

ภาคผนวก จ

ผลการวิเคราะห์ข้อมูล

ด้วยโปรแกรม LISREL 8.52

มหาวิทยาลัยราชภัฏวไลยอลงกรณ์

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

แสดงผลการวิเคราะห์ข้อมูล ด้านการวิเคราะห์เนื้อหา

The following lines were read from file D:\COA\COA.LPJ:

```

TI COA
!DA NI=34 NO=355 NG=1 MA=CM
SY='D:\COA\COA.dsf' NG=1
SE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 /
MO NX=34 NK=4 LX=FU,FI PH=SY,FR TD=SY,FI
LK
DIS DIF KEY SUM
FR LX(1,1) LX(2,1) LX(3,1) LX(4,1) LX(5,1) LX(6,1) LX(7,1)
LX(8,1) LX(9,1)
FR LX(10,1) LX(11,1) LX(12,2) LX(13,2) LX(14,2) LX(15,2) LX(16,2)
LX(17,3) LX(18,3)
FR LX(19,3) LX(20,3) LX(21,3) LX(22,3) LX(23,3) LX(24,3) LX(25,4)
LX(26,4) LX(27,4)
FR LX(28,4) LX(29,4) LX(30,4) LX(31,4) LX(32,4) LX(33,4) LX(34,4)
FR TD 1 1 TD 2 2 TD 3 3 TD 4 4 TD 5 5 TD 6 6 TD 7 7 TD 8 8 TD 9
9 TD 10 10
FR TD 11 11 TD 12 12 TD 13 13 TD 14 14 TD 15 15 TD 16 16 TD 17 17
TD 18 18
FR TD 19 19 TD 20 20 TD 21 21 TD 22 22 TD 23 23 TD 24 24 TD 25 25
TD 26 26
FR TD 27 27 TD 28 28 TD 29 29 TD 30 30 TD 31 31 TD 32 32 TD 33 33
TD 34 34
FR TD 23 22 TD 34 33 TD 26 25 TD 12 10 TD 1 2 TD 2 5 TD 9 11 TD
21 22 TD 23 21
FR TD 1 4 TD 27 28 TD 5 7 TD 1 5 TD 1 3 TD 2 3 TD 9 10 TD 3 4 TD
7 29 TD 23 24
FR TD 22 24 TD 25 27 TD 21 24 TD 3 18 TD 13 14 TD 11 17 TD 24 33
TD 5 13 TD 4 15
FR TD 19 30 TD 9 12 TD 11 12 TD 10 11 TD 2 4 TD 14 30 TD 11 24 TD
15 24 TD 16 19
FR TD 10 15 TD 12 32 TD 17 19 TD 21 29 TD 10 14 TD 10 27 TD 14 28
TD 13 32
FR TD 7 12 TD 20 29 TD 2 33 TD 10 25 TD 8 26 TD 21 34 TD 15 23 TD
14 32 TD 16 34
FR TD 8 9 TD 17 18 TD 18 19 TD 2 24 TD 20 24 TD 5 6 TD 3 6 TD 4 6
TD 18 20 TD 19 20
FR TD 20 17 TD 2 6 TD 7 13 TD 1 31 TD 5 31 TD 3 12 TD 2 14 TD 2 8
TD 8 11 TD 5 8
FR TD 7 19 TD 24 26 TD 25 24 TD 13 33 TD 6 8 TD 6 7 TD 1 6 TD 11
27 TD 2 11
FR TD 1 22 TD 4 22 TD 5 33 TD 15 18 TD 16 18 TD 10 23 TD 8 32 TD
4 33 TD 4 9
FR TD 5 9 TD 5 17 TD 1 17 TD 10 13 TD 15 17 TD 19 26 TD 6 30 TD
12 30 TD 5 29
FR TD 10 26 TD 14 27 TD 20 21 TD 11 30 TD 30 33 TD 19 33 TD 2 27
TD 2 28 TD 3 27
FR TD 25 28 TD 11 29 TD 11 20 TD 6 13 TD 8 20 TD 22 31 TD 6 24 TD
6 33 TD 4 10
FR TD 9 17 TD 5 28 TD 3 13 TD 10 16 TD 12 25 TD 12 17 TD 5 27 TD
14 31 TD 8 33

```

FR TD 8 34 TD 6 19 TD 12 16 TD 15 26 TD 15 25 TD 11 33 TD 27 31 TD
 20 27 TD 26 28
 FR TD 28 29 TD 17 33 TD 13 28 TD 4 16 TD 1 16 TD 3 16 TD 6 27 TD 4
 25
 PD
 OU ME=ML AM RS EF FS SS SC IT=250
 TI COA

น้ำหนักขององค์ประกอบ b(SE)

TI COA

Number of Iterations = 28

LISREL Estimates (Maximum Likelihood)

	LAMBDA-X	DIS	DIF	KEY	SUM
		-----	-----	-----	-----
A1	0.47 (0.03)		--	--	--
15.48					
(0.04)	A2	0.47	--	--	--
		12.36			
	A3	0.48 (0.04)	--	--	--
		12.67			
(0.04)	A4	0.52	--	--	--
		14.01			
(0.04)	A5	0.43	--	--	--
		10.90			
(0.04)	A6	0.48	--	--	--
		12.46			
	A7	0.51 (0.04)	--	--	--
		13.71			
	A8	0.53 (0.04)	--	--	--
		14.08			
	A9	0.36 (0.04)	--	--	--
		9.77			
	A10	0.43 (0.04)	--	--	--
		11.34			
	A11	0.42 (0.04)	--	--	--
		11.24			
	A12	--	0.39 (0.04)	--	--
		9.96			
	A13	--	0.51 (0.04)	--	--
		12.58			

	A14	--	0.56 (0.04) 14.92	--	--
	A15	--	0.57 (0.04) 14.97	--	--
	A16	--	0.60 (0.04) 16.02	--	--
	A17	--	--	0.53 (0.04) 12.36	--
	A18	--	--	0.52 (0.04) 11.66	--
	A19	--	--	0.54 (0.04) 12.75	--
	A20	--	--	0.51 (0.04) 11.86	--
	A21	--	--	0.41 (0.04) 10.76	--
	A22	--	--	0.42 (0.04)	--
10.98	A23	--	--	0.37 (0.04) 10.60	--
	A24	--	--	0.38 (0.04) 10.46	--
	A25	--	--	--	0.38 (0.04) 10.58
	A26	--	--	--	0.38 (0.04)
10.24	A27	--	--	--	0.45 (0.03)
14.03	A28	--	--	--	0.40 (0.04) 11.42
	A29	--	--	--	0.49 (0.03) 14.36
	A30	--	--	--	0.50 (0.03) 14.69
	A31	--	--	--	0.52 (0.03) 15.79
(0.03)	A32	--	--	--	-0.51

14.80

A33	- -	- -	- -0.37 (0.04)
A34	- -	- -	9.32 - - 0.37 (0.04)
			9.58

สัมประสิทธิ์การพยากรณ์ (R^2)

Squared Multiple Correlations for X - Variables

A1	A2	A3	A4	A5	A6
-----	-----	-----	-----	-----	-----
0.55	0.40	0.41	0.48	0.31	0.41

Squared Multiple Correlations for X - Variables

A7	A8	A9	A10	A11	A12
-----	-----	-----	-----	-----	-----
0.45	0.47	0.27	0.33	0.33	0.28

Squared Multiple Correlations for X - Variables

A13	A14	A15	A16	A17	A18
-----	-----	-----	-----	-----	-----
0.40	0.52	0.52	0.59	0.40	0.36

Squared Multiple Correlations for X - Variables

A19	A20	A21	A22	A23	A24
-----	-----	-----	-----	-----	-----
0.42	0.37	0.31	0.32	0.30	0.29

Squared Multiple Correlations for X - Variables

A25	A26	A27	A28	A29	A30
-----	-----	-----	-----	-----	-----
0.30	0.28	0.47	0.34	0.48	0.49

Squared Multiple Correlations for X - Variables

A31	A32	A33	A34
-----	-----	-----	-----
0.56	0.50	0.24	0.25

แสดงผลการวิเคราะห์องค์ประกอบเชิงยืนยันของโมเดล

ด้านการวิเคราะห์เนื้อหา

Goodness of Fit Statistics

Degrees of Freedom = 376
 Minimum Fit Function Chi-Square = 389.51 (P = 0.30)
 Normal Theory Weighted Least Squares Chi-Square = 375.34 (P = 0.50)
 Estimated Non-centrality Parameter (NCP) = 0.0
 90 Percent Confidence Interval for NCP = (0.0 ; 48.66)
 Minimum Fit Function Value = 1.10
 Population Discrepancy Function Value (F0) = 0.0
 90 Percent Confidence Interval for F0 = (0.0 ; 0.14)
 Root Mean Square Error of Approximation (RMSEA) = 0.0
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.019)
 P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 2.30
 90 Percent Confidence Interval for ECVI = (2.30 ; 2.44)
 ECVI for Saturated Model = 3.36
 ECVI for Independence Model = 78.35

