

## 附表 1：共整合檢定結果

第一階段樣本期間：

(附表 1-1)模型一:  $E/GDP=f(GDP/POP)$ ，共整合數目檢定，落後期=4

test assumption：with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.066414	13.96490	15.41	20.04	$r = 0$	7.628143	14.07	18.63	$r = 0$
0.055489	6.336752	3.76	6.65	$r = 1^{**}$	6.336752	3.76	6.65	$r = 1^{**}$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-2)模型一:  $E/GDP=f(GDP/POP)$ ，共整合數目檢定，落後期=4

test assumption：no trend

特徵根	$\lambda$ trace	5%	1%	H0
0.114600	20.11471	15.41	20.20	$r = 0$
0.057763	6.604321	3.76	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-3)模型二:  $E/GDP=f(GDP)$ ，共整合數目檢定，落後期=4

test assumption：with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.076185	15.02888	15.41	20.04	$r = 0$	8.796007	14.07	18.63	$r = 0$
0.054605	6.232878	3.76	6.65	$r = 1^{**}$	6.232878	3.76	6.65	$r = 1^{**}$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-4)模型二:  $E/GDP=f(GDP)$ ，共整合數目檢定，落後期=4

test assumption：no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.118151	20.85522	19.96	24.60	$r = 0^{**}$	13.95649	15.67	20.20	$r = 0$
0.060259	6.898726	9.24	12.97	$r = 1$	6.898726	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-5)模型三:  $GC/GDP=f(GDP/POP)$  , 共整合數目檢定, 落後期=7

test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.079224	12.72530	15.41	20.04	$r = 0$	8.914138	14.07	18.63	$r = 0$
0.034673	3.811164	3.76	6.65	$r = 1^{**}$	3.811164	3.76	6.65	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-6)模型三:  $GC/GDP=f(GDP/POP)$  , 共整合數目檢定, 落後期=7

test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.111962	21.72269	19.96	24.60	$r = 0^{**}$	12.82398	15.67	20.20	$r = 0$
0.079092	8.898707	9.24	12.97	$r = 1$	8.898707	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-7)模型四:  $GC/GDP=f(GDP)$  , 共整合數目檢定, 落後期=7

test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.081718	13.60116	15.41	20.04	$r = 0$	9.207050	14.07	18.63	$r = 0$
0.039870	4.394106	3.76	6.65	$r = 1^{**}$	4.394106	3.76	6.65	$r = 1^{**}$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-8)模型四:  $GC/GDP=f(GDP)$  , 共整合數目檢定, 落後期=7

test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.110966	21.90934	19.96	24.60	$r = 0^{**}$	12.70297	15.67	20.20	$r = 0$
0.081712	9.206370	9.24	12.97	$r = 1$	9.206370	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-9)模型五:  $GI/GDP=f(GDP/POP)$  , 共整合數目檢定, 落後期=8

test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.111659	15.58675	15.41	20.04	$r = 0^{**}$	12.66878	14.07	18.63	$r = 0$
0.026902	2.917971	3.76	6.65	$r = 1$	2.917971	3.76	6.65	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-10)模型五:  $GI/GDP=f(GDP/POP)$  , 共整合數目檢定 , 落後期=8

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.147889	20.34739	19.96	24.60	$r = 0^{**}$	17.12407	15.67	20.20	$r = 0^{**}$
0.029675	3.223311	9.24	12.97	$r = 1$	3.223311	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-11)模型六:  $GI/GDP=f(GDP)$  , 共整合數目檢定 , 落後期=8

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.118121	16.71890	15.41	20.04	$r = 0^{**}$	13.44989	14.07	18.63	$r = 0$
0.030089	3.269006	3.76	6.65	$r = 1$	3.269006	3.76	6.65	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-12)模型六:  $GI/GDP=f(GDP)$  , 共整合數目檢定 , 落後期=8

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.152713	21.23277	19.96	24.60	$r = 0^{**}$	17.73160	15.67	20.20	$r = 0^{**}$
0.032192	3.501167	9.24	12.97	$r = 1$	3.501167	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-13)模型七:  $T/GDP=f(GDP/POP)$  , 共整合數目檢定 , 落後期=6

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.074388	14.59909	15.41	20.04	$r = 0$	8.425672	14.07	18.63	$r = 0$
0.055063	6.173420	3.76	6.65	$r = 1^{**}$	6.173420	3.76	6.65	$r = 1^{**}$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-14)模型七:  $T/GDP=f(GDP/POP)$  , 共整合數目檢定 , 落後期=6

