FG085 Distortion Test Report

Date of Test: Dec. 5, 2015
Location of Test: JYE Tech Ltd., Guilin

1. Information about devices to be tested

Model: FG085
Part Number: 08503P
Number of devices to be tested: 5

Fig. 1

2. Equipment Used in the Test

1) GAD-201G automatic distortion meter (manufacturer: GW Instek, http://www.gwinstek.com)
2) DS1102E oscilloscope (manufacturer: Rigol, http://www.rigol.com)
3) 15V/1A switching mode power adapter

3. Test Setup and Procedures

1) Connection Diagram

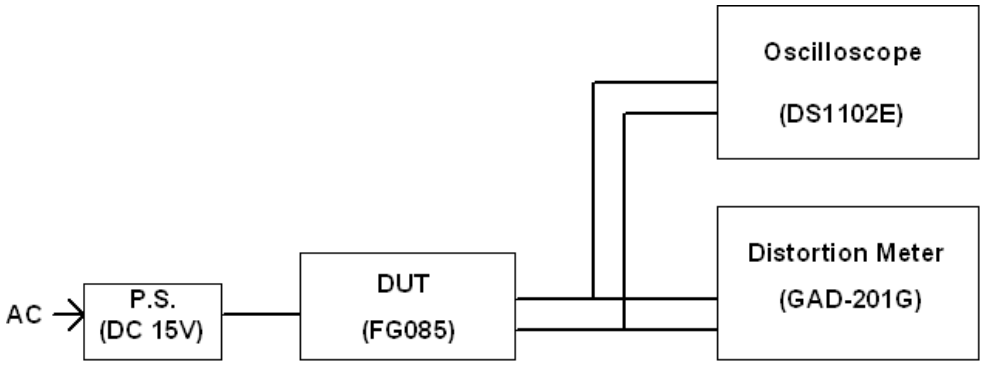


Fig. 2

Fig. 3

2) Test Procedures

a) Connect distortion meter, oscilloscope, and DUT as described in 1) above.

b) Power up distortion meter, oscilloscope, and DUT.

c) Select distortion meter frequency range to 10K by depressing the push button labeled “10KHz” on front panel.

d) Set oscilloscope sensitivity to 2V/div, timebase to 50us/div, and vertical position to the middle of vertical scale.

e) Set DUT to following parameters respectively:

Condition 1: Output frequency: 10KHz
Offset: 0V
Amplitude: 5Vpp

Condition 2: Output frequency: 10KHz
Offset: 0V
Amplitude: 10Vpp

f) Monitor waveform on oscilloscope to make sure waveform type, amplitude, and offset meet test conditions.

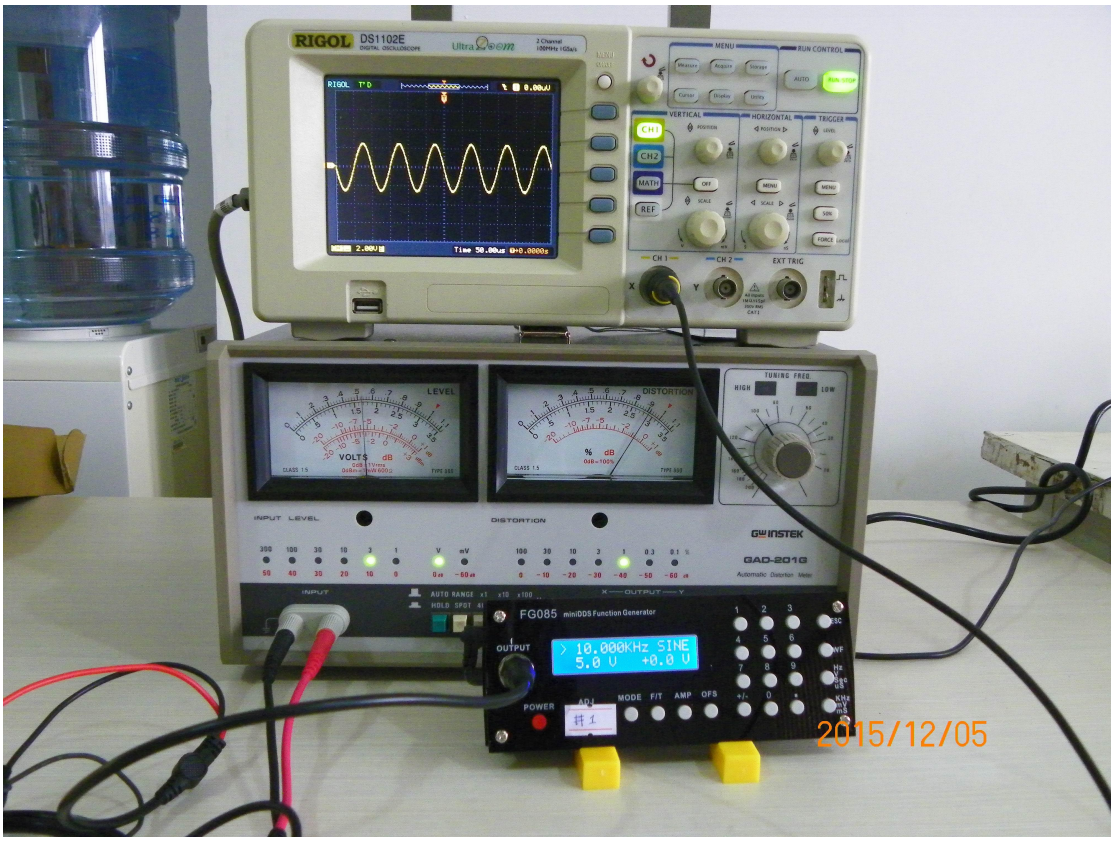
g) On distortion meter turn the “Tuning Freq” knob to the direction indicated by the “High” or “Low” indicators if they light up until both indicators are off.

