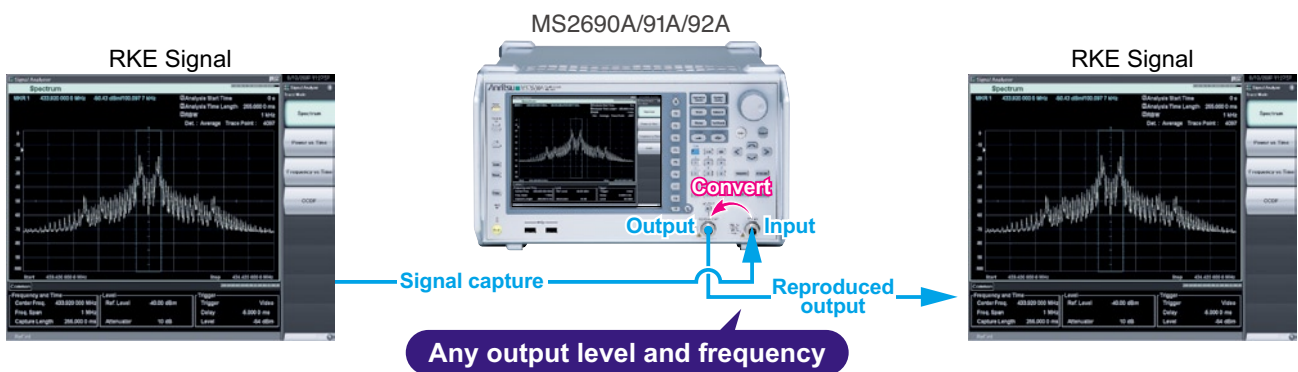


# Proposal for Vehicle Wireless Measuring Instrument

MS2690A/91A/92A  
Signal Analyzer

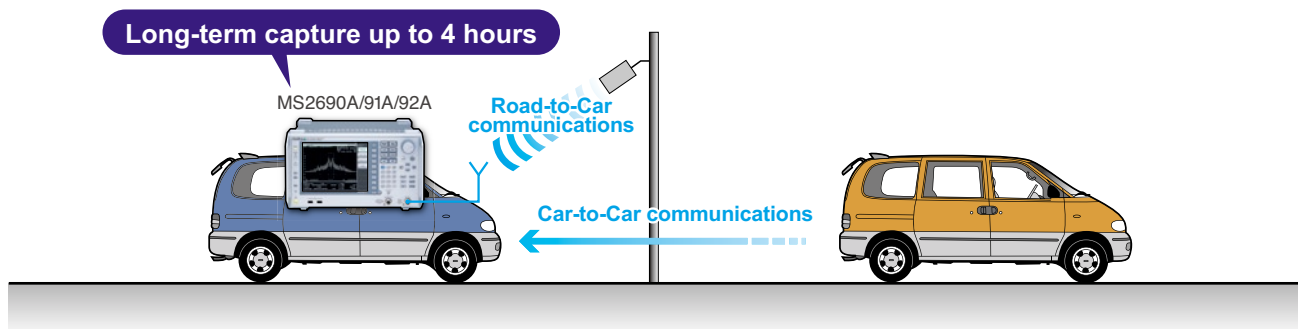
## Easy Capture and Reproduction of Actual RKE and TPM Signals

The system uses a built-in vector signal generator to reproduce captured actual signals, including Remote Keyless Entry (RKE) and Tire-Pressure Monitoring System (TPMS). This is good for troubleshooting faults because waveform-converted signals can be reproduced repeatedly. In addition, the DUT Rx characteristics are easily verified because reproduced signals can be output at any level and frequency.



## Useful Long-term Capture

Up to 4 hours of RF signals at 20 MHz max. can be captured by installing the optional MS2690A/91A/92A-050 HDD Digitizing Interface. The characteristics of time-shifted signals, such as DSRC and IEEE802.11p used for car-to-car and road-to-car communications, can be measured using analysis tools like MATLAB.