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.137703	24.51668	19.96	24.60	$r = 0^{**}$	16.14895	15.67	20.20	$r = 0^{**}$
0.073895	8.367730	9.24	12.97	$r = 1$	8.367730	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-15)模型八:  $T/GDP=f(GDP)$  , 共整合數目檢定 , 落後期=5

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.094031	17.84757	15.41	20.04	$r = 0^{**}$	9.068435	14.07	18.63	$r = 0$
0.061527	6.985100	3.76	6.65	$r = 1^*$	6.931536	3.76	6.65	$r = 1^*$

\*表示在 1%顯著水準下拒絕虛無假設

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-16)模型八:  $T/GDP=f(GDP)$  , 共整合數目檢定 , 落後期=5

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.203457	32.05639	19.96	24.60	$r = 0^*$	25.02219	15.67	20.20	$r = 0^*$
0.061946	7.034204	9.24	12.97	$r = 1$	7.034204	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-17)模型九:  $RE/RGDP=f(RGDP/POP)$  , 共整合數目檢定 , 落後期=8

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.010817	1.635179	15.41	20.04	$r = 0$	1.163735	14.07	18.63	$r = 0$
0.004396	0.471444	3.76	6.65	$r = 1$	0.471444	3.76	6.65	$r = 1$

(附表 1-18)模型九:  $RE/RGDP=f(RGDP/POP)$  , 共整合數目檢定 , 落後期=8

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.050050	5.965559	19.96	24.60	$r = 0$	5.494012	15.67	20.20	$r = 0$
0.004397	0.471547	9.24	12.97	$r = 1$	0.471547	9.24	12.97	$r = 1$

(附表 1-19)模型十:  $RE/RGDP=f(RGDP)$  , 共整合數目檢定 , 落後期=8

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.036762	4.438568	15.41	20.04	$r = 0$	4.007627	14.07	18.63	$r = 0$
0.004019	0.430941	3.76	6.65	$r = 1$	.430941	3.76	6.65	$r = 1$

(附表 1-20)模型十: RE/RGDP=f(RGDP), 共整合數目檢定, 落後期=8

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.081918	9.581578	19.96	24.60	r = 0	9.145141	15.67	20.20	r = 0
0.004071	0.436437	9.24	12.97	r = 1	0.436437	9.24	12.97	r = 1

(附表 1-21)模型十一: RGC/RGDP=f(RGDP/POP), 共整合數目檢定, 落後期=8

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.062103	8.090075	15.41	20.04	r = 0	6.860302	14.07	18.63	r = 0
0.011427	1.229773	3.76	6.65	r = 1	1.229773	3.76	6.65	r = 1

(附表 1-22)模型十一: RGC/RGDP=f(RGDP/POP), 共整合數目檢定, 落後期=8

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.073190	10.33856	19.96	24.60	r = 0	8.132723	15.67	20.20	r = 0
0.020404	2.205833	9.24	12.97	r = 1	2.205833	9.24	12.97	r = 1

(附表 1-23)模型十二: RGC/RGDP=f(RGDP), 共整合數目檢定, 落後期=8

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.064016	10.97988	15.41	20.04	r = 0	7.078749	14.07	18.63	r = 0
0.035802	3.901126	3.76	6.65	r = 1	3.901126	3.76	6.65	r = 1

(附表 1-24)模型十二: RGC/RGDP=f(RGDP), 共整合數目檢定, 落後期=8

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.077840	13.91903	19.96	24.60	r = 0	8.670947	15.67	20.20	r = 0
0.047864	5.248083	9.24	12.97	r = 1	5.248083	9.24	12.97	r = 1

(附表 1-25)模型十三:  $RGI/RGDP=f(RGDP/POP)$ , 共整合數目檢定, 落後期=8  
test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.060000	7.732595	15.41	20.04	r = 0	6.620616	14.07	18.63	r = 0
0.010339	1.111979	3.76	6.65	r = 1	1.111979	3.76	6.65	r = 1

(附表 1-26)模型十三:  $RGI/RGDP=f(RGDP/POP)$ , 共整合數目檢定, 落後期=8  
test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.062863	9.827878	19.96	24.60	r = 0	6.947008	15.67	20.20	r = 0
0.026565	2.880870	9.24	12.97	r = 1	2.880870	9.24	12.97	r = 1

(附表 1-27)模型十四:  $RGI/RGDP=f(RGDP)$ , 共整合數目檢定, 落後期=8  
test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.057782	9.616539	15.41	20.04	r = 0	6.368477	14.07	18.63	r = 0
0.029900	3.248061	3.76	6.65	r = 1	3.248061	3.76	6.65	r = 1