h) Read test result on distortion meter by combining range indicator and scale reading.

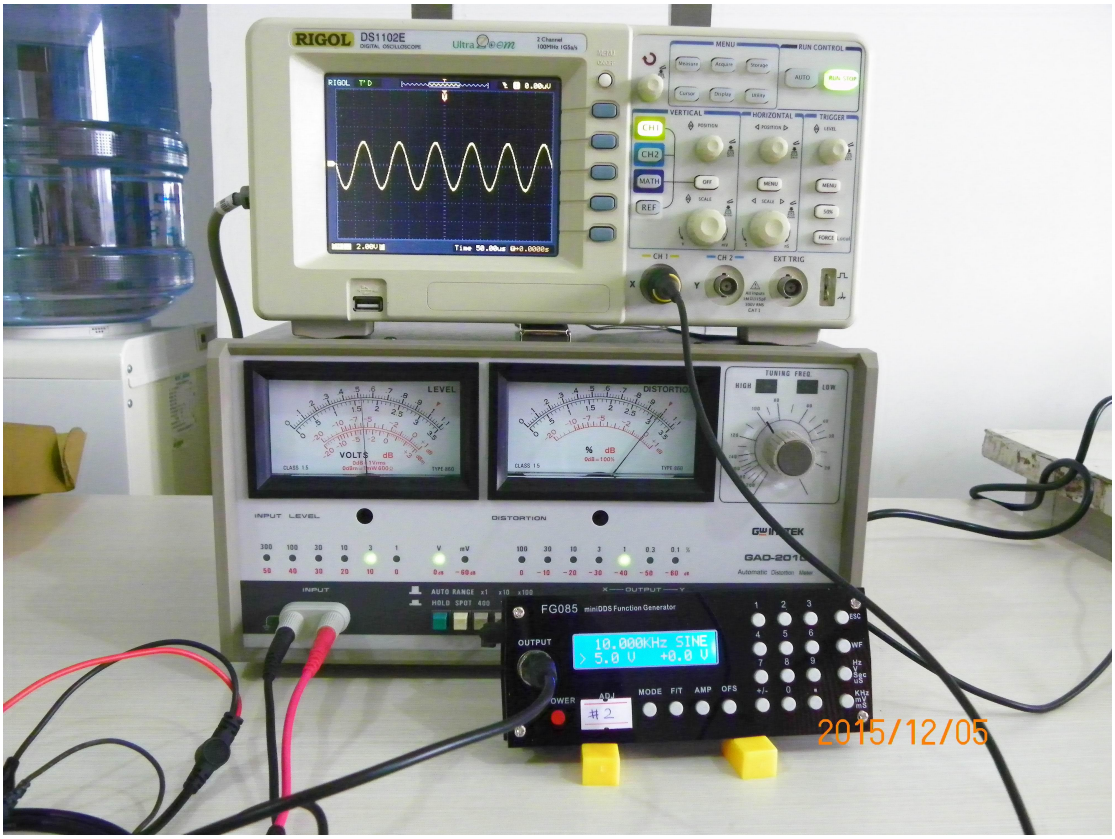
4. Test Results

Sample #	Distortion (%) under Condition 1 (5Vpp)	Distortion (%) under Condition 2 (10Vpp)
1	0.92	0.91
2	0.99	0.99
3	1.28	1.30
4	1.18	1.19
5	1.18	1.20