Chi-Square for Independence Model with 561 Degrees of Freedom = 27666.56
 Independence AIC = 27734.56
 Model AIC = 813.34
 Saturated AIC = 1190.00
 Independence CAIC = 27900.21
 Model CAIC = 1880.33
 Saturated CAIC = 4088.91

Normed Fit Index (NFI) = 0.99
 Non-Normed Fit Index (NNFI) = 1.00
 Parsimony Normed Fit Index (PNFI) = 0.66
 Comparative Fit Index (CFI) = 1.00
 Incremental Fit Index (IFI) = 1.00
 Relative Fit Index (RFI) = 0.98

Critical N (CN) = 403.36

Root Mean Square Residual (RMR) = 0.024
 Standardized RMR = 0.043
 Goodness of Fit Index (GFI) = 0.94
 Adjusted Goodness of Fit Index (AGFI) = 0.91
 Parsimony Goodness of Fit Index (PGFI) = 0.59

สัมประสิทธิ์คะแนนองค์ประกอบ (FS)

TI COA

Factor Scores Regressions

KSI

A1	A2	A3	A4	A5	A6
DIS 0.05	0.13	0.08	0.21	-0.02	0.08
DIF 0.01	0.03	0.04	0.16	-0.02	0.02
KEY 0.08	0.07	0.06	0.13	-0.06	0.02
SUM 0.09	0.02	0.01	0.02	-0.08	-0.04

KSI

A7	A8	A9	A10	A11	A12
DIS 0.17	0.19	0.03	0.20	0.15	-0.13
DIF 0.01	0.05	-0.03	0.13	-0.01	0.11
KEY 0.13	0.11	0.02	0.17	0.07	-0.11
SUM 0.08	0.03	0.01	0.09	0.00	-0.09

KSI

A13	A14	A15	A16	A17	A18
DIS 0.03	0.10	0.10	0.12	0.04	-0.05
DIF 0.14	0.25	0.29	0.38	0.04	-0.08
KEY 0.06	0.04	0.09	0.12	0.03	-0.05
SUM 0.06	-0.05	0.04	0.05	0.04	-0.01

KSI

A19	A20	A21	A22	A23	A24
DIS 0.07	0.05	0.01	0.09	-0.04	0.02
DIF 0.00	0.05	0.01	0.08	-0.07	0.03
KEY 0.02	0.06	-0.03	0.09	-0.03	-0.02
SUM 0.01	0.09	-0.03	0.10	0.01	0.01

KSI

A25	A26	A27	A28	A29	A30
DIS -0.01	0.06	0.12	-0.04	0.03	-0.03
DIF 0.00	0.06	0.06	-0.07	0.04	-0.06
KEY 0.02	0.09	0.22	0.00	0.15	0.12
SUM 0.03	0.09	0.27	0.04	0.22	0.22

KSI

A31	A32	A33	A34
DIS 0.02	0.07	0.00	-0.01

DIF	0.01	0.06	-0.02	0.04
KEY	0.18	0.16	0.05	0.03
SUM	0.28	0.21	0.08	0.05

ความคลาดเคลื่อนของตัวป่งซี (e)

THETA-DELTA						
A1	A2	A3	A4	A5	A6	-A1
0.18						
	(0.02)					
11.68						
A2 0.11	0.33					
(0.02)	(0.03)					
6.19	11.59					
A3 0.10	0.12	0.34				
(0.02)	(0.02)	(0.03)				
6.42	5.24	11.97				
A4 0.07	0.03	0.07	0.29			
(0.02)	(0.02)	(0.02)	(0.03)			
4.96	1.29	3.52	11.21			
A5 0.10	-0.02	--	--	0.40		
(0.01)	(0.02)			(0.03)		
8.09	-1.06			13.30		
A6 0.05	-0.01	-0.02	-0.01	0.13	0.33	
(0.01)	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	
3.14	-0.65	-1.11	-0.67	5.96	11.67	
A7 --	--	--	--	0.12	0.07	
(0.02)	(0.02)					
6.24	3.62					
A8 --	-0.04	--	--	0.05	0.06	
(0.02)			(0.02)	(0.02)		
-2.75			2.98	3.41		
A9 --	--	--	-0.04	0.03	--	--
(0.02)	(0.01)					
-2.75	2.31					
A10 --	--	--	-0.03	--	--	--
(0.02)						
			-2.05			
A11 --	-0.02	--	--	--	--	--
(0.01)						
-1.62						
A12 --	--	0.04	--	--	--	--
(0.01)						
2.48						
A13 --	--	-0.03	--	0.07	0.04	
(0.02)		(0.02)	(0.02)			
-1.71		3.98	2.03			
A14 --	-0.03	--	--	--	--	--
(0.01)						
-2.06						

A15	--	--	--	-0.06	--	--
(0.02)						
-3.93						
A16	-0.02	--	-0.03	-0.04	--	--
(0.01)		(0.02)	(0.02)			
-2.28		-1.79	-2.62			
A17	0.03	--	--	--	0.05	--
(0.01)					(0.01)	
2.90					3.55	
A18	--	--	0.06	--	--	--
(0.01)						
4.47						
A19	--	--	--	--	--	-0.02
						(0.01)
						-1.55
A20	--	--	--	--	--	--
A21	--	--	--	--	--	--
A22	-0.02	--	--	-0.04	--	--
(0.01)				(0.01)		
-2.98				-2.88		
A23	--	--	--	--	--	--
A24	--	-0.03	--	--	--	0.03
(0.01)					(0.02)	
	-2.50					2.06
A25	--	--	--	0.02	--	--
(0.01)						
1.54						
A26	--	--	--	--	--	--
A27	--	-0.05	-0.03	--	0.03	0.02
(0.01)	(0.01)		(0.01)	(0.01)		
-3.65	-2.66		2.60	1.64		
A28	--	-0.03	--	--	0.04	--
(0.01)			(0.01)			
-1.89			2.46			
A29	--	--	--	--	0.03	--
(0.01)						
2.29						
A30	--	--	--	--	--	0.01
						(0.01)
						0.45
A31	-0.03	--	--	--	-0.03	--
(0.01)	(0.01)					
-3.04	-2.29					
A32	--	--	--	--	--	--
A33	--	-0.05	--	-0.03	0.05	0.04
(0.02)		(0.02)	(0.02)	(0.02)		
-3.23		-2.11	3.18	2.38		
A34	--	--	--	--	--	--

THETA-DELTA

A7	A8	A9	A10	A11	A12
-----	-----	-----	-----	-----	-----
A7	0.32				
	(0.03)				

	12.08						
A8	- -	0.32 (0.03)					
	11.85						
A9	- -	0.04 (0.02)	0.36 (0.03)				
		2.22	12.62				
A10	- -	- -	0.11	0.37 (0.02)	(0.03)		
				5.35	12.38		
A11	- -	-0.03	0.10 (0.02)	0.07 (0.02)	0.35 (0.02)	(0.03)	
	-1.93	4.77	3.33	12.46			
A12	0.04- (0.02)	- -	0.10 (0.02)	0.15 (0.02)	0.12 (0.02)	0.38 (0.03)	
	2.73		4.73	6.80	5.75	12.52	
A13	0.05- (0.02)	- -	- -	-0.05 (0.02)	- -	- -	
	2.40			-2.49			
A14	- - (0.02)	- -	- -	-0.07	- -	- -	
	-3.71						
A15	- -	- -	- -	0.01 (0.02)	- -	- -	
				0.49			
A16	- -	- -	- -	-0.05 (0.02)	- -	-0.04 (0.02)	
				-2.75		-2.24	
A17	- -	- -	-0.03 (0.01)	- -	-0.05 (0.02)	-0.03 (0.01)	
			-1.99		-3.52	-1.76	
A18	- -	- -	- -	- -	- -	- -	
A19	-0.04 (0.01)	- -	- -	- -	- -	- -	
	-3.09						
A20	- -	0.03 (0.02)	- -	- -	-0.03 (0.02)	- -	
		1.90			-1.91		
A21	- -	- -	- -	- -	- -	- -	
A22	- -	- -	- -	- -	- -	- -	
A23	- -	- -	- -	0.02 (0.01)	- -	- -	
				1.89			
A24	- - (0.02)	- -	- -	- -	0.05	- -	
					3.34		
A25	- -	- -	- -	-0.04 (0.02)	- -	0.03 (0.02)	
				-2.51		1.75	
A26	- -	-0.04 (0.02)	- -	-0.03 (0.02)	- -	- -	
		-2.79		-1.99			
A27	- -	- -	- -	-0.05 (0.01)	-0.02 (0.01)	- -	
				-3.84	-1.80		