(附表 1-28)模型十四:  $RGI/RGDP=f(RGDP)$ , 共整合數目檢定, 落後期=8  
test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.066050	12.04468	19.96	24.60	r = 0	7.311597	15.67	20.20	r = 0
0.043270	4.733085	9.24	12.97	r = 1	4.733085	9.24	12.97	r = 1

(附表 1-29)模型十五:  $RT/RGDP=f(RGDP/POP)$ , 共整合數目檢定, 落後期=8  
test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.051134	6.181581	15.41	20.04	r = 0	5.616206	14.07	18.63	r = 0
0.005270	0.565375	3.76	6.65	r = 1	0.565375	3.76	6.65	r = 1

(附表 1-30)模型十五:  $RT/RGDP=f(RGDP/POP)$  , 共整合數目檢定 , 落後期=8

test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.078892	10.79190	19.96	24.60	r = 0	8.793085	15.67	20.20	r = 0
0.018507	1.998812	9.24	12.97	r = 1	1.998812	9.24	12.97	r = 1

(附表 1-31)模型十六:  $RT/RGDP=f(RGDP)$  , 共整合數目檢定 , 落後期=8

test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.070178	8.939098	15.41	20.04	R = 0	7.785583	14.07	18.63	r = 0
0.010723	1.153515	3.76	6.65	R = 1	1.153515	3.76	6.65	r = 1

(附表 1-32)模型十六:  $RT/RGDP=f(RGDP)$  , 共整合數目檢定 , 落後期=8

test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.104862	13.85700	19.96	24.60	R = 0	11.85315	15.67	20.20	r = 0
0.018553	2.003850	9.24	12.97	R = 1	2.003850	9.24	12.97	r = 1

第二階段共整合結果：

(附表 1-33)模型一:  $E/GDP=f(GDP/POP)$ ，共整合數目檢定，落後期=4

test assumption：with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.518706	24.02193	15.41	20.04	$r = 0^*$	19.74447	14.07	18.63	$r = 0^{**}$
0.146512	4.277458	3.76	6.65	$r = 1^{**}$	4.277458	3.76	6.65	$r = 1^{**}$

\*表示在 1%顯著水準下拒絕虛無假設

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-34)模型一:  $E/GDP=f(GDP/POP)$ ，共整合數目檢定，落後期=4

test assumption：no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.536591	25.27237	19.96	24.60	$r = 0^*$	20.76693	15.67	20.20	$r = 0^*$
0.153689	4.505441	9.24	12.97	$r = 1$	4.505441	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-35)模型二:  $E/GDP=f(GDP)$ ，共整合數目檢定，落後期=4

test assumption：with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.510104	24.32846	15.41	20.04	$r = 0^*$	19.26617	14.07	18.63	$r = 0^*$
0.170965	5.062296	3.76	6.65	$r = 1^{**}$	5.062296	3.76	6.65	$r = 1^{**}$

\*表示在 1%顯著水準下拒絕虛無假設

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-36)模型二:  $E/GDP=f(GDP)$ ，共整合數目檢定，落後期=4

test assumption：no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.530820	25.73393	19.96	24.60	$r = 0^*$	20.43274	15.67	20.20	$r = 0^*$
0.178267	5.301189	9.24	12.97	$r = 1$	5.301189	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設



(附表 1-37)模型三:  $GC/GDP=f(GDP/POP)$ , 共整合數目檢定, 落後期=4

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.378575	21.70194	15.41	20.04	$r = 0^*$	12.84497	14.07	18.63	$r = 0^*$
0.279663	8.856972	3.76	6.65	$r = 1^*$	8.856972	3.76	6.65	$r = 1^*$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-38)模型三:  $GC/GDP=f(GDP/POP)$ , 共整合數目檢定, 落後期=4

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.438213	24.62368	19.96	24.60	$r = 0^*$	15.56909	15.67	20.20	$r = 0^*$
0.284916	9.054585	9.24	12.97	$r = 1$	9.054585	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-39)模型四:  $GC/GDP=f(GDP)$ , 共整合數目檢定, 落後期=4

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.379849	21.65076	15.41	20.04	$r = 0^*$	12.90037	14.07	18.63	$r = 0$
0.276814	8.750386	3.76	6.65	$r = 1^*$	8.750386	3.76	6.65	$r = 1^*$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-40)模型四:  $GC/GDP=f(GDP)$ , 共整合數目檢定, 落後期=4