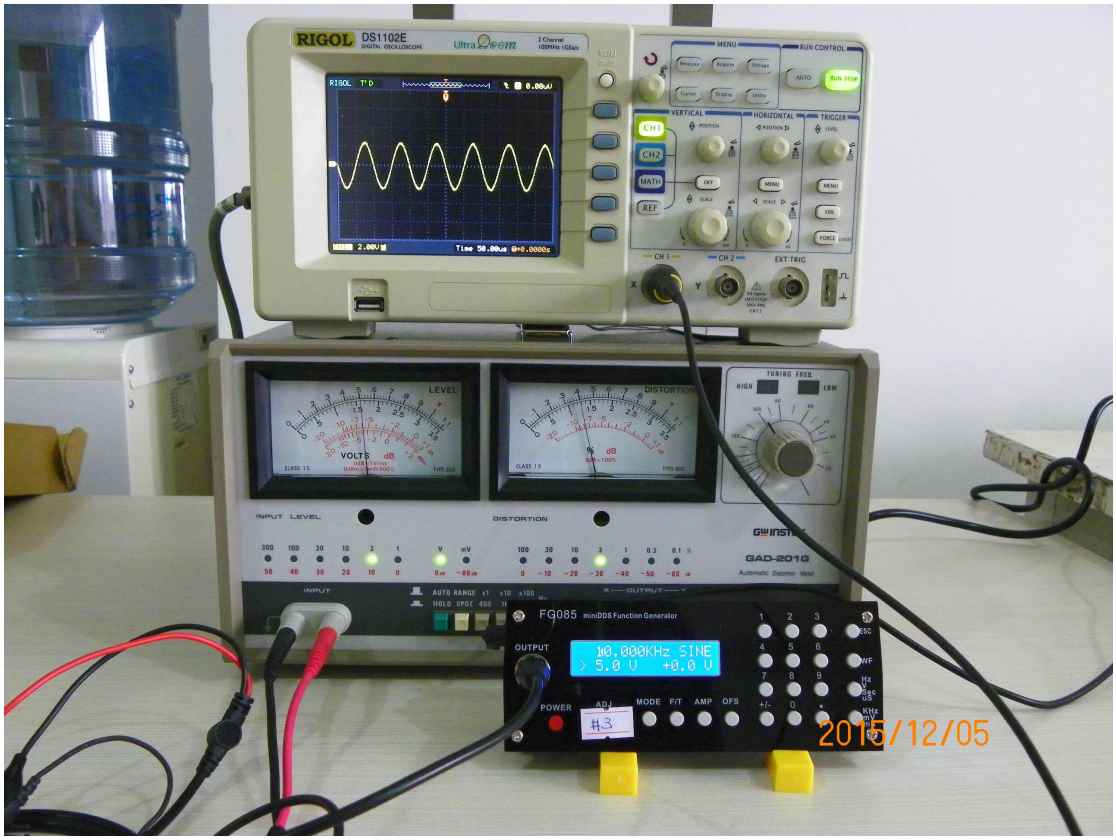
5. Photos



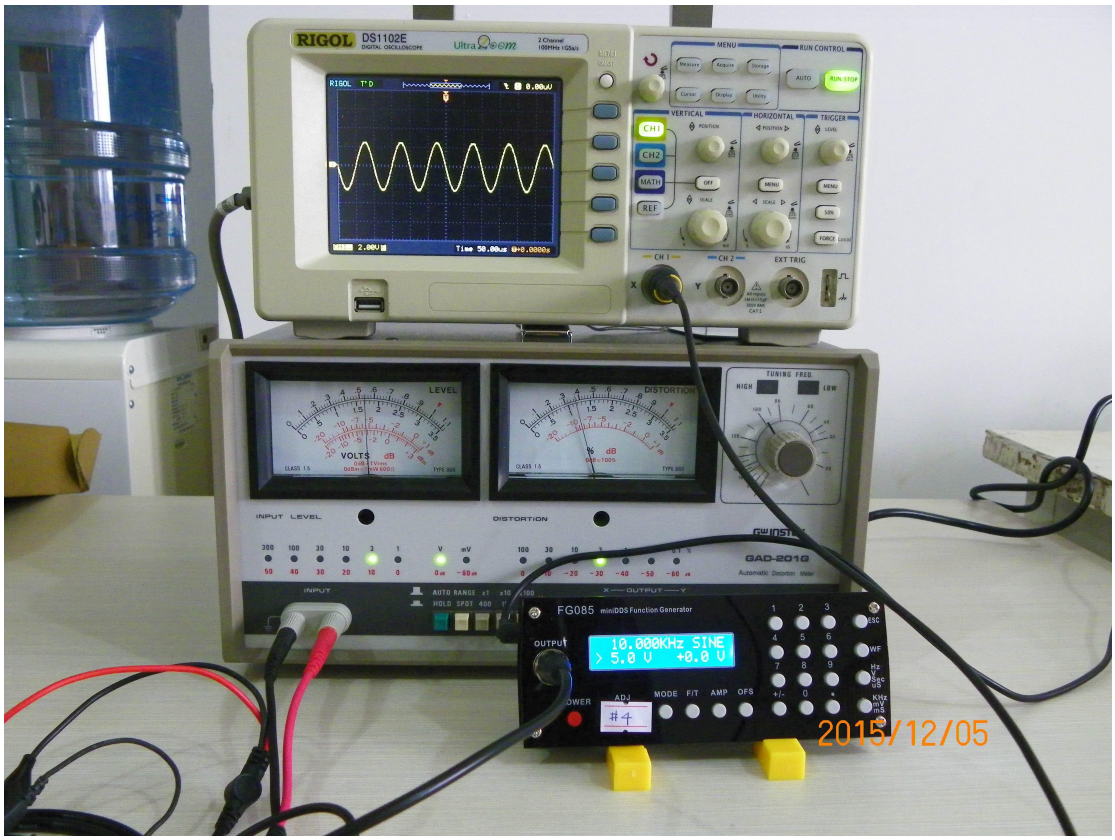
