200-300m	3.95	41.48	0.55%			
300-400m	2.93	22.75	0.31%			
400-500m	2.21	12.98	0.17%			

Calculated EME levels at other areas of interest

This table contains calculations of the maximum EME levels at selected areas of interest, identified through consultation requirements of the [Communications Alliance Ltd Deployment Code CS64:2020](#) or other means. Calculations are performed over the indicated height range and include all existing and any proposed radio systems for this site.

Maximum cumulative EME level for the existing configuration

Location	Height range	Electric field (V/m)	Power density (mW/m ²)	Percentage of the public exposure limit
Think Childcare Limited	0-3 m	5.74	87.42	0.98%
Checked In Care - Aged Care	0-3 m	4.22	47.14	0.63%