

Checking the TV frequency channel using spectrum analyzer

- ◇ Displaying the frequency spectrum of the target channel to be measured by utilizing the strong point of wide span.
 - The improvement of the receiving environment will be performed by checking the impact of the flying or ingress noise and also the receiving level.

Application

By knowing the receiving state and leaving the history, it will become easy to propose the maintenance of TV viewing facilities and the exchange of coaxial cables in the apartment.
Furthermore, when installing parabolic antenna or booster, it is also possible to determine the receiving direction of the antenna.

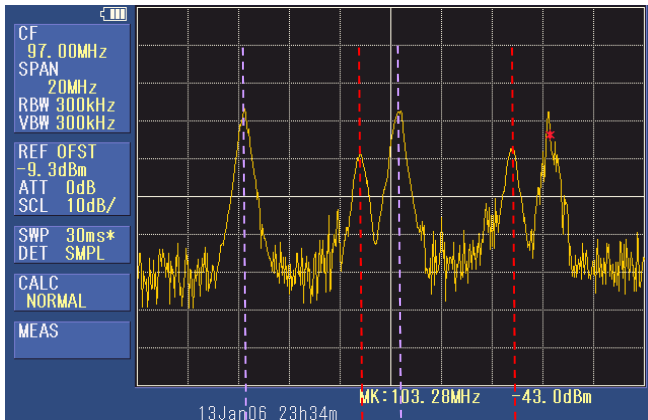
Solution

Clarify the TV frequencies targeted and then record the current status of this frequency band using "SAVE function" of MSA400/300 series.

①. [CATV]

I ... Analog to digital conversion (until the end of March,2015)

ex.) Low band (for terrestrial analog VHF)

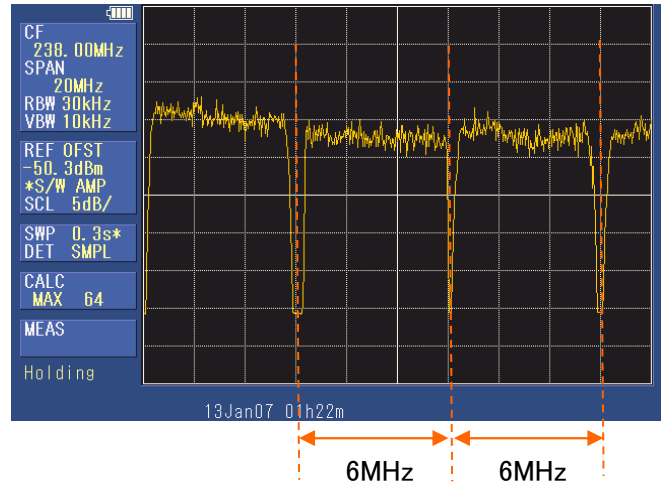


NHK: Image frequency 91.25MHz
NHK: Audio frequency 95.75MHz

TokyoMX: Image freq. 97.25MHz
TokyoMX: Audio freq. 101.75MHz

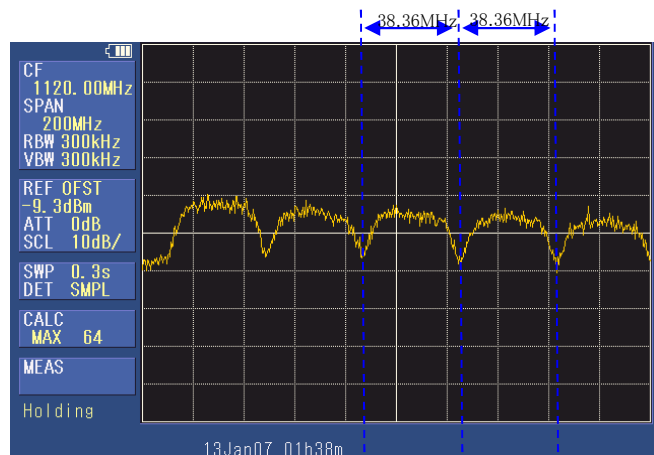
II ... Frequency conversion pass-through (digital terrestrial)

ex.) Channel number 011 → Transmission channel C24



Adjacent transmission channels: 6MHz bandwidth

②. [BS/110°C CS] ... ex.) Parabolic antenna (Fixation of a receiving angle at the time of antenna installation)



※ System configuration depends on measuring object or application.

Also, please check the configuration of transmission channel at the time of frequency conversion pass-through because it will depend on each station.

System configuration

Spectrum analyzer	MSA438	1
Adapter	MA308 N(P)/BNC(J) 50Ω/75Ω	1

2013/1