5Vpp -- Sample #1



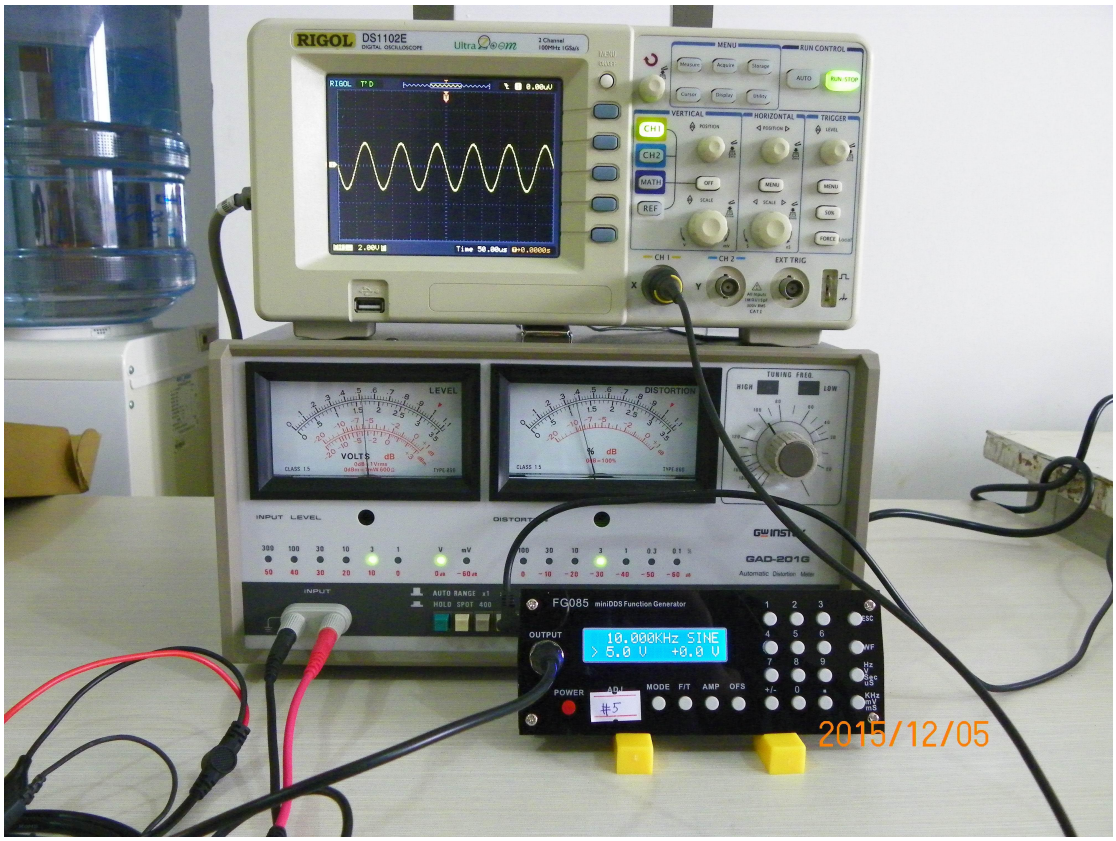
5Vpp -- Sample #2



