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радиолюбителя OSA10****Forum**

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Qansheng UV-K5 at 27MHz

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Topic: Qansheng UV-K5 at 27MHz

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XENOMORPH ◉

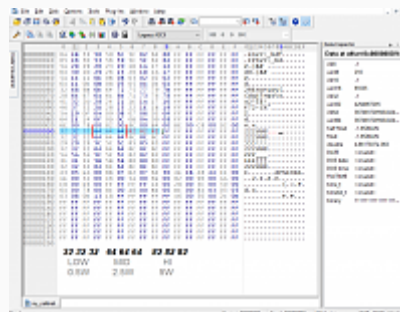
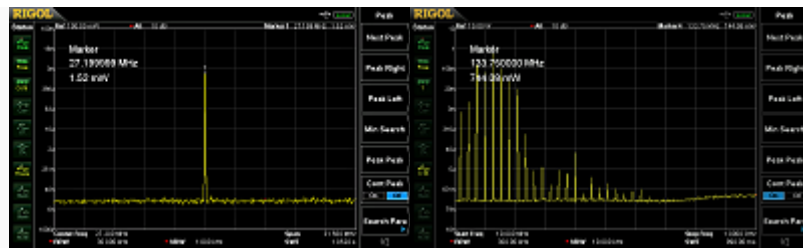
Registration :
13.12.2009
Messages : 1,641

Qansheng UV-K5 at 27MHz

Quansheng UV-K5 on 27MHz

Rebuilding Quansheng UV-K5 on CB range 27MHz (25.165 - 30.105MHz). As you know, in stock at 27 Mhz, the producer a bunch of harmonics where it should not, and the real power at a frequency of 27MHz is no more than two milliwatts. Therefore order to work still on CB, you need to rework. After reworking, we get a portable FM transceiver with many settings of real VHF, and a spectrum analyzer. + bonuses, a crutch in the form of AM / DSB reception, and the capacity to transmit with a shift of 3.5KHz for AM on the other side. The radio station works only on the specified in the data The firmware is modified. The chip has output power for this frequency range, adjusted deviation levels for and narrow wide bands, changed DSP audio filter settings for reception and transmission, removed the tail when releasing the, transmission and much more. (In general, you can be able to any other firmware from the network, with your own modification of the available sources). Entering the firmware mode (holding PTT, turning by the volume knob, the white LED will light) Software for programming k5prog in the archive. After flashing, reset the settings (ALL) (Enter the menu, long press the M button). In the calibration file (my_calibration) (made by the k5prog software), using the Hex Workshop editor, you can adjustable three power levels (LOW 0.5W, MID 2.5W, HI 5W) if consumed (HEX in DEC). Reading calibrations, just turn on the radio, connect by selecting the COM port, click Read Calibration and save the file. The hardware rework is in the photo. Delete unnecessary elements. Solder new is as specified. It is a convenient to rework it like this: Disassemble the case, pull it out (very carefully! two plastic latches!) and unsolder the LCD, solder the power supply wires for the LAB to the terminals and - on the back of the power supply of 20 centimeters long. Solder an external speaker to the wires, and solder an external button to the TX button for easy adjustment of the router and pressing TX. Towards, You Need to Retreat the Areas by Stress with Stress 2.5 and M (25 M), 2.8 and M (28 MHz), 3.0 M and 30 Mhz. By compressing and stretching the turn and selecting capacitors (by poking SMD capacitors with ceramich tweezers) a power of 5-5.5 watts at 7.8 volts supply. The route on the left (160nH) is the most sensitive to tuning.



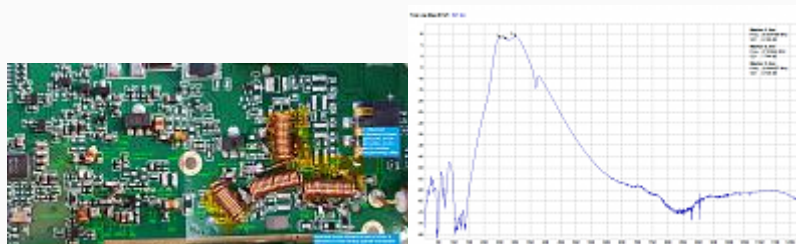


When applying the chassis, by compressing and stretching the trans, it is nesting to adjust it so that the power is evenly between the edges of the processes.

The receiver (bandpass filters in the RF amplifier) must be evolved using NanoVNA. (To the RF amplifier output, after the PIN diode, connect the lower VNA input through 100 pF).

There are two modes of modifying the choosing bandpass filters. The first is simpler, do not demanding, while the thening from below (below 25 MHz) and above is not very good, no more than 15 dB, but after the dynamic range it is better than the value of the stock version. In stock, the sensitivity is about 0.9 μV at 27 MHz (it is blocked by any operating closely transmitter), after modification of 0.15 μV (it will not poke from the "two"). The second is more difficult (you will have to tinker with the selection of bandpass capacitors for a uniform on the graph), but the onion is much better. After the modification, the sensitivity is -120 dBm, the maximum power in HI mode is 5 W. The level of the second harmonic is 4 microwatts at 5 watts at the output. The total suppression of out-of-band emissions of the transmitter is more than 60 dB. The threshold for opening the noise suppressor at

(level 1) is --125 dBm. Spectra are 5 and 2.5 watts. Firmware **27 MHz.rar**



Thanks from DerBear , er1ak , R8CDB , R9AAA , RJ6OM , SARMAT , Serg , sonet , Solovey

27.05.2025, 10:47

#2

Serg



Registration :
31.01.2003
Messages : 17,766

Thank you.

If only all the "modders" weren't lazy and drew modifications right on the diagrams, out the values of original or parts, will be no price.

XENOMORPH ◉

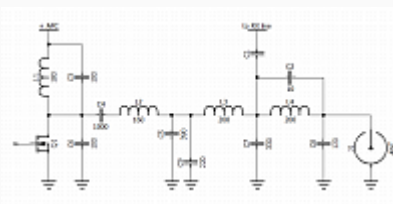
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Message from **Serg** »

They will be able to draw the modifications directly on the diagrams

The radio are a hundred years, old, but still train the real scheme without errors, and there are questions about the one that is available, so we are draw on pictures.

As the youngsters write in Telegram, draw on the photo of the board, not everyone can read (disambiguation)))
Removal map. Output scheme.



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by RN3GP in the section Modification of Radio Stations

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Last post: 06/28/2024, 13:50

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from R1AIT in the section Transceivers, receiving, HF/VHF

Answers: 14

Last post: 24.11.2022, 14:38

Deaf Quansheng TG-K4AT?

by LZ3DA in the Technical Office section

Answers: 10

Last post: 03.07.2020, 15:17

QUANSHENG TG-UV

by uy2ub in the section Modification of Radio Stations

Answers: 22

Last post: 21.12.2018, 21:29

General calling channel on 27MHz

from EW2ABC in the section for HF convoys

Answers: 42

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