310

A28	--	--	--	--	--	--
A29	-0.05 (0.02) -3.06	--	--	--	0.03 (0.02) 2.09	--
A30	--	--	--	--	0.03	0.05
	(0.02)	(0.02)				
	2.20	2.95				
A31	--	--	--	--	--	--
A32	--	-0.03	--	--	--	0.05
	(0.02)				(0.02)	
	-1.80				3.07	
A33	--	0.06 (0.02)	--	--	0.03 (0.02)	--
		2.69			1.93	
A34	--	0.05 (0.02)	--	--	--	--
	2.49					

THETA-DELTA

A13	A14	A15	A16	A17	A18	
A13	0.39 0.03) 11.89					
A14	0.08 (0.02)	0.29 (0.03)				
	3.79	11.13				
A15	--	--	0.30 (0.03) 10.99			
A16	--	--	--	0.25 (0.02)		
	9.94					
A17	--	--	0.03 (0.03)	--	0.42	
		1.73		12.11		
A18	--	--	0.05 (0.03)	0.03 (0.04)	0.25	0.48
	(0.02)	(0.02)	2.96	2.08	8.14	12.38
A19	--	--	--	0.04	0.24	0.23
	(0.01)	(0.03)	(0.03)			
				2.81	8.17	7.77
A20	--	--	--	--	0.15	0.19
	(0.03)	(0.03)				
	5.52	6.39				
A21	--	--	--	--	--	--
A22	--	--	--	--	--	--
A23	--	--	0.04	--	--	--
	(0.01)					
			2.82			
A24	--	--	-0.01 (0.02) -0.70	--	--	--

A25	--	--	-0.03 (0.02) -1.96	--	--	--
A26	--	--	-0.04 -2.32	--	--	--
A27	--	0.03 (0.01)	--	--	--	--
2.19						
A28	0.03	0.06 (0.02) 1.64	-- (0.02) 3.58	--	--	--
A29	--	--	--	--	--	--
A30	--	0.06	--	--	--	--
(0.02)						
3.66						
A31	--	0.02 (0.01) 1.54	--	--	--	--
A32	-0.05 (0.02) -2.72	-0.03 (0.02) -1.86	--	--	--	--
A33	0.04 (0.02) 2.03	--	--	--	-0.03 (0.02) -1.70	--
A34	--	--	--	--	-0.03 (0.02) -1.95	--

THETA-DELTA

A19	A20	A21	A22	A23	A24	
A19	0.40 (0.03) 11.84					
A20	0.17 (0.03) 6.00	0.43 (0.04) 12.12				
A21	--	0.02 (0.01) 1.74	0.37 (0.03) 12.81			
A22	--	--	0.22	0.37 (0.02) 8.94	(0.03) 12.55	
A23	--	--	0.19 (0.02)	0.20 (0.02)	0.33 (0.03)	
8.53	8.84	12.71				
A24	--	-0.01 (0.02) -0.65	0.05 (0.02) 2.36	0.08 (0.02) 3.92	0.09 (0.02) 4.71	0.34 (0.03) 12.79
A25	--	--	--	--	--	0.06 (0.02) 3.52
A26	-0.02 (0.01)	--	-- (0.02)	--	--	0.07

-1.82						3.76		
A27	--	-0.03	--	--	--	--	--	
		(0.01)						
		-1.93						
A28	--	--	--	--	--	--	--	
A29	--	-0.04	0.04	--	--	--	--	
(0.02)	(0.01)							
		-2.58	2.86					
A30	0.04	--	--	--	--	--	--	
(0.01)								
	3.10							
A31	--	--	--	-0.02	--	--	--	
				(0.01)				
				-1.76				
A32	--	--	--	--	--	--	--	
A33	-0.03	--	--	--	--	--	0.07	
(0.02)			(0.02)					
-2.11							4.11	
A34	--	--	0.03	--	--	--	--	
(0.01)								
			2.18					
	THETA-DELTA							
A25	A26	A27	A28	A29	A30			
-----	-----	-----	-----	-----	-----			
A25	0.35							
(0.03)								
12.84								
A26	0.17	0.37						
(0.02)	(0.03)							
7.78	12.82							
A27	0.05	--	0.23					
(0.01)		(0.02)						
3.67		11.64						
A28	0.05	0.04	0.07	0.31				
(0.02)	(0.02)	(0.02)	(0.02)	(0.02)				
2.63	2.07	4.69	12.39					
A29	--	--	--	0.03	0.26			
				(0.01)	(0.02)			
				1.99	11.96			
A30	--	--	--	--	--	0.26		
						(0.02)		
						11.85		
A31	--	--	-0.03	--	--	--	--	
			(0.01)					
			-2.53					
A32	--	--	--	--	--	--	--	
A33	--	--	--	--	--	--	-0.03	
							(0.02)	
							-1.85	
A34	--	--	--	--	--	--	--	

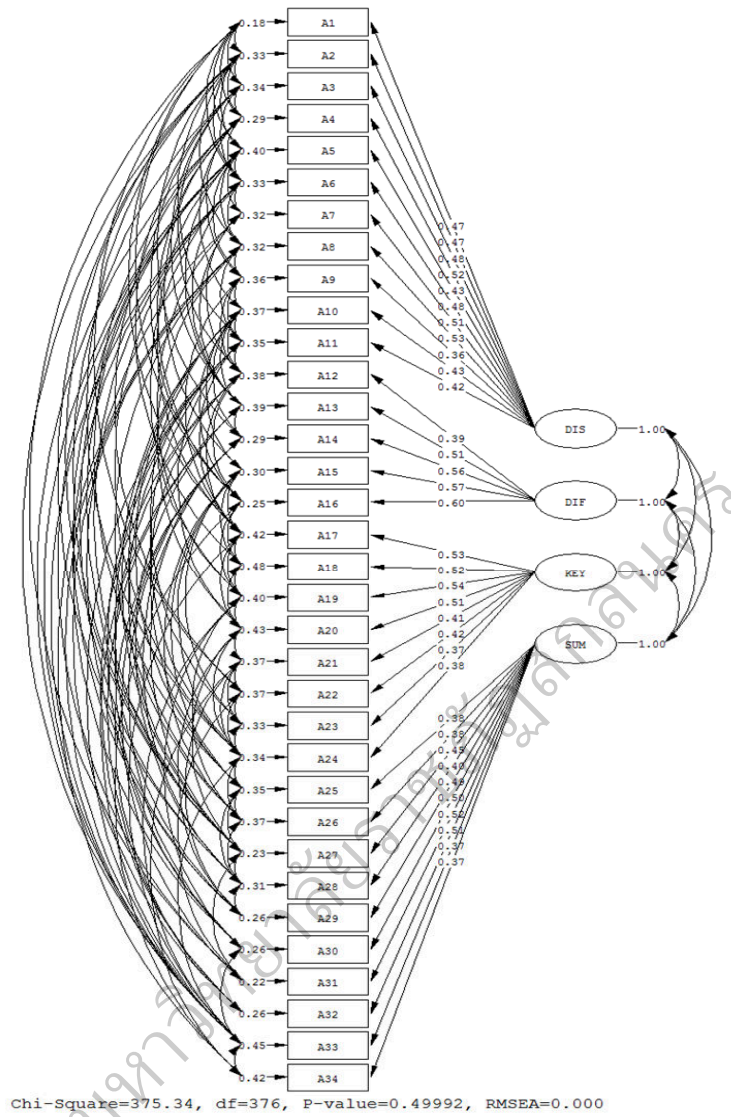
THETA-DELTA

A31 A32 A33 A34

A31	0.22			
	(0.02)			
	11.11			
A32	- -	0.26		
		(0.02)		
		11.83		
A33	- -	- -	0.45	
			(0.03)	
			13.11	
A34	- -	- -	0.21	0.42
			(0.03)	(0.03)
			8.03	12.87

