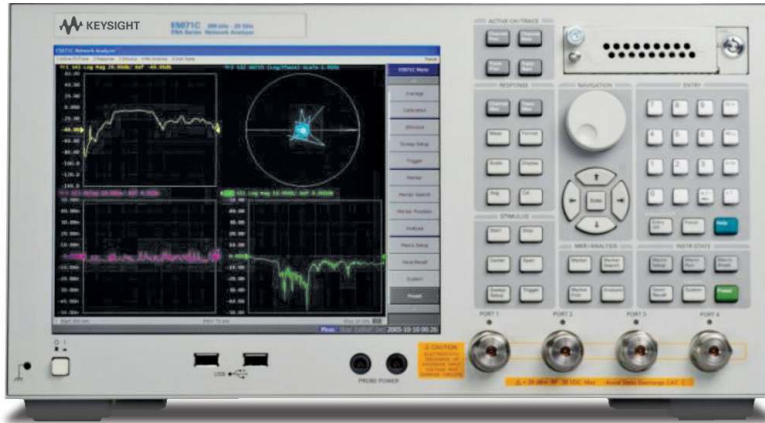# Keysight E5071C ENA Series Network Analyzer - Hardware Enhancement
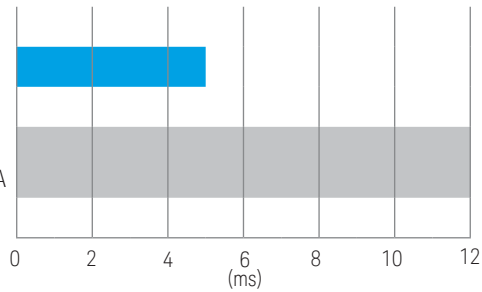
ENA continues to provide best-in-class performance to customers.

Key features:

- 2x faster measurement speed than any other competitive VNA
- 4x faster Save/Recall time than previous hardware configuration's E5071C [1]
- Improved boot time by more than 30 percent

Measurement speed, E5071C vs. other company's RF VNA

Start 1 GHz , Stop 1.2 GHz, IFBW 100 kHz, 201 points, Full 2-port calibration, Display update OFF, RF range fixed mode: ON [2]
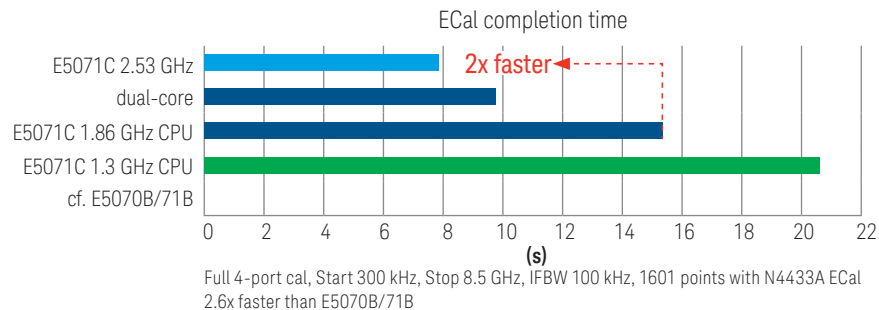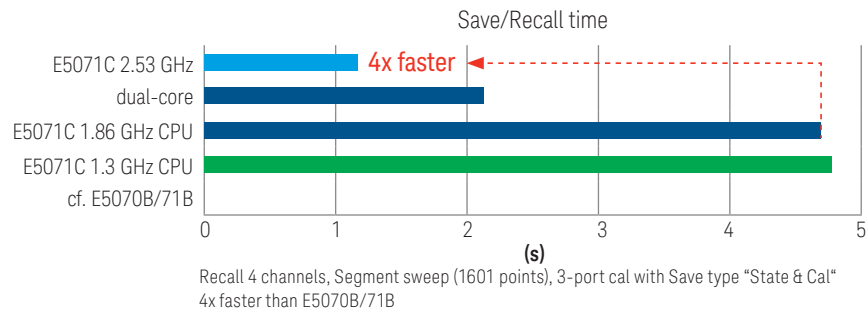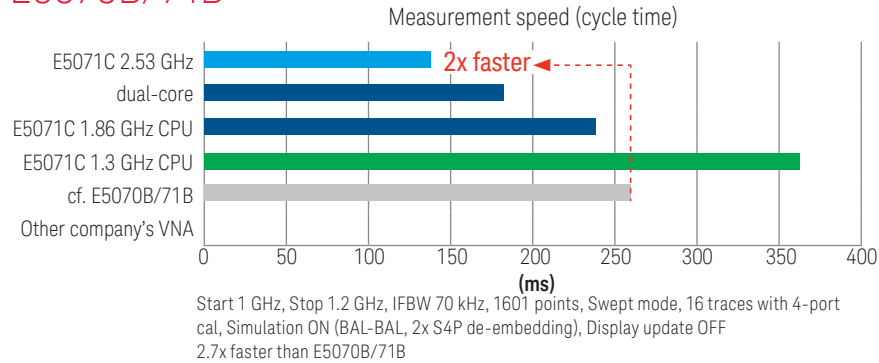
Hardware update:

- CPU: upgraded 1.86 GHz Intel Celeron single-core processor with 2.53 GHz Intel Core i7 dual-core processor
- Storage device: HDD (Hard disk drive) to SSD (Solid state drive)
- Upgrade kits available

1) Compared to E5071C with 1.3 GHz CPU which was shipped before Sep 2011
2) Other conditions: Refer to data sheet table 44

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Keysight E5071C ENA Series Network Analyzer - Hardware Enhancement

Speed comparison vs. previous E5071C and E5070B/71B

Measurement speed (cycle time)

Start 1 GHz, Stop 1.2 GHz, IFBW 70 kHz, 1601 points, Swept mode, 16 traces with 4-port cal, Simulation ON (BAL-BAL, 2x S4P de-embedding), Display update OFF
2.7x faster than E5070B/71B

Save/Recall time

Recall 4 channels, Segment sweep (1601 points), 3-port cal with Save type "State & Cal"
4x faster than E5070B/71B

ECal completion time

Full 4-port cal, Start 300 kHz, Stop 8.5 GHz, IFBW 100 kHz, 1601 points with N4433A ECal
2.6x faster than E5070B/71B

Digital hardware upgrade options

For more details on the option configuration, refer to the configuration guide 5989-5480EN.

Model	Description
E5071CU-038	Spare SSD (Solid State Drive) kit for E5071C S/N MY463xxxxx
E5071CU-041	Upgrade digital HW, from 1.86 GHz CPU to 2.53 GHz with SSD
E5071CU-042	Upgrade digital HW, from 1.3 GHz CPU to 2.53 GHz with SSD

Literature

For additional literature and product information, refer to following literatures.

Literature	Part Number
Brochure	5989-5478EN
Data Sheet	5989-5479EN
Configuration Guide	5989-5480EN

E5071C 1.3 GHz CPU: E5071C with 1.3 GHz Intel Celeron CPU (S/N: MY461xxxxx)
E5071C 1.86 GHz CPU: E5071C with 1.86 GHz Intel Celeron CPU (S/N: MY462xxxxx)
E5071C 2.53G dual-core: E5071C with 2.53 GHz Intel Core i7 dual-core CPU (S/N: MY463xxxxx)
(S/N: Serial Number)

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