## Flexible Signal Analysis using VSA Function

Captured pulse signals and noise are analyzed using the flexible VSA function supporting Spectrum, Power vs. Time, and Frequency vs. Time displays. In addition, spectrum performance can be checked intuitively using the Spectrogram display showing frequency, time, and power on one screen to troubleshoot and develop car wireless equipment, such as RKE and TPMS, using FSK signals.

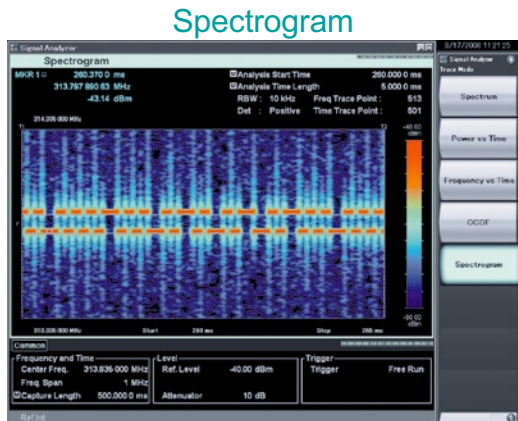
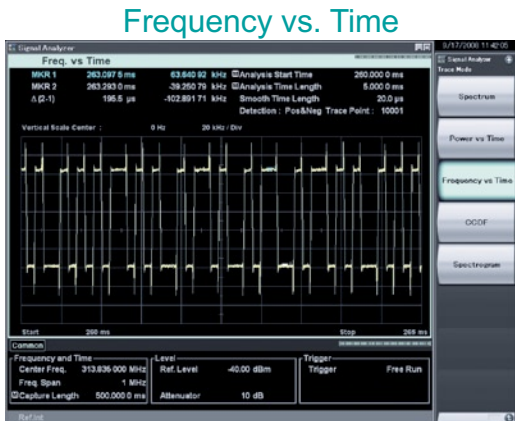
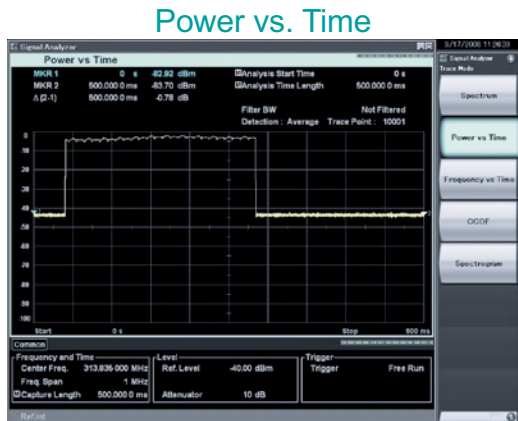
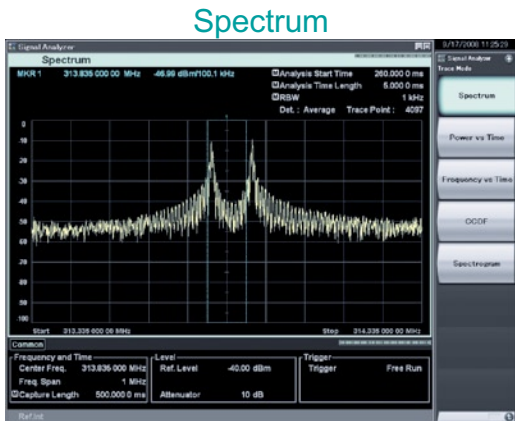


**Remote Keyless Entry (RKE)**



**Tire-Pressure Monitoring System (TPMS)**

### RKE Measurements using VSA Function



### Ordering Information (Summary)

Main Frame	MS2690A	Signal Analyzer (50Hz to 6GHz)
	MS2691A	Signal Analyzer (50Hz to 13.5GHz)
	MS2692A	Signal Analyzer (50Hz to 26.5GHz)
Hardware Options	MS2690A/91A/92A-020	Vector Signal Generator (125MHz~6GHz)
	MS2690A/91A/92A-050	HDD Digitizing Interface

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