

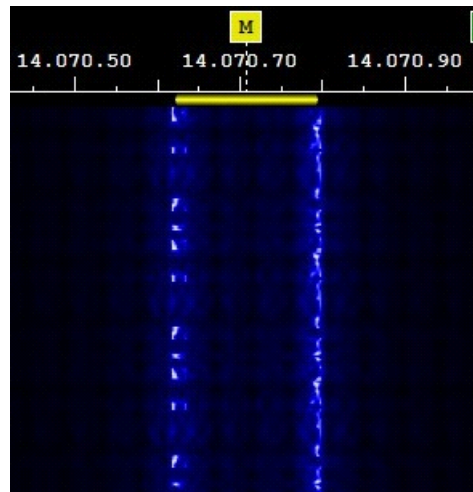
The following is provided to help figure out what digital format is being sent. The first hint is the width of the (yellow) receive gate i.e. width of the signal or the band of frequencies being used. If it is wider or narrower than the signal, then you are using the wrong resolution or not using the correct format.

Another way to determine the correct format is to look at the pattern displayed on the waterfall. Most formats will show distinctive patterns. If the pattern matches but the receive gate doesn't, then you need to try a different "resolution". The higher the value, the wider the receive gate.

For instance, Olivia 8/250 is very narrow compared to Olivia 32/1000. The lower number (8/250) represents lower (and slower) data rate compared to the higher number (32/1000). Likewise, the lower number uses less spectrum while the higher number uses many times more.

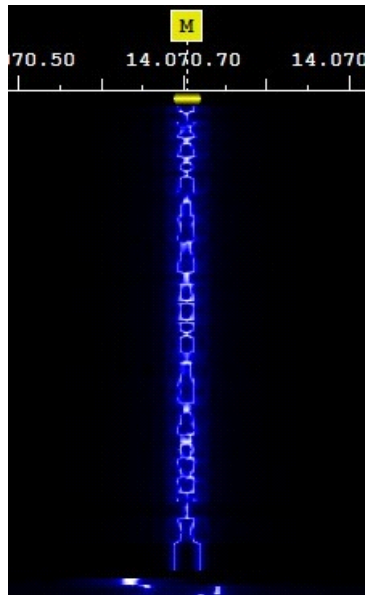
**RTTY** 14.080 - 14.099 Mhz LSB

"CQ DX DE KC6BPH, UP 10" means you are listening up 10 kHz  
ALC should be adjusted to zero using your Xmt audio level.



**BPSK31**

3580 MHz, 7070 MHz, 10140 MHz, **14.070 MHz**, 21.070 MHz, 28.120 MHz



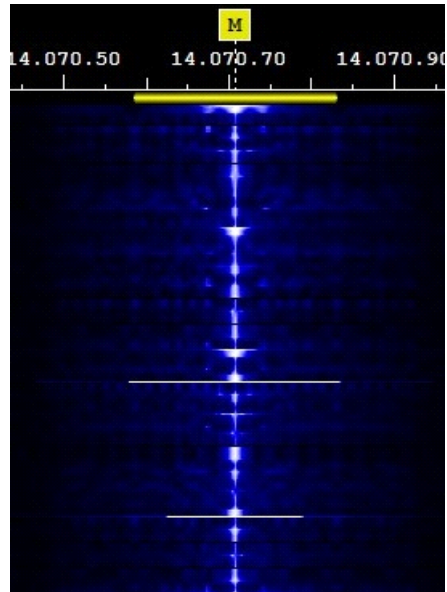
Note: QPSK looks to me just like BPSK on the spectrum display