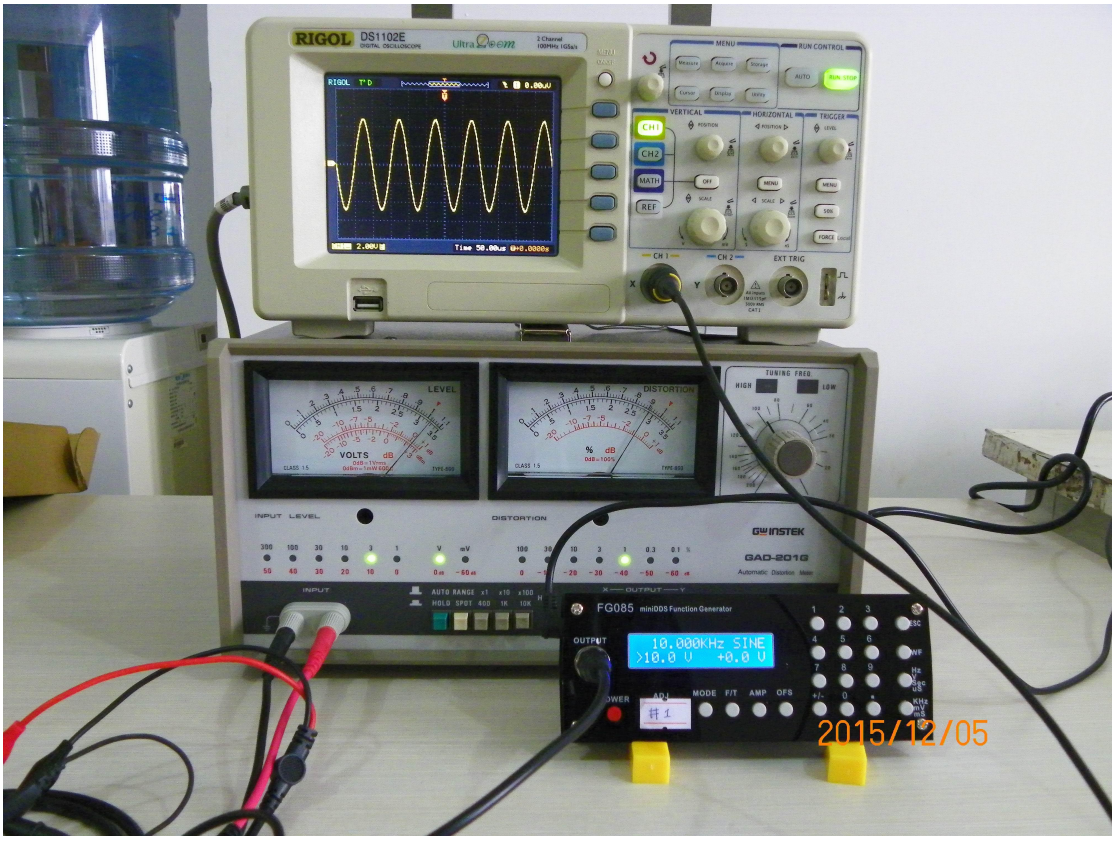
5Vpp -- Sample #3



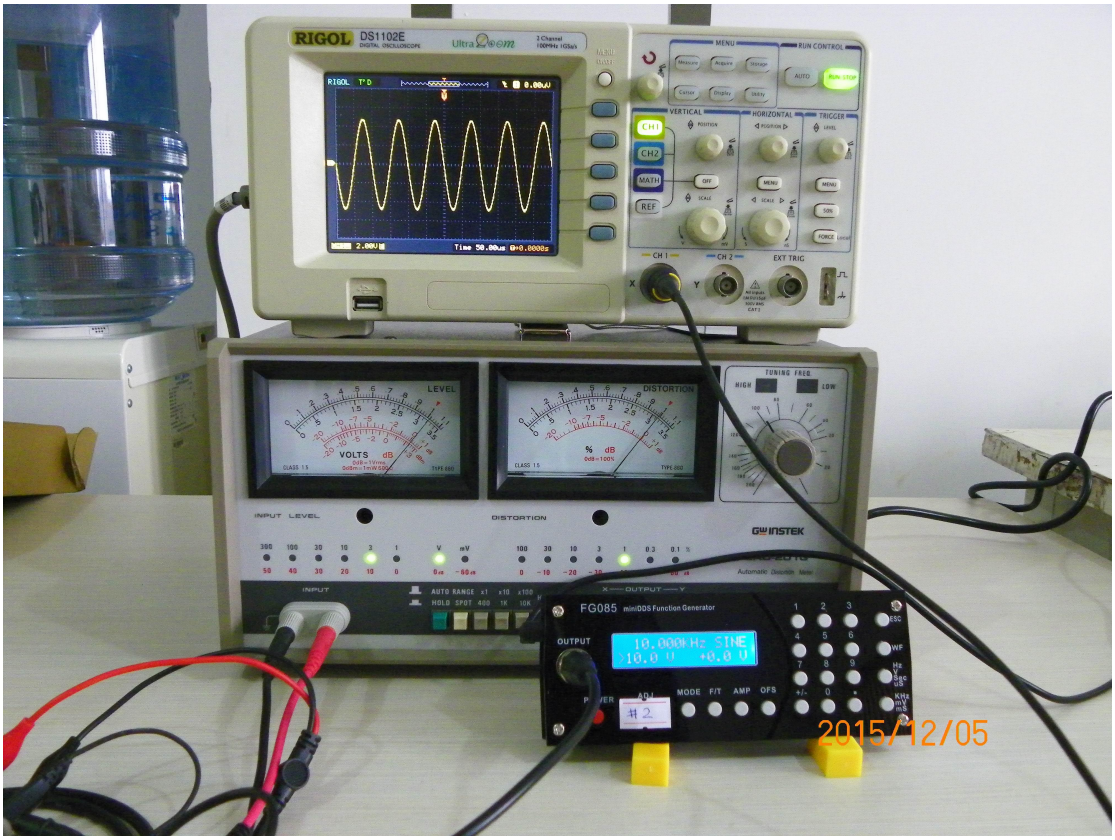
