

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	1102499
Licensee	Australian Maritime Safety Authority
Trading name	Maritime Coast/VIX/VIC
Licensee address	GPO Box 2181 Attn: Response Division Administration, Client ID 1102499, CANBERRA, ACT 2601

## Licence details

Licence service	Maritime Coast
Licence subservice	Major Coast A
Licence number	1138057/1
Callsign	VIC
Date of issue	22/12/2023
Date of effect	22/12/2023
Date of expiry	31/12/2024

## Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

### **Rights of appeal**

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

### **Important**

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

## ACMA contact details

Customer Service Centre  
PO Box 78  
BELCONNEN ACT 2616

Telephone: 1300 850 115  
Email: [info@acma.gov.au](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://www.acma.gov.au)

Certain information contained in this licence record will be disclosed in the Register of Radiocommunications Licences (RRL), established and maintained pursuant to Part 3.5 of the *Radiocommunications Act 1992*.

## **Special Conditions applying to licence no.: 1138057/1**

Usage of this frequency is on the basis that it is shared with equal rights by all users. It may be necessary to coordinate the sharing of this frequency with the view to preventing harmful interference.

## **Advisory Notes applying to licence no.: 1138057/1**

Conditions applicable to the operation of Major Coast station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination and the Radiocommunications Licence Conditions (Maritime Coast Licence) Determination. Copies of these determinations are available from the ACMA and from the ACMA home page ([www.acma.gov.au](http://www.acma.gov.au)).

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 1:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	4.207500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507496
Transmitter power	1.00 kW
EIRP	
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 1

Carrier Frequency : 4.2075 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 2:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	4.207500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507499
Transmitter power	N/A
EIRP	N/A
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 2

Carrier Frequency : 4.2075 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 3:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	6.312000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507500
Transmitter power	1.00 kW
EIRP	
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 3

Carrier Frequency : 6.312 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 4:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	6.312000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507503
Transmitter power	N/A
EIRP	N/A
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 4

Carrier Frequency : 6.312 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 5:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.414500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507504
Transmitter power	1.00 kW
EIRP	
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 5

Carrier Frequency : 8.4145 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 6:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	8.414500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507507
Transmitter power	N/A
EIRP	N/A
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 6

Carrier Frequency : 8.4145 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 7:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	12.577000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507508
Transmitter power	1.00 kW
EIRP	
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 7

Carrier Frequency : 12.577 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 8:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	12.577000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507511
Transmitter power	N/A
EIRP	N/A
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 8

Carrier Frequency : 12.577 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 9:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	16.804500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507512
Transmitter power	1.00 kW
EIRP	
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 9

Carrier Frequency : 16.8045 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 10:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	16.804500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507515
Transmitter power	N/A
EIRP	N/A
Emission designator	304HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 10

Carrier Frequency : 16.8045 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 11:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	4.126400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507516
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 11

Carrier Frequency : 4.125 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 12:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	4.126400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507519
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 12

Carrier Frequency : 4.125 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 13:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	6.216400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507520
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 13

Carrier Frequency : 6.215 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 14:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	6.216400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507523
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 14

Carrier Frequency : 6.215 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 15:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.292400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507524
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 15

Carrier Frequency : 8.291 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 16:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	8.292400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507527
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 16

Carrier Frequency : 8.291 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 17:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	12.291400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507528
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 17

Carrier Frequency : 12.290 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 18:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	12.291400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507531
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 18

Carrier Frequency : 12.290 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 19:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	16.421400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507532
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 19

Carrier Frequency : 16.420 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 20:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	16.421400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507535
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 20

Carrier Frequency : 16.420 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 21:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	4.177500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507536
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 21

Carrier Frequency : 4.1775 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 22:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	4.177500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507539
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 22

Carrier Frequency : 4.1775 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 23:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	6.268000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507540
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 23

Carrier Frequency : 6.268 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 24:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	6.268000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507543
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 24

Carrier Frequency : 6.268 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 25:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.376500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507544
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 25

Carrier Frequency : 8.3765 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 26:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	8.376500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507547
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 26

Carrier Frequency : 8.3765 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 27:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	12.520000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507548
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 27

Carrier Frequency : 12.520 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 28:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	12.520000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507551
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 28

Carrier Frequency : 12.520 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 29:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	16.695000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507552
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 29

Carrier Frequency : 16.695 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 30:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	16.695000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507555
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 30

Carrier Frequency : 16.695 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 31:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	4.210000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507556
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 31

Carrier Frequency : 4.210 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 32:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	6.314000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507558
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 32

