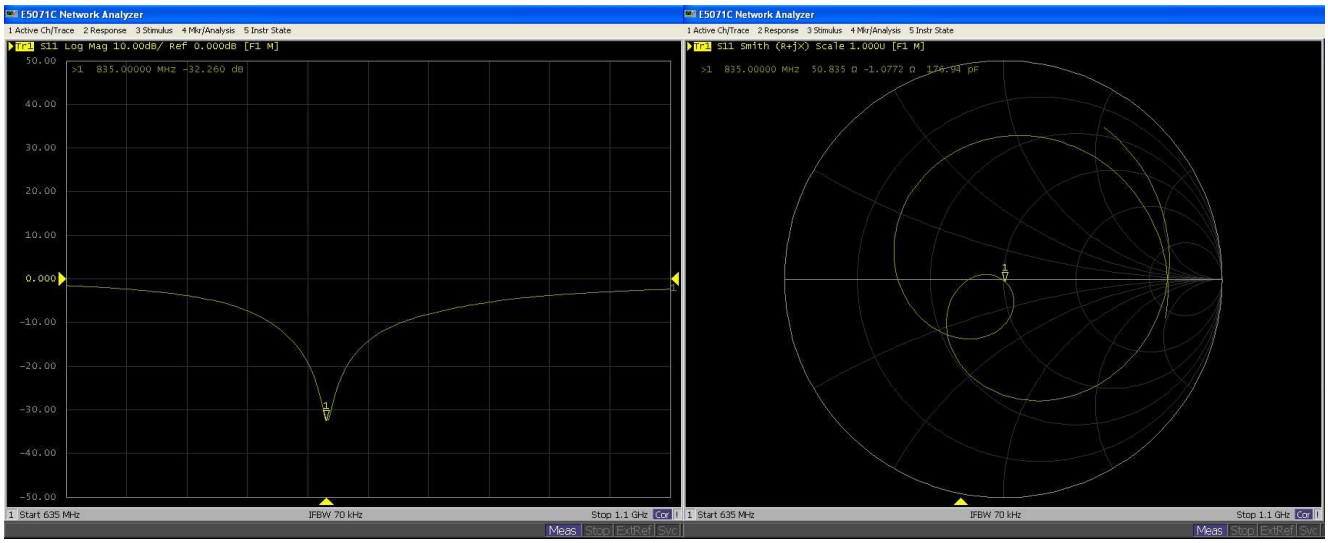
DASY Calibration Certificate -Extended Dipole Calibrations

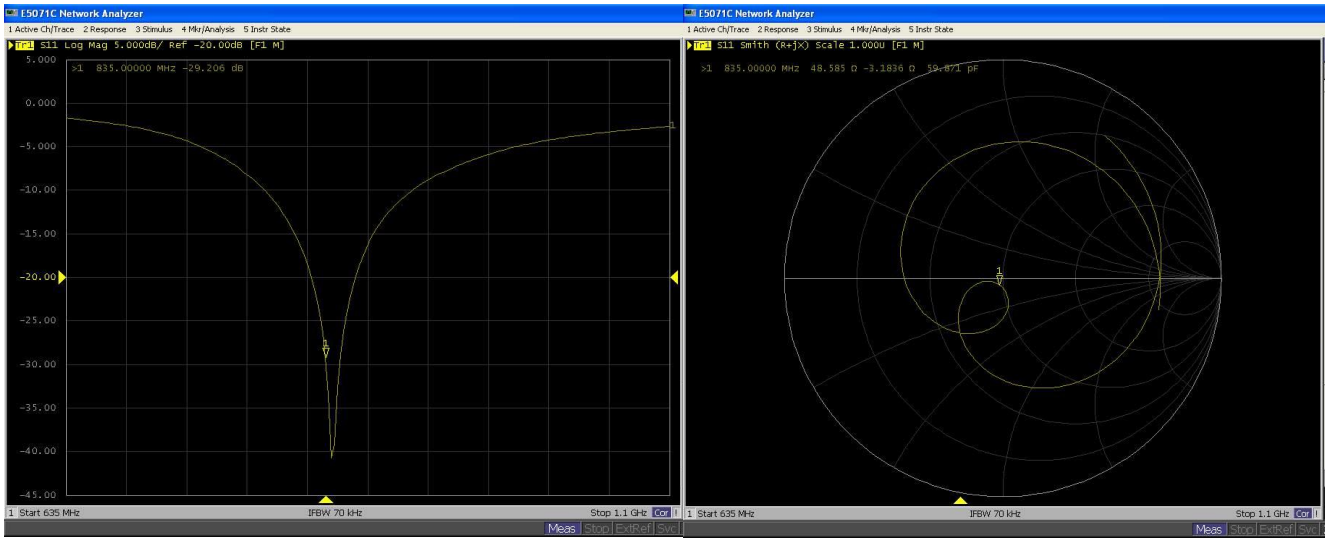
Referring to KDB 450824, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