ค่าสัมประสิทธิ์สหสัมพันธ์ระหว่างตัวแปร

PHI	DIS	DIF	KEY	SUM
DIS	1.00			
DIF	0.84	1.00		
KEY	0.95	0.86	1.00	
SUM	0.78	0.72	0.97	1.00



แสดงผลการวิเคราะห์องค์ประกอบเชิงยืนยันของโมเดล
ด้านการวิเคราะห์เนื้อหา

แสดงผลการวิเคราะห์ข้อมูล ด้านการวิเคราะห์ความสัมพันธ์

```

The following lines were read from file
C:\Users\Administrator\Desktop\REL\REL.LPJ:
TI REL
REL
!DA NI=38 NO=355 NG=1 MA=CM
SY='C:\Users\Administrator\Desktop\REL\REL.dsf' NG=1
SE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29 30 31 32 /
MO NX=32 NK=5 LX=FU,FI PH=SY,FR TD=SY,FI
LK
UND EXA CAU COM DET
FR LX(1,1) LX(2,1) LX(3,1) LX(4,1) LX(5,1) LX(6,1) LX(7,2) LX(8,2)
LX(9,2)
FR LX(10,2) LX(11,2) LX(12,2) LX(13,2) LX(14,2) LX(15,3) LX(16,3)
LX(17,3) LX(18,3)
FR LX(19,3) LX(20,3) LX(21,3) LX(22,4) LX(23,4) LX(24,4) LX(25,4)
LX(26,4) LX(27,5)
FR LX(28,5) LX(29,5) LX(30,5) LX(31,5) LX(32,5)
FR TD 1 1 TD 2 2 TD 3 3 TD 4 4 TD 5 5 TD 6 6 TD 7 7 TD 8 8 TD 9 9
TD 10 10 TD 11 11
FR TD 12 12 TD 13 13 TD 14 14 TD 15 15 TD 16 16 TD 17 17 TD 18 18
TD 19 19 TD 20 20
FR TD 21 21 TD 22 22 TD 23 23 TD 24 24 TD 25 25 TD 26 26 TD 27 27
TD 28 28 TD 29 29
FR TD 30 30 TD 31 31 TD 32 32 TD 26 27 TD 2 1 TD 25 27 TD 23 22 TD
20 18 TD 26 30
FR TD 15 21 TD 12 28 TD 21 22 TD 22 22 TD 28 30 TD 13 17 TD 21 21
TD 19 5 TD 7 8
FR TD 15 16 TD 19 20 TD 1 14 TD 22 22 TD 14 18 TD 19 5 TD 15 18 TD
2 15 TD 9 22
FR TD 18 19 TD 14 3 TD 1 4 TD 7 22 TD 7 8 TD 14 31 TD 19 29 TD 6 7
TD 32 32 TD 23 21
FR TD 6 8 TD 15 27 TD 12 19 TD 19 30 TD 14 31 TD 27 28 TD 17 28 TD
9 26 TD 10 31
FR TD 15 16 TD 19 27 TD 8 12 TD 1 12 TD 23 21 TD 14 32 TD 15 31 TD
10 11 TD 9 24
FR TD 12 13 TD 32 31 TD 24 27 TD 2 5 TD 5 7 TD 9 12 TD 20 29 TD 13
16 TD 1 21
FR TD 1 31 TD 1 29 TD 28 32 TD 16 29 TD 12 20 TD 2 29 TD 1 30 TD
12 32 TD 3 31
FR TD 1 30 TD 10 31 TD 2 12 TD 17 20 TD 22 30 TD 13 20 TD 14 24 TD
5 14 TD 18 31
FR TD 1 32 TD 7 14 TD 20 32 TD 4 18 TD 9 24 TD 1 21 TD 7 22 TD 1
28 TD 21 29
FR TD 1 30 TD 2 12 TD 2 32 TD 1 8 TD 3 31 TD 6 17 TD 12 32 TD 10
21 TD 22 28
FR TD 10 22 TD 14 24 TD 25 TD 4 27 TD 22 30 TD 5 14 TD 4 18 TD 11
17 TD 10 21
FR TD 4 4 TD 1 31 TD 1 10 TD 14 30 TD 7 14 TD 16 32 TD 11 23 TD 14
24 TD 19 24
FR TD 16 29 TD 12 20 TD 17 20 TD 17 27 TD 19 26 TD 13 24 TD 13 20
TD 15 32 TD 14 15

```

FR TD 13 22 TD 20 27 TD 12 30 TD 21 32 TD 18 31 TD 12 16 TD 1 9 TD
15 20 TD 1 15
FR TD 20 31 TD 1 31 TD 1 3 TD 3 9 TD 17 23 TD 2 3 TD 19 31 TD 16
31 TD 2 31 TD 22 32
FR TD 14 16 TD 14 20 TD 2 9 TD 8 28 TD 20 32 TD 14 17 TD 1 32 TD 4
10 TD 14 26 TD 6 13
FR TD 23 28 TD 23 28 TD 21 28 TD 23 32 TD 12 21 TD 1 27 TD 23 29
TD 22 29 TD 20 21
FR TD 3 7 TD 2 23 TD 5 22 TD 3 24 TD 2 29 TD 1 26 TD 4 26 TD 22 31
TD 7 31 TD 4 8
FR TD 23 30 TD 1 11 TD 12 26 TD 23 31 TD 7 26 TD 7 9 TD 4 24 TD 4
10 TD 6 28 TD 8 14
FR TD 8 25 TD 12 27 TD 8 13 TD 13 18 TD 11 15 TD 26 29 TD 9 14 TD
26 31 TD 6 21 TD 6 30
FR TD 6 29 TD 1 24 TD 16 23 TD 13 19 TD 15 26 TD 1 16 TD 18 32 TD
1 17 TD 2 17 TD 2 16
FR TD 16 26 TD 4 10 TD 22 31 TD 12 22 TD 12 23 TD 4 14 TD 5 9 TD 1
6 TD 19 32 TD 15 17
FR TD 9 21 TD 20 28 TD 12 27 TD 18 28 TD 5 10 TD 4 23 TD 3 18 TD
16 17 TD 18 27 TD 19 25
FR TD 8 22 TD 15 23 TD 13 19 TD 8 22 TD 1 6 TD 19 20 TD 5 10 TD 4
30 TD 8 9 TD 5 25 TD 5 29
FR TD 19 29 TD 3 25 TD 15 31 TD 21 30 TD 17 29 TD 21 30 TD 12 16
TD 13 29 TD 14 15 TD 10 15 TD 13 18 TD 17 27 TD 1 32 TD 1 27 TD 6
17 TD 3 31 TD 13 20 TD 1 9 TD 3 24 TD 15 26
FR TD 11 15 TD 26 31 TD 5 10 TD 29 31 TD 12 17 TD 28 31 TD 10 23
TD 7 3 TD 28 31 TD 18 14 TD 30 32
FR TD 21 15 TD 6 16 TD 21 26 TD 20 23 TD 11 22 TD 21 22 TD 25 31
TD 29 32 TD 13 32 TD 10 18
FR TD 26 27 TD 14 19 TD 18 21 TD 11 28 TD 29 32 TD 1 8 TD 19 21 TD
12 15 TD 13 31 TD 4 27 TD 10 27
FR TD 13 27 TD 5 17 TD 19 28 TD 17 30 TD 30 31 TD 2 11 TD 8 27 TD
8 17 TD 10 15 TD 15 24 TD 16 24
FR TD 18 24 TD 15 24 TD 16 24 TD 18 24 TD 8 16 TD 9 16 TD 2 3 TD 8
16 TD 2 11 TD 3 16
FR TD 2 25 TD 9 17 TD 10 24 TD 9 31 TD 9 17 TD 2 14 TD 13 26 TD 6
17 TD 1 30 TD 18 21
FR TD 5 19 TD 1 30 TD 2 3 TD 20 30 TD 3 4 TD 22 24 TD 9 21 TD 27
30 TD 1 27 TD 8 22 TD 13 24
FR TD 18 25 TD 25 32 TD 1 16 TD 13 24 TD 2 16 TD 15 30 TD 4 30 TD
15 29 TD 21 30 TD 11 22 TD 21 30
FR TD 12 30 TD 15 24 TD 5 29 TD 23 30 TD 6 14 TD 11 18 TD 7 19 TD
11 15 TD 6 13 TD 1 6 TD 15 23 TD 11 32
FR TD 3 18 TD 2 14 TD 2 15 TD 12 32 TD 6 29 TD 11 22 TD 1 32 TD 8
14 TD 1 24 TD 16 26 TD 2 3 TD 1 3 TD 3 14
FR TD 15 26 TD 10 31 TD 7 31 TD 10 24 TD 11 30 TD 8 22 TD 19 24 TD
7 11 TD 3 11 TD 13 25
PD
OU ME=ML AM PC RS EF FS SS SC IT=250
TI REL