With Video ID

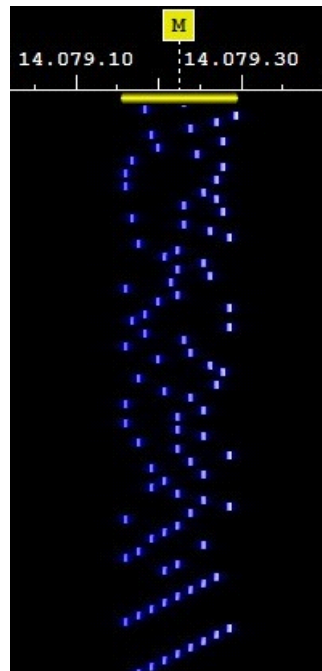


MFSK-4

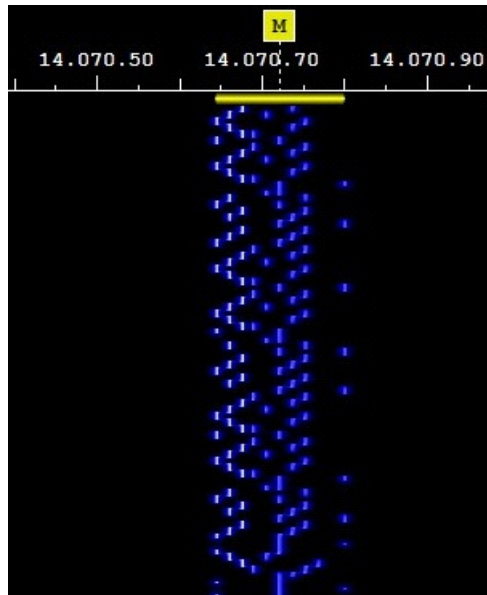




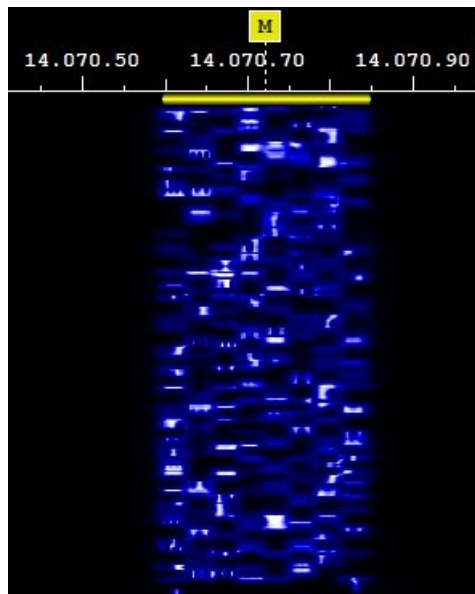
**THOR 4**



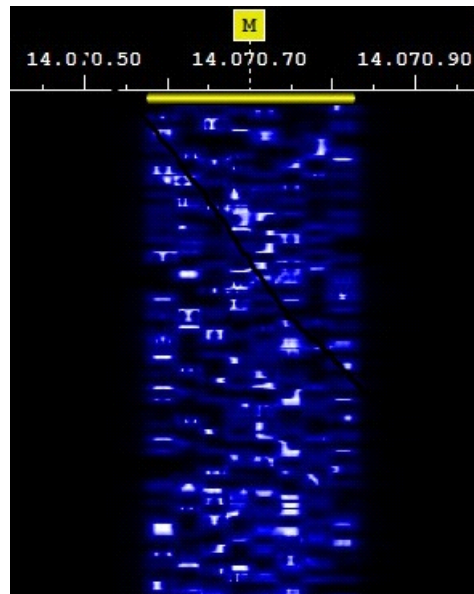
**THROB** 14.080 MHz, weekends  
Throb x2 waterfall



**CONTESTIA 8/250**

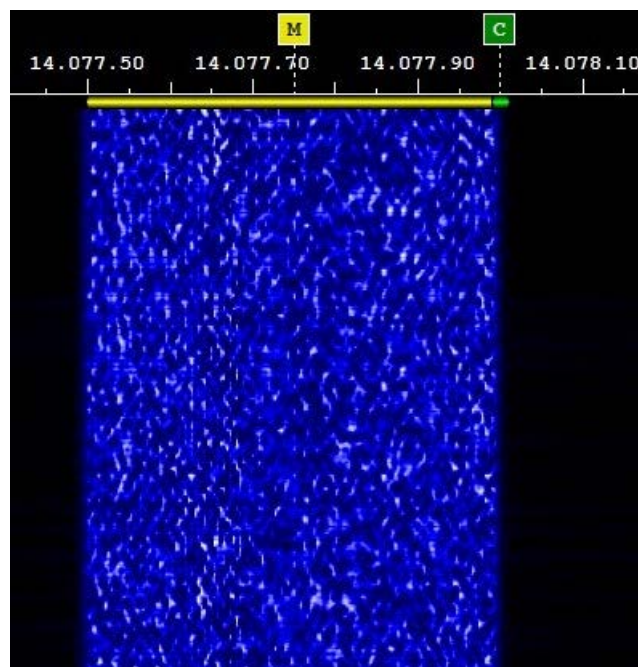


**OLIVIA 8/250**



There is little difference between the waterfall of Contestia and Olivia

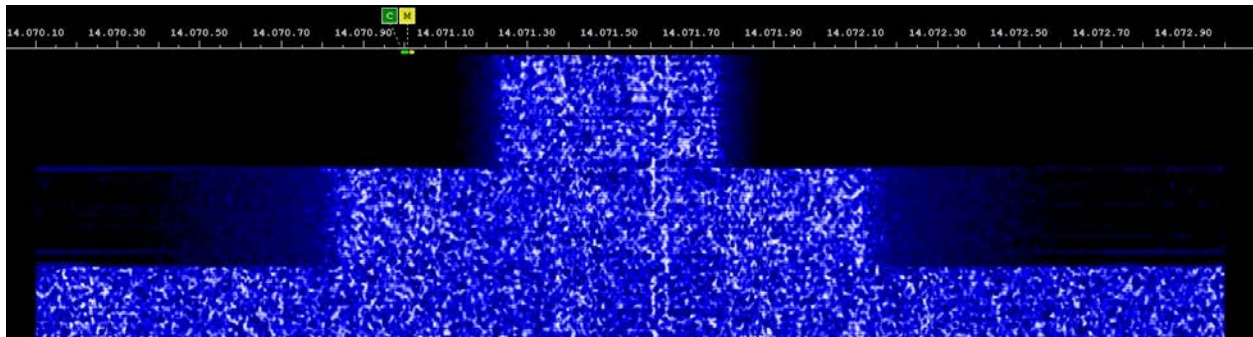
### MT63 500



Note: All pictures are waterfall screen captures while sending: "CQ CQ CQ de KC6BPH KC6BPH KC6BPH PSE K" multiple times (x2 or x3). The lowest resolution/slowest speed were selected for most of the formats. Minor frequency tick marks are 50 Hz.

Another issue that may pop up is having your waterfall narrow down to about 50% of the middle

of the screen. This is caused by your bandpass filter setup on your radio not being wide enough. On the IC-7300, it needs to be set to 3.6K and Sharp. This is how the difference is seen on the scope:



The top is with a 500K filter, the middle with a 1.2K filter, and the bottom with a 3.6K filter.