UTE LABORATORY



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Standard frequency

- Caesium Atomic Clock 5071A
- NTP Server
- GPSDO
- Rubidium Atomic Clock with drift compensated (own development)
- Rubidium Atomic Clock running free (2 units)



Equipment

- Common View System GPS, SIM
- Universal counter (up 350MHz, 2 units)
- Universal counter (up 15GHz, 1 units)
- Arbitrary function generator
- (1µHz -100MHz, frequency resolution up 12bits)
- Frequency generator (10MHz 20GHz)
- Oscilloscope (100MHz, 1GS and 9bits)



- Equipment & Measurement System, own development
 - Time and Frequency Distribution Amplifier (20 outputs of 10MHz and 10 outputs of 1pps)
 - Stopwatches calibrator system
 - Dual mixer frequency measurement system
 - Tachometer with output frequency (effective resolution: 0.01 RPM)
 - NTP monitoring system, comparison our NTP with NIST, NRC, CEMAN, PTB and ROA



Calibration Services

- Stopwatches and timer
- Tachometer
- Relay and switch calibrator
- Universal counters
- Frequency oscillators
- Signal generators
- Standard Frequency



Future development

Standard frequency monitoring system
Universal counter
Scanner (8 inputs and 2 outputs)
Software (in process)

 Participate in the generation UTC (Circular T)

 Technical procedure review and publication of CMC



THANK YOU FOR YOUR ATTENTION

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