5Vpp -- Sample #4



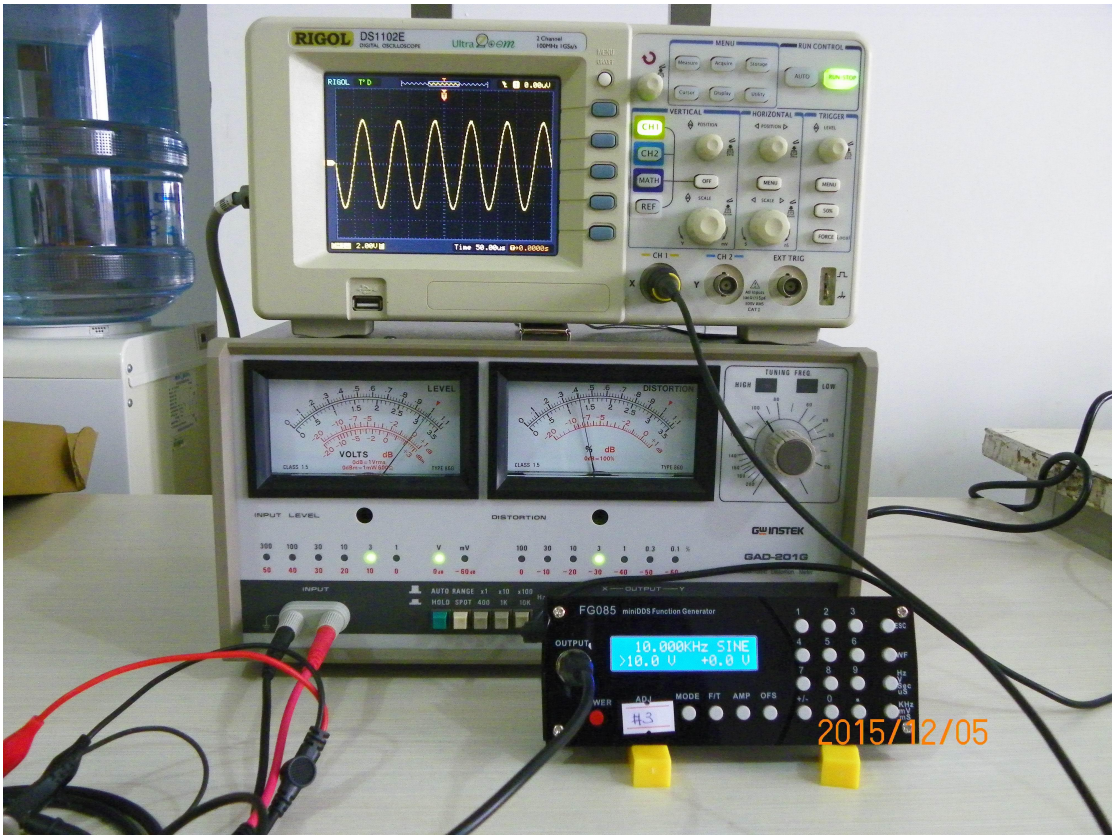
5Vpp -- Sample #5