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.439822	24.78728	19.96	24.60	$r = 0^*$	15.64654	15.67	20.20	$r = 0$
0.287194	9.140738	9.24	12.97	$r = 1$	9.140738	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-41)模型五:  $GI/GDP=f(GDP/POP)$  , 共整合數目檢定 , 落後期=3

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.306287	10.42797	15.41	20.04	r = 0	10.23951	14.07	18.63	r = 0
0.006708	0.188461	3.76	6.65	r = 1	0.188461	3.76	6.65	r = 1

(附表 1-42)模型五:  $GI/GDP=f(GDP/POP)$  , 共整合數目檢定 , 落後期=3

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.329622	14.45982	19.96	24.60	r = 0	11.19759	15.67	20.20	r = 0
0.109977	3.262226	9.24	12.97	r = 1	3.262226	9.24	12.97	r = 1

(附表 1-43)模型六:  $GI/GDP=f(GDP)$  , 共整合數目檢定 , 落後期=3

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.313916	10.86979	15.41	20.04	r = 0	10.54917	14.07	18.63	r = 0
0.011386	0.320624	3.76	6.65	r = 1	0.320624	3.76	6.65	r = 1

(附表 1-44)模型六:  $GI/GDP=f(GDP)$  , 共整合數目檢定 , 落後期=3

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.335601	14.82367	19.96	24.60	r = 0	11.44843	15.67	20.20	r = 0
0.113562	3.375240	9.24	12.97	r = 1	3.375240	9.24	12.97	r = 1

(附表 1-45)模型七:  $T/GDP=f(GDP/POP)$  , 共整合數目檢定 , 落後期=4

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.418506	21.44930	15.41	20.04	r = 0*	14.63816	14.07	18.63	r = 0**
0.222961	6.811145	3.76	6.65	r = 1*	6.811145	3.76	6.65	r = 1*

\*表示在 1%顯著水準下拒絕虛無假設

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-46)模型七:  $T/GDP=f(GDP/POP)$ , 共整合數目檢定, 落後期=4

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.427945	23.21786	19.96	24.60	$r = 0^{**}$	15.08005	15.67	20.20	$r = 0$
0.260218	8.137807	9.24	12.97	$r = 1$	8.137807	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-47)模型八:  $T/GDP=f(GDP)$ , 共整合數目檢定, 落後期=4

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.438875	22.53195	15.41	20.04	$r = 0^*$	15.60091	14.07	18.63	$r = 0^{**}$
0.226404	6.931032	3.76	6.65	$r = 1^*$	6.931032	3.76	6.65	$r = 1^*$

\*表示在 1%顯著水準下拒絕虛無假設

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-48)模型八:  $T/GDP=f(GDP)$ , 共整合數目檢定, 落後期=4

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.448699	24.47125	19.96	24.60	$r = 0^{**}$	16.07780	15.67	20.20	$r = 0^{**}$
0.267190	8.393450	9.24	12.97	$r = 1$	8.393450	9.24	12.97	$r = 1$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-49)模型九:  $RE/RGDP=f(RGDP/POP)$ , 共整合數目檢定, 落後期=4

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.401725	18.09773	15.41	20.04	$r = 0^{**}$	13.87001	14.07	18.63	$r = 0$
0.144939	4.227717	3.76	6.65	$r = 1^{**}$	4.227717	3.76	6.65	$r = 1^{**}$

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-50)模型九: RE/RGDP=f(RGDP/POP), 共整合數目檢定, 落後期=4

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.615857	30.80628	19.96	24.60	r = 0*	25.83202	15.67	20.20	r = 0*
0.168257	4.974263	9.24	12.97	r = 1	4.974263	9.24	12.97	r = 1

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-51)模型十: RE/RGDP=f(RGDP), 共整合數目檢定, 落後期=4

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.424759	20.39154	15.41	20.04	r = 0*	14.93007	14.07	18.63	r = 0**
0.183131	5.461469	3.76	6.65	r = 1**	5.461469	3.76	6.65	r = 1**

\*表示在 1%顯著水準下拒絕虛無假設

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-52)模型十: RE/RGDP=f(RGDP), 共整合數目檢定, 落後期=4

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.627623	33.04714	19.96	24.60	r = 0*	26.67192	15.67	20.20	r = 0*
0.210313	6.375217	9.24	12.97	r = 1	6.375217	9.24	12.97	r = 1