น้ำหนักขององค์ประกอบ b(SE)

TI REL

Number of Iterations =170

LISREL Estimates (Maximum Likelihood)

LAMBDA-X		UND	EXA	CAU	COM	DET
		-----	-----	-----	-----	-----
A35	0.37	- -	- -	- -	- -	- -
	(0.04)					
	8.63					
A36	0.43	- -	- -	- -	- -	- -
	(0.04)					
	10.84					
A37	0.50	- -	- -	- -	- -	- -
	(0.03)					
	14.90					
A38	0.55	- -	- -	- -	- -	- -
	(0.03)					
	16.10					
A39	0.55	- -	- -	- -	- -	- -
	(0.03)					
	16.40					
A40	0.45	- -	- -	- -	- -	- -
	(0.04)					
	12.72					
A41	- -	0.47	- -	- -	- -	- -
	(0.04)					
	12.70					
A42	- -	0.47	- -	- -	- -	- -
	(0.04)					
	13.55					
A43	- -	0.48	- -	- -	- -	- -
	(0.04)					
	12.92					
A44	- -	0.44	- -	- -	- -	- -
	(0.03)					
	13.66					
A45	- -	0.50	- -	- -	- -	- -
	(0.03)					
	15.07					
A46	- -	0.51	- -	- -	- -	- -
	(0.04)					
	14.29					
A47	- -	0.47	- -	- -	- -	- -
	(0.03)					
	13.81					
A48	- -	0.35	- -	- -	- -	- -
	(0.04)					
	9.77					

A49	--	--	0.49 (0.05) 10.49	--	--
A50	--	--	0.46 (0.04) 11.09	--	--
A51	--	--	0.51 (0.04) 11.37	--	--
A52	--	--	0.34 (0.04) 8.63	--	--
A53	--	--	0.34 (0.04) 8.18	--	--
A54	--	--	0.34 (0.04) 8.44	--	--
A55	--	--	0.13 (0.03) 3.92	--	--
A56	--	--	--	0.09 (0.03) 2.95	--
A57	--	--	--	0.06 (0.03) 1.96	--
A58	--	--	--	0.64 (0.04) 17.26	--
A59	--	--	--	0.59 (0.03) 17.39	--
A60	--	--	--	0.61 (0.03) 17.54	--
A61	--	--	--	--	0.36 (0.04) 8.09
A62	--	--	--	--	0.47 (0.04) 12.99
A63	--	--	--	--	0.51 (0.04) 13.20
A64	--	--	--	--	0.45 (0.04) 11.28
A65	--	--	--	--	0.35 (0.05) 6.48
A66	--	--	--	--	0.36 (0.05) 6.82

สัมประสิทธิ์การพยากรณ์ (R²)

Squared Multiple Correlations for X - Variables					
A35	A36	A37	A38	A39	A40
0.22	0.31	0.52	0.58	0.59	0.40
Squared Multiple Correlations for X - Variables					
A41	A42	A43	A44	A45	A46
0.40	0.45	0.40	0.45	0.52	0.47
Squared Multiple Correlations for X - Variables					
A47	A48	A49	A50	A51	A52
0.46	0.26	0.43	0.42	0.47	0.23
Squared Multiple Correlations for X - Variables					
A53	A54	A55	A56	A57	A58
0.22	0.24	0.04	0.02	0.01	0.64
Squared Multiple Correlations for X - Variables					
A59	A60	A61	A62	A63	A64
0.65	0.63	0.21	0.54	0.52	0.45
Squared Multiple Correlations for X - Variables					
A65	A66				
0.26	0.29				

แสดงผลการวิเคราะห์องค์ประกอบเชิงยืนยันของโมเดล

ด้านการวิเคราะห์ความสัมพัทธ์

Goodness of Fit Statistics

Degrees of Freedom = 206

Minimum Fit Function Chi-Square = 221.31 (P = 0.22)

Normal Theory Weighted Least Squares Chi-Square = 205.68 (P = 0.49)

Estimated Non-centrality Parameter (NCP) = 0.0

90 Percent Confidence Interval for NCP = (0.0 ; 37.32)

Minimum Fit Function Value = 0.63

Population Discrepancy Function Value (F0) = 0.0

90 Percent Confidence Interval for F0 = (0.0 ; 0.11)

Root Mean Square Error of Approximation (RMSEA) = 0.0

90 Percent Confidence Interval for RMSEA = (0.0 ; 0.023)

P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 2.40

90 Percent Confidence Interval for ECVI = (2.40 ; 2.51)

ECVI for Saturated Model = 2.98

ECVI for Independence Model = 50.33

Chi-Square for Independence Model with 496 Degrees of Freedom =
17752.28

Independence AIC = 17816.28
Model AIC = 849.68
Saturated AIC = 1056.00
Independence CAIC = 17972.19
Model CAIC = 2418.50
Saturated CAIC = 3628.48
Normed Fit Index (NFI) = 0.99
Non-Normed Fit Index (NNFI) = 1.00
Parsimony Normed Fit Index (PNFI) = 0.41
Comparative Fit Index (CFI) = 1.00
Incremental Fit Index (IFI) = 1.00
Relative Fit Index (RFI) = 0.97
Critical N (CN) = 410.71
Root Mean Square Residual (RMR) = 0.045
Standardized RMR = 0.092
Goodness of Fit Index (GFI) = 0.96
Adjusted Goodness of Fit Index (AGFI) = 0.91
Parsimony Goodness of Fit Index (PGFI) = 0.38

สัมประสิทธิ์คะแนนองค์ประกอบ (FS)

TI REL

Factor Scores Regressions

KSI						
A35	A36	A37	A38	A39	A40	UND
0.03	0.13	0.20	0.31	0.40	0.20	
EXA	0.00	0.06	0.07	0.13	0.19	0.01
CAU	-0.03	-0.03	0.05	0.08	0.04	-0.07
COM	-0.09	0.04	0.05	0.07	0.01	0.07
DET	-0.25	0.11	-0.04	0.00	0.08	0.16
KSI						
A41	A42	A43	A44	A45	A46	
UND	-0.13	0.04	0.04	0.21	0.13	0.11
EXA	0.02	0.16	0.12	0.25	0.19	0.20
CAU	0.09	0.02	0.07	0.14	0.14	0.12
COM	0.12	-0.18	0.07	0.05	0.06	-0.07
DET	-0.04	0.03	0.03	0.16	-0.03	-0.03
KSI						
A47	A48	A49	A50	A51	A52	
UND	0.07	0.11	0.03	-0.04	-0.01	0.02
EXA	0.20	0.12	0.06	0.03	0.07	0.06
CAU	0.09	-0.20	0.40	0.20	0.33	0.18
COM	-0.22	-0.24	0.29	-0.06	0.11	-0.07
DET	0.05	-0.05	0.04	0.01	0.09	-0.10
KSI						
A53	A54	A55	A56	A57	A58	
UND	0.03	0.01	-0.01	-0.15	-0.02	-0.05
EXA	0.04	0.01	0.03	-0.23	0.02	-0.09

CAU	0.03	0.23	0.10	-0.17	-0.03	0.11
COM	-0.32	0.24	-0.05	-0.09	-0.09	0.54
DET	-0.41	0.03	-0.11	-0.27	-0.22	0.16

KSI

A59	A60	A61	A62	A63	A64	
UND	0.10	-0.05	-0.05	0.07	0.08	0.09
EXA	-0.05	-0.04	0.07	0.05	0.07	0.09
CAU	0.05	0.31	-0.34	0.06	0.10	-0.01
COM	0.70	0.77	-0.96	0.29	0.13	0.03
DET	0.10	-0.06	0.03	0.60	0.53	0.51

KSI

A65	A66	
UND	-0.10	-0.01
EXA	-0.09	-0.01
CAU	-0.17	-0.05
COM	0.01	0.08
DET	0.22	0.29

ความคลาดเคลื่อนของตัวป่งซี (e)

