Table 3 (Without Knowledge of faults)

Number of TSVs, Number of redundant TSVs, Resolution constraint	Expected number of tested sessions Defect clustering coefficient α = 1		
	Sessions for SOS3	Sessions for HCD	Reduction over SOS3 in %
TSV yield=99.5%			
(8,1,2)	4	2.09	47.75
(8,2,3)	4	3.01	24.75
(11,1,2)	6	2.24	62.66
(11,2,3)	4.1	3.07	25.12
(15,2,2)	8.1	2.47	69.50
(15,3,3)	6.1	3.17	48.03
(16,3,4)	5.2	4.02	22.69
(16,4,4)	4.3	4.02	6.51
(20,3,4)	6.3	4.12	34.60
(20,4,4)	6.3	4.12	34.60
TSV yield=98.0%			
(8,1,2)	4.3	2.39	44.41
(8,2,3)	4.2	3.06	27.14
(11,1,2)	6.4	2.93	54.21
(11,2,3)	4.6	3.29	28.47
(15,2,2)	8.7	3.74	57.01
(15,3,3)	6.9	3.63	47.39
(16,3,4)	6.1	4.08	33.11
(16,4,4)	5.4	4.08	24.44
(20,3,4)	7.5	4.42	41.06
(20,4,4)	7.8	4.42	43.33

Table 3 (With Knowledge of faults)

Number of TSVs, Number of redundant TSVs, Resolution constraint	Expected number of tested sessions Defect clustering coefficient α = 1		
	Sessions for SOS3	Sessions for HCD	Reduction over SOS3 in %
TSV yield=99.5%			
(8,1,2)	4	2.03	49.25
(8,2,3)	4	2.96	26.00
(11,1,2)	6	2.07	65.5
(11,2,3)	4.1	2.97	27.56
(15,2,2)	8.1	2.18	73.08
(15,3,3)	6.1	3.01	50.65
(16,3,4)	5.2	3.89	25.19
(16,4,4)	4.3	3.89	9.53
(20,3,4)	6.3	3.91	37.93
(20,4,4)	6.3	3.91	37.93
TSV yield=98.0%			
(8,1,2)	4.3	2.12	50.69
(8,2,3)	4.2	2.86	31.90
(11,1,2)	6.4	2.29	64.21
(11,2,3)	4.6	2.91	36.73
(15,2,2)	8.7	2.65	69.54
(15,3,3)	6.9	3.05	55.79
(16,3,4)	6.1	3.62	40.65
(16,4,4)	5.4	3.62	32.96
(20,3,4)	7.5	3.70	50.66
(20,4,4)	7.8	3.70	52.56
	Sessions for SOS3	Sessions for HCD	Reduction over SOS3 in %