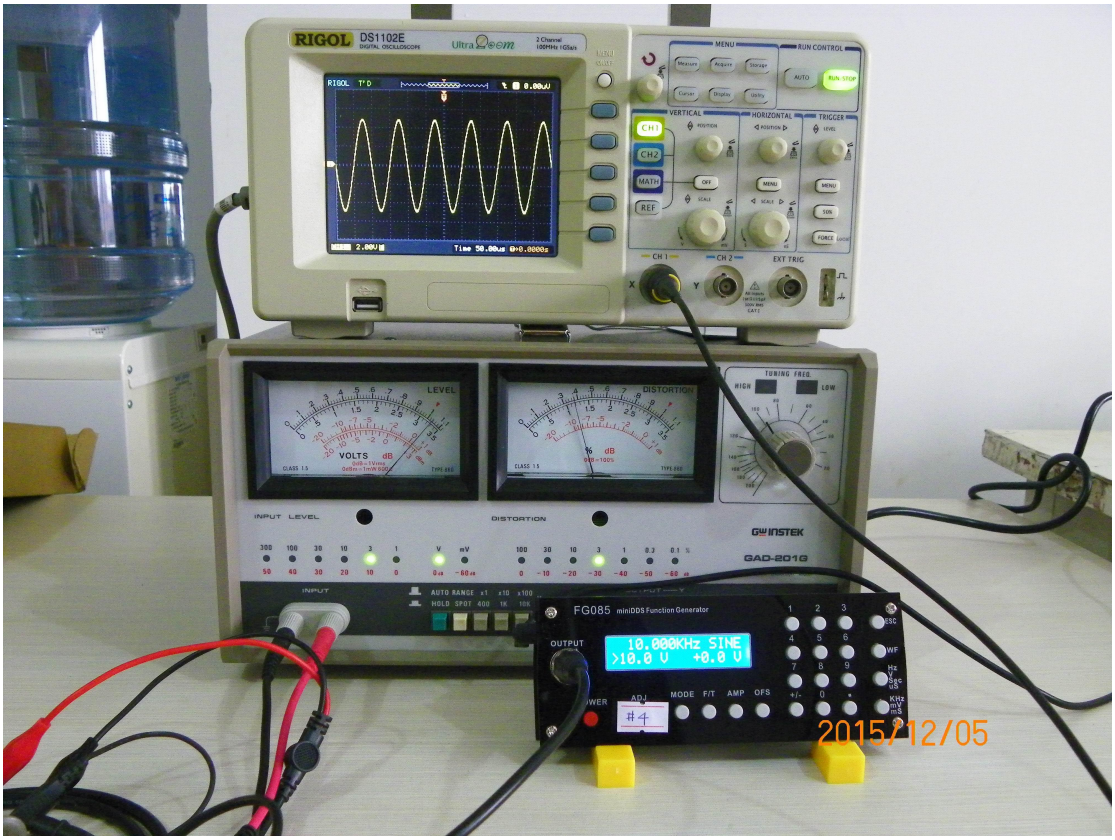
10Vpp -- Sample #1



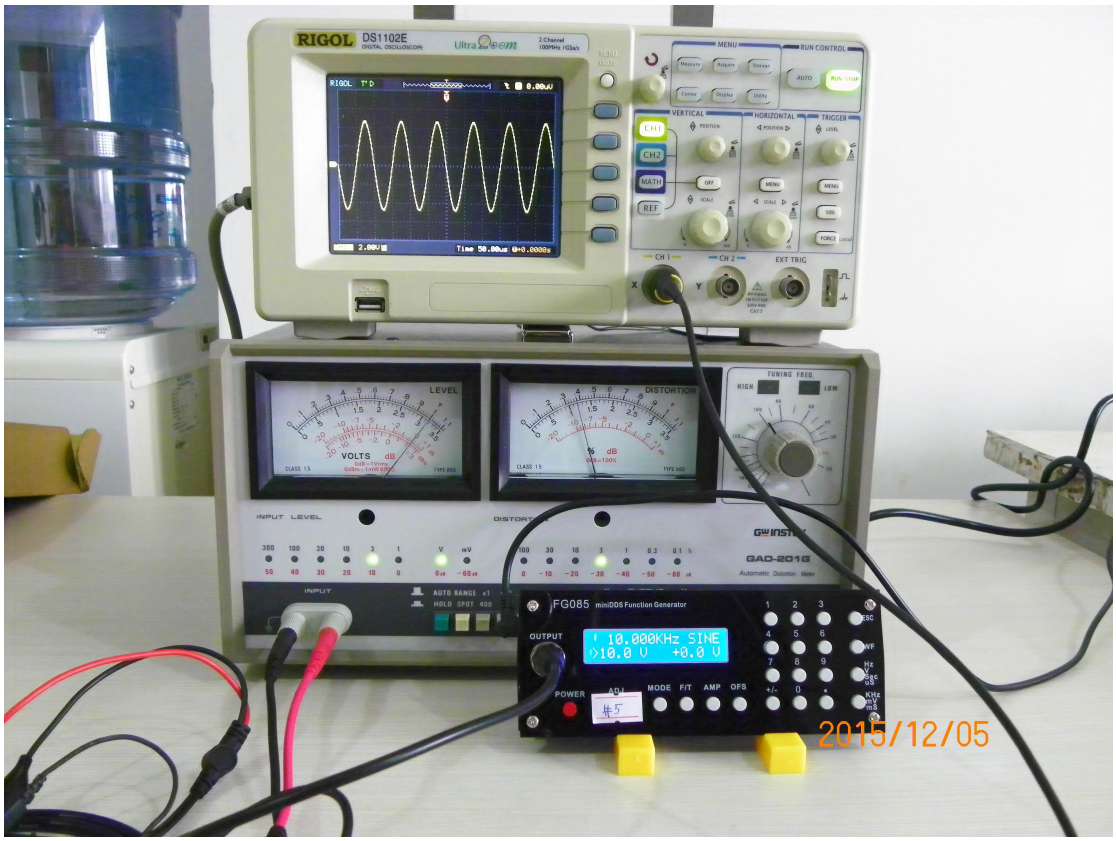
10Vpp -- Sample #2



10Vpp -- Sample #3



10Vpp -- Sample #4



10Vpp -- Sample #5

10Vpp -- Sample #2