THETA-DELTA

A35	A36	A37	A38	A39	A40	
A35	0.49 (0.04) 12.72					
A36	0.25 (0.03) 8.69	0.40 (0.03) 12.15				
A37	0.05 (0.02) 2.68	0.04 (0.02) 2.48	0.23 (0.02) 10.77			
A38	-0.01 (0.02) -0.61	-	0.02 (0.01) 1.19	0.22 (0.02) 10.47		
A39	-	-0.03 (0.01) -2.14	-	-	0.21 (0.02) 10.38	
A40	-0.03 (0.02) -2.09	-	-	-	0.30 12.28	
A41	-	-	0.04 (0.01) 2.89	0.02 (0.02) 1.46	0.07 (0.02) 4.22	0.10 (0.02) 5.45
A42	-0.03 (0.02) -2.10	-	-	0.03 (0.01) 1.75	-	0.07 (0.02) 4.10
A43	0.07 (0.02) 3.07	0.05 (0.02) 2.39	-0.01 (0.02) -0.64	-	0.04 (0.02) 2.47	-
A44	0.01 (0.02) 0.81	-	-	-0.04 (0.01) -3.16	-0.03 (0.01) -2.14	-
A45	-0.03	-0.03	-0.02	-	-	-

	(0.02)	(0.02)	(0.01)			
	-1.43	-1.74	-1.56			
A46	-0.08	-0.05	--	--	--	--
	(0.02)	(0.02)				
	-4.17	-2.61				
A47	--	--	--	--	--	0.02
	(0.01)					
1.20						
A48	0.08	0.03	0.03	-0.03	-0.04	0.01
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
	3.22	1.44	1.50	-1.50	-2.41	0.40
A49	0.10	0.07	--	--	--	--
	(0.02)	(0.02)				
	4.22	3.06				
A50	0.06	0.05	0.02	--	--	0.02
	(0.02)	(0.02)	(0.01)			(0.02)
	2.76	2.26	1.14			1.14
A51	0.07	0.06	--	--	-0.02	0.05
	(0.02)	(0.02)			(0.01)	(0.02)
	3.10	2.83			-1.10	2.92
A52	--	--	0.02	-0.04	--	--
			(0.01)	(0.01)		
			1.37	-2.51		
A53	--	--	--	--	-0.02	--
					(0.02)	
					-1.41	
A54	--	--	--	--	--	--
A55	-0.06	--	--	--	--	0.02
	(0.02)					(0.01)
	-3.69					1.65
A56	--	--	--	--	0.05	--
					(0.01)	
3.35						
A57	--	0.04	--	0.02	--	--
		(0.02)		(0.01)		
		2.86		1.54		
A58	0.04	--	0.02	0.02	--	--
	(0.02)		(0.02)	(0.02)		
	1.94		1.55	1.23		
A59	--	-0.02	-0.02	--	-0.02	--
		(0.01)	(0.01)		(0.01)	
		-1.10	-1.45		-1.78	
A60	0.06	--	--	0.03	--	--
	(0.02)			(0.02)		
	3.25			2.06		
A61	0.07	--	--	0.05	--	--
	(0.02)			(0.02)		
	3.65			3.33		
A62	-0.01	--	--	--	--	-0.04
	(0.02)			(0.01)		
	-0.78					-2.76
A63	-0.01	-0.04	--	--	-0.02	-0.04
	(0.02)	(0.02)			(0.01)	(0.02)
	-0.71	-2.51			-1.67	-2.53
A64	0.07	--	--	-0.02	--	-0.04
	(0.02)			(0.01)		(0.02)

	4.05			-1.32		-2.46
A65	0.11 (0.02)	0.07 (0.02)	0.04 (0.01)	- -	- -	- -
	5.05	3.27	2.99			
A66	0.07 (0.02)	0.08 (0.02)	- -	- -	- -	- -
	3.30	3.90				
THETA-DELTA						
A41	A42	A43	A44	A45	A46	
-----	-----	-----	-----	-----	-----	
A41	0.32 (0.03)					
	12.05					
A42	0.08 (0.02)	0.27 (0.02)				
	4.93	11.46				
A43	0.06 (0.02)	0.03 (0.02)	0.34 (0.03)			
	3.34	1.84	11.96			
A44	- -	- -	- -	0.24 (0.02)		
				11.58		
A45	0.01 (0.01)	- -	- -	0.01 (0.02)	0.23 (0.02)	
	0.97			0.97	11.28	
A46	- -	0.02 (0.02)	-0.04	- -	- -	0.29
	1.27	-2.30			(0.03) 11.44	
A47	- -	-0.03	- -	- -	- -	0.03
	(0.02)				(0.02)	
	-2.07				1.86	
A48	-0.03 (0.02)	-0.02 (0.02)	-0.01 (0.02)	- -	- -	- -
	-1.52	-1.37	-0.71			
A49	- -	- -	- -	-0.03 (0.02)	0.01 (0.02)	-0.03 (0.02)
	-1.82	0.83	-1.54			
A50	- -	0.02 (0.01)	0.02 (0.02)	- -	- -	-0.02 (0.02)
		1.14	1.25			-0.84
A51	- -	-0.02 (0.02)	0.02 (0.02)	- -	-0.03 (0.02)	-0.04 (0.02)
		-0.95	1.09		-1.86	-2.18
A52	- -	- -	- -	0.01	-0.02	- -
	(0.02)	(0.02)				
					0.79	-1.34
A53	0.02 (0.02)	- -	- -	- -	- -	-0.04 (0.02)
	1.01					-2.36
A54	- - (0.02)	- -	- -	- -	- -	0.03
						1.79
A55	- -	- -	-0.02 (0.02)	0.06 (0.02)	- -	0.07 (0.02)
			-1.23	3.78		3.64

A56	0.05 (0.02)	0.03 (0.01)	0.06 (0.02)	0.08 (0.02)	0.03 (0.02)	0.07 (0.02)
	3.66	2.17	3.50	4.44	2.09	3.63
A57	- -	- -	- -	0.04 (0.02)	-0.02 (0.02)	0.07 (0.02)
				2.09	-1.16	3.36
A58	- -	- -	0.05 (0.02)	-0.01 (0.01)	- -	- -
			2.73	-0.83		
A59	- -	0.03 (0.01)	- -	- -	- -	- -
		2.13				
A60	-0.03 (0.01)	- -	-0.05 (0.02)	- -	- -	-0.04 (0.02)
	-2.00		-2.86			-2.23
A61	- -	-0.03 (0.02)	- -	-0.03 (0.02)	- -	-0.07 (0.02)
		-1.62		-2.22		-3.48
A62	- -	-0.03 (0.01)	- -	- -	-0.01 (0.01)	0.04 (0.02)
		-2.56			-0.75	2.95
A63	- -	- -	- -	- -	- -	- -
A64	- -	- -	- -	- -	0.01 (0.02)	-0.05 (0.02)
					0.63	-2.71
A65	0.03 (0.01)	- -	-0.02 (0.02)	0.03 (0.01)	- -	- -
	1.84		-1.11	2.10		
A66	- -	- -	- -	- -	0.01 (0.01)	0.04 (0.02)
					0.97	2.34

THETA-DELTA

A47	A48	A49	A50	A51	A52	
A47	0.26 (0.02)					
	11.56					
A48	- -	0.36 (0.03)				
		12.51				
A49	- -	0.09 (0.02)	0.32 (0.04)			
		3.96	7.98			
A50	-0.04 (0.02)	0.08 (0.02)	0.10 (0.03)	0.30 (0.03)		
	-2.19	3.57	3.23	9.03		
A51	0.03 (0.02)	0.05 (0.02)	0.03 (0.03)	0.03 (0.03)	0.29 (0.04)	
	1.55	2.50	1.03	1.04	7.86	
A52	-0.04 (0.02)	0.09 (0.02)	-0.03 (0.02)	- -	- -	0.38 (0.03)
	-2.18	4.44	-1.83			12.15
A53	-0.02 (0.02)	0.02 (0.02)	- -	- -	- -	0.10 (0.02)

