

EMRP

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HF-Circuits

Fourth European ANAMET Seminar Special Session "Multiport VNA Measurements"

Wednesday 3rd June 2015 at 09.00 am (CEST)

Venue: Federal Office of Metrology METAS, Lindenweg 50, 3003 Bern-Wabern, Switzerland

Agenda (Draft)		
09:00-09:30	Coffee and registration	
09:30-09:40	Welcome	Markus Zeier, METAS, Switzerland
09:40-10:00	European Research Project 'HF-Circuits' - 'Metrology for New Electrical Measurement Quantities in High-Frequency Circuits': Overview and Update of Activities	Nick Ridler, NPL, UK
10:00-12:20	Morning Session "Multiport VNA Measurements"	
10:00-10:20	Investigation of calibration methods for multiport measurements	Sherko Zinal, PTB, Germany
10:20-10:40	4 port VNA versus 2 port VNA: A comparison of methods for measuring the S parameters of a directional coupler	Martin Salter, NPL, UK
10:40-11:10	Coffee break	
11:10-12:10	Comparison of methods for measurement of Equivalent Source Match comparison of existing 2-port and 3-port methods, analysis of uncertainties, practical aspects, software support	Johannes Hoffmann, Juerg Ruefenacht, Michael Wollensack, METAS, Switzerland
12:10-13:10	Lunch	
13:10-16:00	Afternoon Session	
13:10-14:10	A revised airline ripple method	Faisal Mubarak, VSL, The Netherlands
14:10-14:40	Using uncertainty matrices to analyse measurements of multiple S-parameters	Nick Ridler, NPL, UK
14:40-15:10	Coffee break	
15:10-15:30	Propagation of calibration standards uncertainties through TRL procedure	Djamel Allal, LNE, France
15:30-15:45	Tolerances and losses in rectangular waveguides using time domain and frequency domain solvers – problems and results	Franz-Josef Schmückle, Sinha Siddhartha, FBH, Germany
15:45-16:00	Electromagnetic simulations of rectangular waveguide probes for sub-Terahertz measurements – comparison of different basic configurations	Franz-Josef Schmückle, Sinha Siddhartha, FBH, Germany
16:00-17:00	METAS Laboratory Facilities tour	

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