Carrier Frequency : 6.314 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 33:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.416500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507560
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 33

Carrier Frequency : 8.4165 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 34:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	12.579000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507562
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 34

Carrier Frequency : 12.579 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 35:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	16.806500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507564
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 35

Carrier Frequency : 16.8065 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 36:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	26.100500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507566
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 36

Carrier Frequency : 26.1005 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 37:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	4.147400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507568
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 37

Carrier Frequency : 4.146 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 38:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	4.147400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507571
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 38

Carrier Frequency : 4.146 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 39:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	6.228400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507572
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 39

Carrier Frequency : 6.227 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 40:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	6.228400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507575
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 40

Carrier Frequency : 6.227 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 41:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.295400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507576
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 41

Carrier Frequency : 8.294 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 42:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	8.295400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507579
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 42

Carrier Frequency : 8.294 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 43:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	12.366400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507580
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 43

Carrier Frequency : 12.365 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 44:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	12.366400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507583
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 44

Carrier Frequency : 12.365 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 45:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	16.535400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507584
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 45

Carrier Frequency : 16.534 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 46:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	16.535400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507587
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 46

Carrier Frequency : 16.534 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 47:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	4.367400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507588
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 47

Carrier Frequency : 4.366 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 48:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	4.075400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507591
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 48

Carrier Frequency : 4.074 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 49:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	6.520400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507592
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 49

Carrier Frequency : 6.519 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 50:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	6.219400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507595
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 50

Carrier Frequency : 6.218 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 51:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.735400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507596
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 51

Carrier Frequency : 8.734 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 52:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	8.211400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507599
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 52

Carrier Frequency : 8.210 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 53:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	13.153400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507600
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 53

Carrier Frequency : 13.152 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 54:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	12.306400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507603
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 54

Carrier Frequency : 12.305 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 55:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	17.252400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507604
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 55

Carrier Frequency : 17.251 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 56:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	16.370400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507607
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 56

Carrier Frequency : 16.369 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 57:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	22.730400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507608
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 57

Carrier Frequency : 22.729 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 58:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	22.034400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507611
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 58

Carrier Frequency : 22.033 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 59:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	4.213000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507612
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 59

Carrier Frequency : 4.213 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 60:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	4.175000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507615
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 60

Carrier Frequency : 4.175 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 61:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	6.319000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507616
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 61

Carrier Frequency : 6.319 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 62:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	6.267500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507619
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 62

Carrier Frequency : 6.2675 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 63:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.421000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507620
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 63

Carrier Frequency : 8.421 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 64:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	8.381000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507623
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 64

Carrier Frequency : 8.381 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 65:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	12.582000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507624
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 65

Carrier Frequency : 12.582 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 66:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	12.479500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507627
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 66

Carrier Frequency : 12.4795 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 67:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	16.809500 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507628
Transmitter power	1.00 kW
EIRP	
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 67

Carrier Frequency : 16.8095 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 68:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	16.686000 MHz
Bandwidth	500.00 Hz
Freq. assign. ID	0000507631
Transmitter power	N/A
EIRP	N/A
Emission designator	280HF1B

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 68

Carrier Frequency : 16.686 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 69:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	8.723400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507632
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 69

Carrier Frequency : 8.722 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 70:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	8.199400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507635
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 70

Carrier Frequency : 8.198 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 71:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	13.084400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507636
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 71

Carrier Frequency : 13.083 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 72:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	12.237400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507639
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 72

Carrier Frequency : 12.236 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 73:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	17.246400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507640
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 73

Carrier Frequency : 17.245 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 74:

#### Site details

Site ID	132113
Site address	TVNZ(A) HF Rx MSCS remote site, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.54145125 Longitude: 146.26593377

#### Receiver details

Assigned frequency	16.364400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507643
Transmitter power	N/A
EIRP	N/A
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 74

Carrier Frequency : 16.363 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 75:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	22.703400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507644
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 75

Carrier Frequency : 22.702 MHz

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 76:

#### Site details

Site ID	132112
Site address	TVNZ(A) HF Tx MSCS remote site near Collaroy, CHARLEVILLE QLD 4470
Co-ordinates (GDA94)	Latitude: -26.32891213 Longitude: 146.26532191

#### Transmitter details

Assigned frequency	22.007400 MHz
Bandwidth	3.0000 kHz
Freq. assign. ID	0000507646
Transmitter power	1.00 kW
EIRP	
Emission designator	2K80J3E

#### Antenna details

Antenna ID	1
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 76

Carrier Frequency : 22.006 MHz