	-1.30	1.17				4.37
A54	-0.05 (0.02)	0.06 (0.02)	-0.01 (0.02)	- -	-0.05 (0.02)	0.17 (0.02)
	-2.93	3.11	-0.50		-2.89	6.89
A55	- -	- -	-0.04 (0.02)	- -	- -	-0.01 (0.02)
			-2.70			-0.88
A56	0.05 (0.01)	- -	- -	- -	- -	- -
	3.59					
A57	- - (0.02)	- - (0.02)	0.02 (0.02)	0.03	-0.03	- -
				0.99	1.90	-1.40
A58	0.04 (0.02)	0.07 (0.02)	-0.03 (0.02)	-0.02 (0.02)	- -	0.04 (0.02)
	1.95	3.57	-1.76	-1.01		2.31
A59	0.03 (0.02)	- -	- -	- -	- -	0.03 (0.02)
	1.38					2.16
A60	0.03 (0.02)	0.04 (0.02)	-0.05 (0.02)	-0.04 (0.02)	- -	- -
	1.51	2.37	-2.55	-2.40		
A61	-0.01 (0.02)	- -	0.06 (0.02)	- -	0.05 (0.02)	0.06 (0.02)
	-0.49		3.20		2.64	2.74
A62	- -	- -	- -	- -	-0.04 (0.02)	0.06 (0.02)
					-2.33	3.52
A63	-0.02 (0.02)	- -	-0.03 (0.02)	-0.04 (0.02)	-0.02 (0.02)	- -
	-1.08		-1.29	-2.10	-0.76	
A64	- - (0.02)	-0.03 (0.02)	-0.02	- - (0.02)	0.02	- -
		-1.92	-1.12		1.02	
A65	-0.02 (0.02)	0.12 (0.02)	0.10 (0.02)	0.06 (0.02)	- -	0.12 (0.02)
	-1.54	6.07	4.72	3.25		5.47
A66	-0.03 (0.02)	0.08 (0.02)	0.06 (0.02)	0.09 (0.02)	- -	0.05 (0.02)
	-1.77	4.20	2.99	4.47		2.54

THETA-DELTA						
A53	A54	A55	A56	A57	A58	
A53	0.43 (0.03)					
	12.43					
A54	0.14 (0.02)	0.38 (0.03)				
	5.80	11.69				
A55	0.02 (0.02)	0.03 (0.02)	0.41 (0.03)			
	0.94	1.63	13.45			
A56	- -	- -	0.20 (0.02)	0.39 (0.03)		

	8.88	13.65				
A57	- -	0.02 (0.02)	0.21 (0.02)	0.21 (0.02)	0.48 (0.04)	
		0.95	8.48	8.67	13.55	
A58	0.11 (0.03)	- -	- -	0.01 (0.02)	- -	0.23 (0.03)
	4.15			0.89		8.93
A59	0.08 (0.02)	- -	- -	- -	- -	- -
	3.58					
A60	0.10 (0.02)	- -	0.02 (0.01)	- -	- -	- -
	3.97		1.06			
A61	0.16 (0.03)	0.07 (0.02)	- -	- -	- -	0.20 (0.03)
	6.14	3.77				6.95
A62	0.06 (0.02)	0.07 (0.02)	0.07 (0.02)	0.09 (0.02)	0.12 (0.02)	- -
	3.05	3.73	4.15	4.92	5.72	
A63	0.10 (0.02)	-0.03 (0.02)	0.09 (0.02)	0.08 (0.02)	0.10 (0.02)	- -
	4.20	-1.52	4.24	3.89	4.21	
A64	0.09 (0.02)	0.01 (0.02)	0.04 (0.02)	0.07 (0.02)	0.04 (0.02)	- -
	4.15	0.69	1.94	3.87	2.04	
A65	0.09 (0.02)	0.13 (0.02)	- -	0.03 (0.02)	0.04 (0.02)	- -
	4.05	5.96		1.52	2.26	
A66	0.06 (0.02)	0.09 (0.02)	0.07 (0.02)	0.06 (0.02)	0.08 (0.02)	- -
	2.81	4.32	4.03	3.26	3.81	

THETA-DELTA

	A59	A60	A61	A62	A63	A64
A59	0.19 (0.02)					
	8.97					
A60	- -	0.22 (0.02)				
		9.13				
A61	0.23 (0.03)	0.24 (0.03)	0.49 (0.04)			
	8.45	8.81	12.70			
A62	- -	- -	0.04 (0.02)	0.18 (0.03)		
			2.13	7.09		
A63	- -	0.02 (0.02)	- -	- -	0.24 (0.03)	
		1.41			8.05	
A64	- -	0.06 (0.02)	0.01 (0.02)	-0.04 (0.02)	- -	0.25 (0.03)
		3.37	0.74	-1.68		8.38
A65	-0.02 (0.02)	0.01 (0.02)	- -	0.01 (0.03)	-0.05 (0.03)	-0.03 (0.03)
	-1.53	0.56		0.51	-1.84	-1.02

A66	-0.01	--	--	-0.01	-0.04	-0.03
	(0.02)			(0.02)	(0.03)	(0.03)
	-0.70			-0.39	-1.43	-1.10

THETA-DELTA

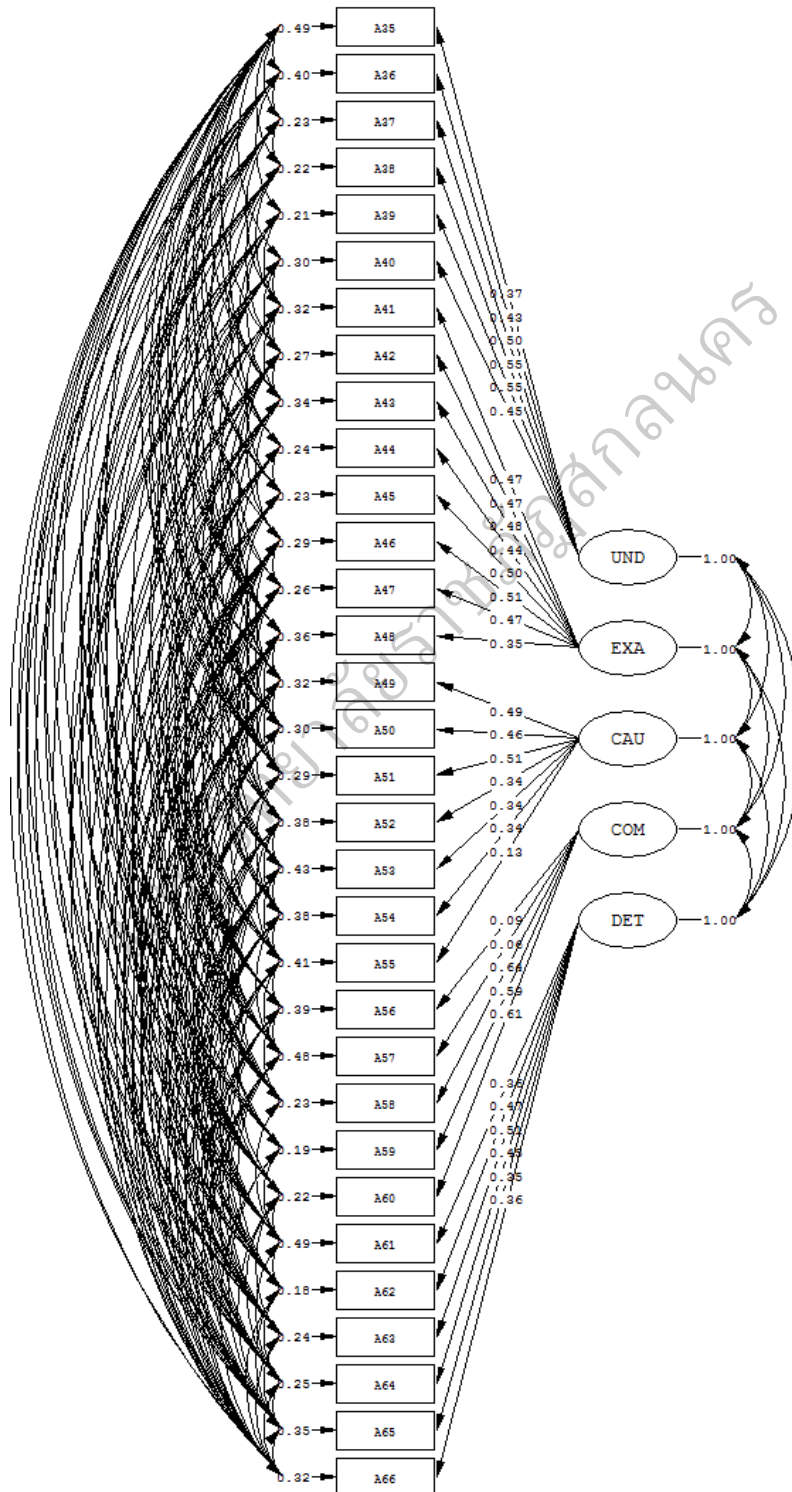
	A65	A66
	-----	-----
A65	0.35	
	(0.04)	
	8.77	
A66	0.14	0.32
	(0.03)	(0.04)
	4.47	8.30

ค่าสัมประสิทธิ์สหสัมพันธ์ระหว่างตัวแปร

PHI

	UND	EXA	CAU	COM	DET
	-----	-----	-----	-----	-----
UND	1.00				
EXA	0.92	1.00			
CAU	0.67	0.76	1.00		
COM	0.11	0.04	0.36	1.00	
DET	0.38	0.38	0.39	0.53	1.00

