

# Regulations - New Amateur Radio

## Emission Modes

Bandwidth

- H 0.001Hz to 999.999Hz  
 K 1.00kHz to 999.999kHz  
 200Hz = 200H and 4kHz = 4K00

Emission Mode

- A AM Carrier (DSB)  
 H SSB, Full Carrier  
 R SSB, Reduced or Varied Carr.  
 J SSB, Supressed Carrier  
 B AM mod, independent Side Bnd  
 C AM mod, Vestigal Side Band  
 F Angle mod, FM  
 G Angle mod, Phase Mod'ion

Signals Modulated in main Carrier

- 1 Single Carr, Single Channel, Digital info, without sub carrier  
 2 Single Carrier, Single Channel, Digital info, with sub carrier  
 3 Single Channel, Analog info.  
 8 2 or more channels, Analog info

Kind of information

- A Telegraphy – Ears  
 B Telegraphy – Auto (computer)  
 C Fax  
 D Data  
 E Voice  
 F Video  
 W Combination of above

## Conditions

Comms by VK stations

- No transmitting of 3<sup>rd</sup> party information, unless relates to natural disaster.
- No transmitting to make financial gain or personal/financial affairs of 3<sup>rd</sup> party.
- No transmission to a countru listed in the Gazzette.

Use of VK Station.

Purposes: Self training, chatting, investigating into radio comms. Dont use for financial gain. Do not transmitt ads or entertainment. Dont operate station if causes interference to others.

Operation.

Transmitt Callsigns at the start and the end of a transmission. Use station being called followed by my callsign, listening, over.

Transmissions over 10 minutes use callsign every 10 minute intervals, by voice or universal code. In a series of transmissions, use callsigns at the start and the end of the series and at 10 minute intervals.

Emissions are to be intelligible, a carrier wave is for a test only. It is up to the amateur station operater to not cause any interference.

Re-transmission of another station. Need the other stations consent.

Transmitt other stations callsing at the start and the end of the transmission and indicate that this is a re-transmission.

Un-attended operation. Timer must be fitted for 10 minutes incase of malfunction and can be terminated promptly if it causes interference to other stations. No connection to PSTN for automatic modes.

Portable operation.

Must not operate away from registered address for more than 4 months without ACMA approval.

## Advanced station regs.

Permitted Frequency Bands:

- 1.8 – 1.875MHz  
 3.5 – 3.7MHz  
 3.776 – 3.8MHz  
 7 – 7.3MHz  
 10.1 – 10.150MHz  
 14.0 – 14.35MHz  
 18.068 – 18.168MHz  
 21.0 – 21.45MHz  
 24.89 – 24.99MHz  
 With any emission mode with a bandwidth of less than 8kHz

28.000 – 29.7000MHz

With any emission mode with a bandwidth of less than 16kHz

- 50 – 54MHz  
 144 – 148MHz

with a bandwidth of 100kHz or less

420 – 450MHz and greater with any emission mode and any bandwidth.

Regarding 50 – 52MHz bands near CH0 tv transmitter.

If near ch0 transmitter, Can only operate in 50 – 50.3Mhz with the following modes:

- 200HA1A  
 1k2F1D, or  
 4k00J3E.

Power:

No More than 400 Watts on SSTV, SSB.

No more than 120W all other emission modes.

## Standard station regs

Permitted Frequency Bands

- 3.5 – 3.7MHz  
 7.0 – 7.3MHz  
 14.0 – 14.35MHz  
 21.0 – 21.45MHz  
 Any emission mode not exceeding 8kHz

28 – 29.7MHz

52 – 54MHz

144 – 148MHz

430 – 450MHz

1.24 – 1.3GHz

2.4 – 2.45GHz

5.65 – 5.85MHz

Any emission mode not exceeding 16kHz

Transmission Power

Not exceed 100W on SSB

No more than 30W on other modes.

## Foundation Station regs

Only Unmodified commercial transmitters. Hand keyed morse only.

Bands:

- 3.5 – 3.7MHz  
 7.0 – 7.3MHz  
 21.00 – 21.45MHz  
 200HA1A Morse  
 8Khz AM voice  
 4Khz SSB voice

28 – 29.7MHz

144 – 148MHz

430 – 450MHz

modes above plus 16kHz Analog voice, 16kHz Phase modulation

Analog

## Regulations - New Amateur Radio

### Callsigns

VK areas:

- 0 Antarctica
- 1 ACT
- 2 NSW
- 3 VIC
- 4 QLD
- 5 SA
- 6 WA
- 7 TAS
- 8 NT
- 9 external territories

Special Callsigns

- AX Special national callsign
- VI Special State Callsign

Callsign prefix allocations

A,B,C,D,E,F,G,I,J,K,S,T,U,W,X,Y,Z

Advanced

H,L,M,N,P,V

Standard

F\*\*\*

Foundation

R

Repeater

RS,RT

Beacon

### 3<sup>rd</sup> Party traffic arrangements

3<sup>rd</sup> Party traffic arrangements are currently in place with:

USA, Canada, Israel, Honduras and Solomon Islands

### Emergency

Call the distress signal 3 times, (Mayday – voice, or SOS – telegraphy), Then “this is” or “DE” and my callsign.

Then the message consists of Particulars, nature and any other relevant information.

### “Q” Codes

- QRA Name
- QRG My Frequency
- QRH Your Freq varies
- QRK Intelligibility of signals
- QRN Natural Noise
- QRM Man made noise
- QRO Increase power
- QRP Decrease power
- QRQ send faster?
- QRS Send Slower
- QRT Stop sending
- QRX Call again
- QRZ Who is calling me?
- QSA Signal Strength
- QSB Fading
- QSL Acknowledge
- QSO Conversation
- QSP Relay a message
- QSX Listening to on...
- QSY Move to
- QSZ Send twice
- QTH Location
- QUM normal working

### More Emission Modes

	<i>AM</i>	<i>SSB</i>	<i>FM</i>	<i>PM</i>
Morse	A1A	J2A	F1B	G1B
	A1B	J2B		
Speech	A3E	J3E	F3E	G3E
Data	A2D	J2D	F1D	G1D
	A1D		F2D	G2D
RTTY	A2D	J2D	F2D	G2D
Fax	A2C	J2C	F2C	G2F
FSTV	C3F	J3F	F3F	G3F
	A3F			
SSTV	A2F	J2F	F2F	G2F
		J3F	F3F	G3F