Standard Definitions (TRL Calibration)
Agilent 8720 Series Using Maury X7005S( ) Software, WR90 (8.2 to 12.4 GHz)

System Z_0: 1.0Ω
Disk File Name: X7005SC
Calibration Kit Label: X7005SC

STANDARD[1]		C0 $x10^{-15}$ F	C1 $x10^{-27}$ F/Hz	C2 $x10^{-36}$ F/Hz^2	C3 $x10^{-45}$ F/Hz^3	FIXED[2] or SLIDING or OFFSET	TERMINAL[3] IMPEDANCE Ω	OFFSET			FREQ (GHz)		COAX or W/G	STND LABEL
NO.	TYPE	L0 $x10^{-12}$ H	L1 $x10^{-24}$ H/Hz	L2 $x10^{-33}$ H/Hz^2	L3 $x10^{-42}$ H/Hz^3			DELAY ps	Z_0[4] Ω	LOSS[5] GΩ/s	MIN[6]	MAX		
1	SHORT					FIXED		0.0	1.0	0.0	6.557	999.0	W/G	X344A
2	SHORT					FIXED		16.111	1.0	0.0	6.557	999.0	W/G	X340B1
3	SHORT					FIXED		48.300	1.0	0.0	6.557	999.0	W/G	X340B3
4	LOAD					FIXED		0.0	1.0	0.0	6.557	999.0	W/G	FIXED[7]
5	LOAD					SLIDING		0.0	1.0	0.0	6.557	999.0	W/G	SLIDING[8]
6	THRU					FIXED		0.0	1.0	0.0	6.557	999.0	W/G	THRU[9]
7														
8														

1 Open, short, load, delay/thru, or arbitrary impedance.
2 Load or arbitrary impedance only.
3 Arbitrary impedance only, device terminating impedance (defaults: short = 0 Ω, open = ∞ Ω, load = 50 Ω).
4 Z_0 normalized.
5 Skin loss factor, normalized at 1 GHz.
6 For waveguide, minimum frequency is same as F_{co}.
7 Model X301A.
8 Model X313 or X314.
9 Test ports connected directly.

Table 5

Standard Class Assignments: Agilent 8720 Series
Maury Software: X7005S( ), WR90 Waveguide, 8.2 to 12.4 GHz
Cal Kit Label: X7005SC
Disk File Name: X7005SC

Class	A	B	C	D	E	F	G	Standard Class Label
$S_{11}A$	2							X340B1
$S_{11}B$	3							X340B3
$S_{11}C$	4	5						LOADS
$S_{22}A$	2							X340B1
$S_{22}B$	3							X340B3
$S_{22}C$	4	5						LOADS
Forward Transmission	6							THRU
Reverse Transmission	6							THRU
Forward Match	6							THRU
Reverse Match	6							THRU
Response	1	6						RESPONSE
Response & Isolation	1	4	6					RESPONSE
TRL Thru								THRU
TRL Reflect								SHORT
TRL Line								SHIM
Adapter								UNDEFINED
TRL Option	Cal Zo: _____ System Zo					_____ Line Zo		
	Set Ref: _____ Thru					_____ Reflect		
	Lowband Frequency: _____							

Table 6

Standard Definitions Agilent PNA Series Using Maury X7005S17 Software, WR90 Waveguide, (8.2 to 12.4 GHz)

DISK FILE NAMES: X7005S sliding.ckt and X7005S fixed.ckt					SYSTEM Z_0: 1.0				CALIBRATION KIT NAME: X7005S Sliding and X7005S Fixed								
STANDARD[a]			C0 $X10^{-15}$ F	C1 $X10^{-27}$ F/Hz	C2 $X10^{-36}$ F/Hz^2	C3 $X10^{-45}$ F/Hz^3	FIXED[b] OR SLIDING OR OFFSET	TERMINAL[c] IMPEDANCE Ω	OFFSET			FREQUENCY (GHz)		COAX OR W/G	STANDARD LABEL
ID NO.	TYPE	DESCRIPTION	L0 $X10^{-12}$ H	L1 $X10^{-24}$ H/Hz	L2 $X10^{-33}$ H/Hz^2	L3 $X10^{-42}$ H/Hz^3			DELAY ps	Z_0 Ω	LOSS[d] GΩ/s	MIN[e]	MAX		
1	SHORT	X344A Fixed Short	0.0	0.0	0.0	0.0			0.0	1.0	0.0	6.557	999.0	W/G	X344A
2	SHORT	X340B1 1/8 Offset Short (0.483cm)	0.0	0.0	0.0	0.0			16.111	1.0	0.0	6.557	999.0	W/G	X340B1
3	SHORT	X340B3 3/8 Offset Short (1.448cm)	0.0	0.0	0.0	0.0			48.300	1.0	0.0	6.557	999.0	W/G	X340B3
9	LOAD	X301( ) Fixed Load					FIXED		0.0	1.0	0.0	6.557	999.0	W/G	FIXED[f]
10	LOAD	X313( ) or X314( ) Sliding Load					SLIDING		0.0	1.0	0.0	6.557	999.0	W/G	SLIDING[h]
11	THRU	Thru (0cm)							0.0	1.0	0.0	6.557	999.0	W/G	THRU[g]

a Open, short, load, delay/thru, or arbitrary impedance.
b Load or arbitrary impedance only.
c Arbitrary impedance only, device terminating impedance (defaults: short = 0 Ω, open = ∞ Ω, load = 50 Ω).
d Skin loss factor, normalized at 1 GHz.
e For waveguide, minimum frequency is same as F_{co}.
f Fixed terminations, model X301( ) series.
g Test ports connected directly.
h Sliding terminations, model X313( ) or X314( ) series.

Table 7. PNA Series Standard Definitions