<Dipole Verification Data> - D835V2, serial no. 4d091

835MHz - Head

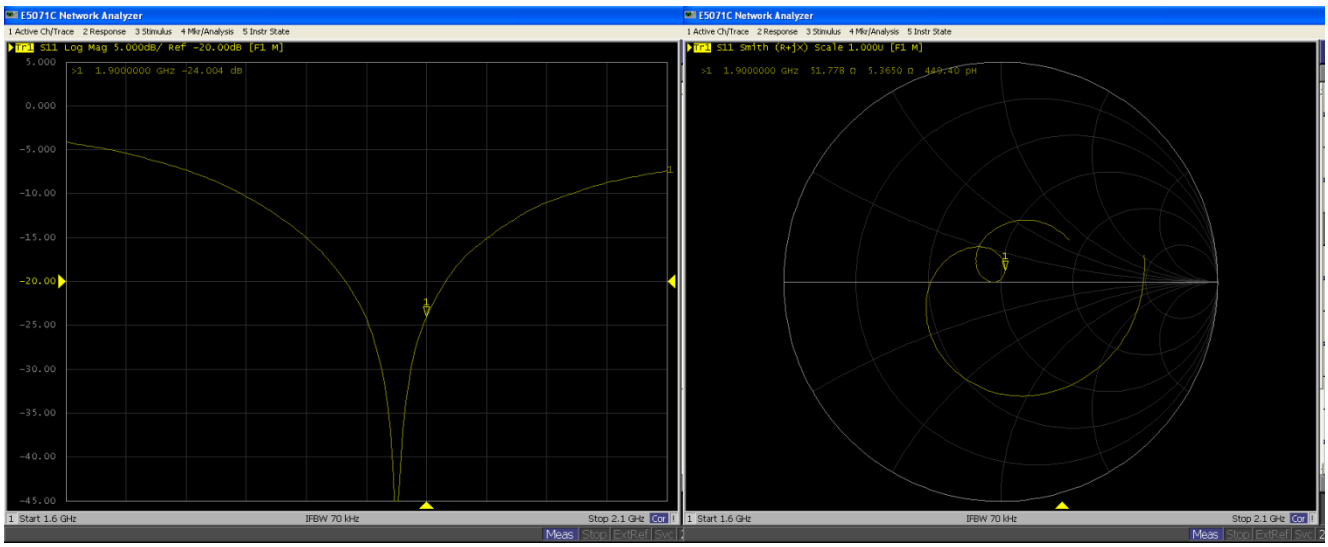


835MHz – Body

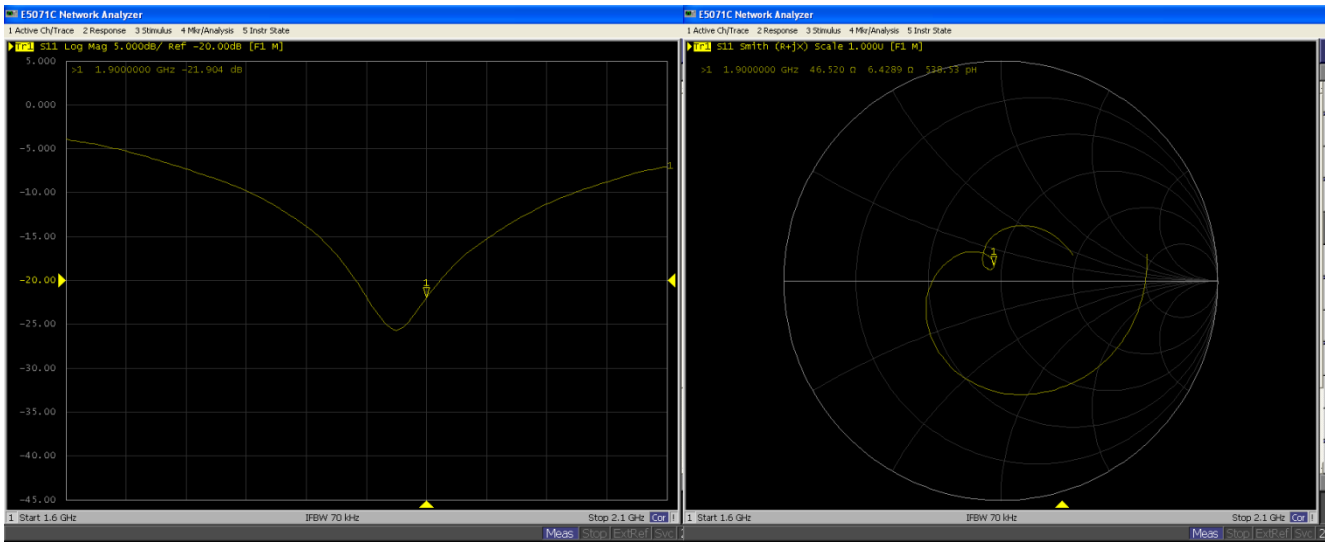


<Dipole Verification Data>- D1900V2, serial no. 5d118

1900MHz – Head

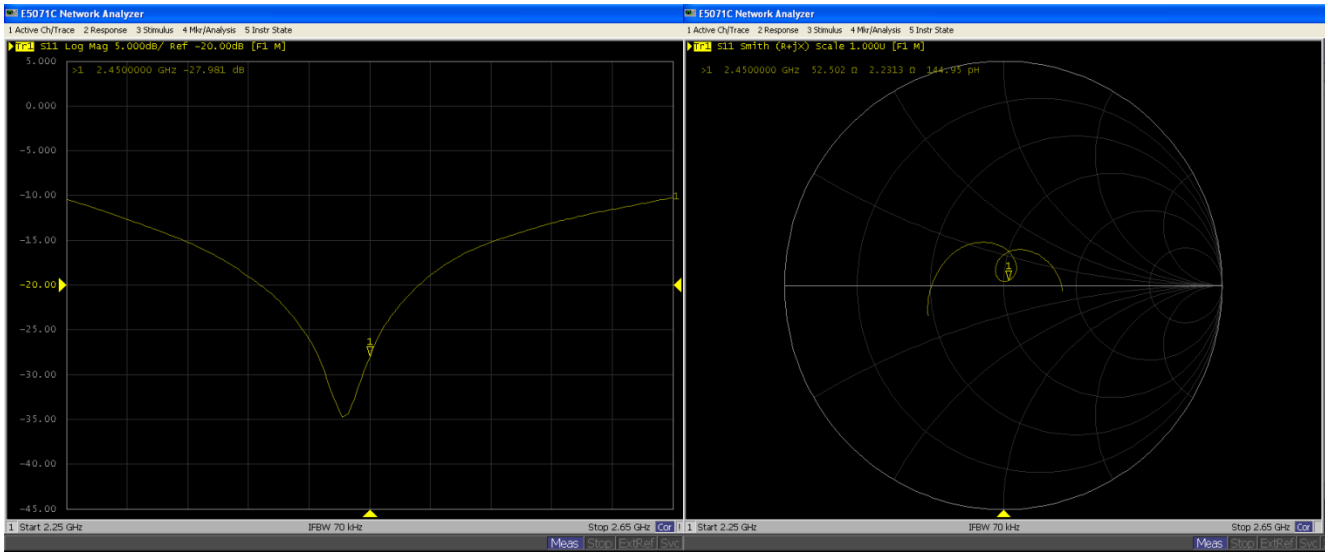


1900MHz - Body

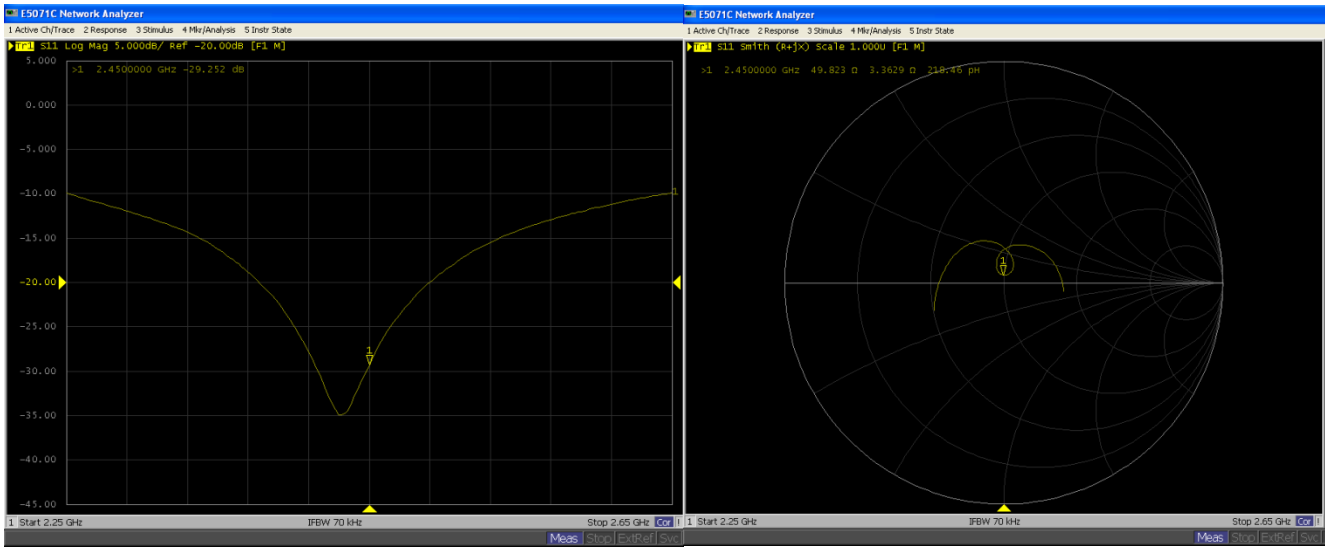


<Dipole Verification Data>- D2450V2, serial no. 840

2450MHz – Head



2450MHz - Body



<Justification of the extended calibration>

D835V2 – serial no. 4d091												
	835 Head						835 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
11.23.2009	-32.254		52.027		-1.4316		-29.251		48.531		-3.0742	
11.22.2010	-32.26	-0.019	50.835	1.192	-1.0772	0. 3544	-29.206	0.154	48.585	0.054	-3.1836	0.1094

D1900V2 – serial no. 5d118												
	1900 Head						1900 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
11.24.2009	-24.147		52.186		5.9629		-21.943		46.826		7.084	
11.23.2010	-24.004	0.592	51.778	0.408	5.365	0.5979	-21.904	0.178	46.52	0.306	6.4289	0.6551

D2450V2 – serial no. 840												
	2450 Head						2450 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
03.18.2010	-27.948		53.658		1.957		-29.13		49.588		3.457	
03.17.2011	-27.981	-0.118	52.502	1.156	2.2313	0.2743	-29.252	-0.419	49.823	0.235	3.3629	0.0941

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration.

Therefore the verification result should support extended calibration.