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-53)模型十一: RGC/RGDP=f(RGDP/POP), 共整合數目檢定, 落後期=2

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.310515	11.67575	15.41	20.04	r = 0	10.78251	14.07	18.63	r = 0
0.030332	0.893242	3.76	6.65	r = 1	0.893242	3.76	6.65	r = 1

(附表 1-54)模型十一:  $RGC/RGDP=f(RGDP/POP)$ , 共整合數目檢定, 落後期=2

test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.603318	27.98605	19.96	24.60	$r = 0^*$	26.81399	15.67	20.20	$r = 0^*$
0.039610	1.172057	9.24	12.97	$r = 1$	1.172057	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-55)模型十二:  $RGC/RGDP=f(RGDP)$ , 共整合數目檢定, 落後期=2

test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.310685	11.90748	15.41	20.04	$r = 0$	10.78966	14.07	18.63	$r = 0$
0.037812	1.117822	3.76	6.65	$r = 1$	1.117822	3.76	6.65	$r = 1$

(附表 1-56)模型十二:  $RGC/RGDP=f(RGDP)$ , 共整合數目檢定, 落後期=2

test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.603714	28.54833	19.96	24.60	$r = 0^*$	26.84292	15.67	20.20	$r = 0^*$
0.057111	1.705405	9.24	12.97	$r = 1$	1.705405	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-57)模型十三:  $RGI/RGDP=f(RGDP/POP)$ , 共整合數目檢定, 落後期=3

test assumption : with trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.193845	6.164094	15.41	20.04	$r = 0$	6.033418	14.07	18.63	$r = 0$
0.004656	0.130676	3.76	6.65	$r = 1$	0.130676	3.76	6.65	$r = 1$

(附表 1-58)模型十三:  $RGI/RGDP=f(RGDP/POP)$ , 共整合數目檢定, 落後期=3

test assumption : no trend

特徵根	$\lambda_{trace}$	5%	1%	H0	$\lambda_{max}$	5%	1%	H0
0.425841	18.65834	19.96	24.60	$r = 0$	15.53576	15.67	20.20	$r = 0$
0.105527	3.122587	9.24	12.97	$r = 1$	3.122587	9.24	12.97	$r = 1$

(附表 1-59)模型十四:  $RGI/RGDP=f(RGDP)$  , 共整合數目檢定 , 落後期=3

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.204338	6.433947	15.41	20.04	r = 0	6.400254	14.07	18.63	r = 0
0.001203	0.033693	3.76	6.65	r = 1	0.033693	3.76	6.65	r = 1

(附表 1-60)模型十四:  $RGI/RGDP=f(RGDP)$  , 共整合數目檢定 , 落後期=3

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.439049	19.00158	19.96	24.60	r = 0	16.18742	15.67	20.20	r = 0**
0.095620	2.814163	9.24	12.97	r = 1	2.814163	9.24	12.97	r = 1

\*\*表示在 5%顯著水準下拒絕虛無假設

(附表 1-61)模型十五:  $RT/RGDP=f(RGDP/POP)$  , 共整合數目檢定 , 落後期=1

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.485071	21.08464	15.41	20.04	r = 0*	19.91181	14.07	18.63	r = 0*
0.038340	1.172826	3.76	6.65	r = 1	1.172826	3.76	6.65	r = 1

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-62)模型十五:  $RT/RGDP=f(RGDP/POP)$  , 共整合數目檢定 , 落後期=1

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.533607	27.42743	19.96	24.60	r = 0*	22.88183	15.67	20.20	r = 0*
0.140600	4.545607	9.24	12.97	r = 1	4.545607	9.24	12.97	r = 1

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-63)模型十六:  $RT/RGDP=f(RGDP)$  , 共整合數目檢定 , 落後期=1

test assumption : with trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.492037	21.57847	15.41	20.04	$r = 0^*$	20.32037	14.07	18.63	$r = 0^*$
0.041069	1.258093	3.76	6.65	$r = 1$	1.258093	3.76	6.65	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設

(附表 1-64)模型十六:  $RT/RGDP=f(RGDP)$  , 共整合數目檢定 , 落後期=1

test assumption : no trend

特徵根	$\lambda$ trace	5%	1%	H0	$\lambda$ max	5%	1%	H0
0.542910	28.29892	19.96	24.60	$r = 0^*$	23.48626	15.67	20.20	$r = 0^*$
0.148216	4.812659	9.24	12.97	$r = 1$	4.812659	9.24	12.97	$r = 1$

\*表示在 1%顯著水準下拒絕虛無假設