แสดงผลการวิเคราะห์องค์ประกอบเชิงยืนยันของโมเดล
ด้านการวิเคราะห์ความสัมพันธ์



Chi-Square=205.68, df=206, P-value=0.49313, RMSEA=0.000

แสดงผลการวิเคราะห์ข้อมูล ด้านการวิเคราะห์หลักการ

The following lines were read from file D:\PRI\PRI.PR2:
 TI PRI
 !DA NI=21 NO=355 NG=1 MA=CM
 SY='D:\PRI\PRI.dsf' NG=1
 SE
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
 19 20 21 /
 MO NX=21 NK=4 LX=FU,FI PH=SY,FR TD=SY,FI
 LK
 IMP PUR ATT FOR
 FR LX(1,1) LX(2,1) LX(3,1) LX(4,1) LX(5,1) LX(6,1) LX(7,1) LX(8,2)
 LX(9,2)
 FR LX(10,2) LX(11,2) LX(12,3) LX(13,3) LX(14,3) LX(15,3) LX(16,3)
 LX(17,3) LX(18,4)
 FR LX(19,4) LX(20,4) LX(21,4)
 FR TD 1 1 TD 2 2 TD 3 3 TD 4 4 TD 5 5 TD 6 6 TD 7 7 TD 8 8 TD 9 9
 TD 10 10
 FR TD 11 11 TD 12 12 TD 13 13 TD 14 14 TD 15 15 TD 16 16 TD 17 17
 TD 18 18
 FR TD 19 19 TD 20 20 TD 21 21 TD 3 2 TD 1 4 TD 8 9 TD 14 15 TD 1 2
 TD 1 3
 FR TD 16 17 TD 12 15 TD 6 8 TD 18 21 TD 7 9 TD 18 20 TD 18 19 TD 2
 4 TD 4 3
 FR TD 10 11 TD 13 18 TD 7 21 TD 12 18 TD 7 10 TD 6 17 TD 8 15 TD
 11 13 TD 17 18
 FR TD 17 19 TD 17 20 TD 13 14 TD 17 21 TD 8 17 TD 8 14 TD 12 13 TD
 7 12 TD 3 8
 FR TD 2 5 TD 19 21 TD 5 9 TD 2 12 TD 9 19 TD 9 20 TD 7 18 TD 16 20
 TD 5 16 TD 16 19
 FR TD 10 19 TD 1 21 TD 16 18 TD 14 19 TD 16 21 TD 10 16 TD 11 17
 TD 11 12 TD 15 16
 FR TD 16 14 TD 21 14 TD 4 21 TD 3 14 TD 2 15 TD 8 21 TD 2 6 TD 10
 17 TD 10 21 TD 10 20
 FR TD 10 12 TD 11 21 TD 7 15 TD 11 18 TD 6 14 TD 10 18 TD 1 16 TD
 2 18 TD 8 12 TD 7 16
 FR TD 1 19 TD 5 6 TD 5 8
 PD
 OU ME=ML AM RS EF FS SS SC IT=250 TI PRI

น้ำหนักขององค์ประกอบ b(SE)

TI PRI Number of Iterations = 25 LISREL Estimates (Maximum Likelihood)

	LAMBDA-X	IMP	PUR	ATT	FOR
A67	0.23	- -	- -	- -	- -
(0.04)	5.92				
A68	0.18	- -	- -	- -	- -
	(0.05)				

	3.54			
A69	0.20 (0.04)	--	--	--
	4.62			
A70	0.29 (0.04)	--	--	--
	7.47			
A71	0.48 (0.04)	--	--	--
	13.16			
A72	0.57 (0.04)	--	--	--
	15.81			
A73	0.50 (0.03)	--	--	--
	15.11			
A74	--	0.49 (0.04)	--	--
		12.63		
A75	--	0.58 (0.04)	--	--
		14.28		
A76	--	0.46 (0.04)	--	--
		12.65		
A77	--	0.45 (0.04)	--	--
		12.54		
A78	--	--	0.52 (0.04)	--
			14.83	
A79	--	--	0.50 (0.03)	--
			14.73	
A80	--	--	0.57 (0.04)	--
			15.33	
A81	--	--	0.55 (0.03)	--
			16.48	
A82	--	--	0.45 (0.04)	--
			12.42	
A83	--	--	0.43 (0.03)	--
			12.67	
A84	--	--	--	0.96 (0.09)
				10.37
A85	--	--	--	0.50 (0.04)
				11.61
A86	--	--	--	0.56 (0.04)
				13.12
A87	--	--	--	0.46

(0.04)
11.71

สัมประสิทธิ์การพยากรณ์ (R^2)

Squared Multiple Correlations for X - Variables					
A67	A68	A69	A70	A71	A72
0.11	0.04	0.07	0.17	0.47	0.59
Squared Multiple Correlations for X - Variables					
A73	A74	A75	A76	A77	A78
0.57	0.44	0.52	0.42	0.41	0.55
Squared Multiple Correlations for X - Variables					
A79	A80	A81	A82	A83	A84
0.52	0.56	0.64	0.42	0.40	1.66
Squared Multiple Correlations for X - Variables					
	A85	A86	A87		
0.50	0.66	0.49			

แสดงผลการวิเคราะห์หองศ์ประกอบเชิงยืนยันของโมเดล

ด้านการวิเคราะห์หลักการ

Goodness of Fit Statistics
 Degrees of Freedom = 108
 Minimum Fit Function Chi-Square = 108.52 (P = 0.47)
 Normal Theory Weighted Least Squares Chi-Square = 105.17 (P = 0.56)
 Estimated Non-centrality Parameter (NCP) = 0.0
 90 Percent Confidence Interval for NCP = (0.0 ; 25.04)
 Minimum Fit Function Value = 0.31
 Population Discrepancy Function Value (F0) = 0.0
 90 Percent Confidence Interval for F0 = (0.0 ; 0.071)
 Root Mean Square Error of Approximation (RMSEA) = 0.0
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.026)
 P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00
 Expected Cross-Validation Index (ECVI) = 1.00
 90 Percent Confidence Interval for ECVI = (1.00 ; 1.07)
 ECVI for Saturated Model = 1.31
 ECVI for Independence Model = 30.67
 Chi-Square for Independence Model with 210 Degrees of Freedom = 10813.74
 Independence AIC = 10855.74
 Model AIC = 351.17
 Saturated AIC = 462.00
 Independence CAIC = 10958.05
 Model CAIC = 950.44
 Saturated CAIC = 1587.46
 Normed Fit Index (NFI) = 0.99
 Non-Normed Fit Index (NNFI) = 1.00
 Parsimony Normed Fit Index (PNFI) = 0.51

Comparative Fit Index (CFI) = 1.00
 Incremental Fit Index (IFI) = 1.00
 Relative Fit Index (RFI) = 0.98
 Critical N (CN) = 474.34
 Root Mean Square Residual (RMR) = 0.028
 Standardized RMR = 0.053
 Goodness of Fit Index (GFI) = 0.97
 Adjusted Goodness of Fit Index (AGFI) = 0.94
 Parsimony Goodness of Fit Index (PGFI) = 0.45

สัมประสิทธิ์คะแนนองค์ประกอบ(FS)

TI PRI

Factor Scores Regressions

KSI						
A67	A68	A69	A70	A71	A72	IMP
0.02	0.10	-0.06	0.07	0.17	0.33	
PUR	0.01	0.07	-0.04	0.02	0.01	0.07
ATT	-0.03	0.13	-0.08	-0.01	-0.01	-0.01
FOR	-0.07	0.23	-0.16	-0.10	-0.14	-0.21

KSI						
A73	A74	A75	A76	A77	A78	IMP
IMP	0.60	-0.06	0.23	-0.06	0.08	0.19
PUR	0.42	0.12	0.29	0.02	0.16	0.21
ATT	0.30	0.11	0.08	-0.11	-0.03	0.46
FOR	0.54	-0.45	0.14	-0.77	0.10	0.34

KSI						
A79	A80	A81	A82	A83	A84	IMP
0.00	-0.11	0.22	0.01	-0.03	0.16	
PUR	0.04	-0.02	0.32	-0.04	-0.08	0.25
ATT	0.15	0.05	0.56	-0.05	0.10	0.24
FOR	0.34	-0.20	-0.03	-0.63	-1.28	2.71

KSI			
A85	A86	A87	IMP
IMP	0.06	0.09	-0.21
PUR	0.07	0.13	-0.19
ATT	-0.01	0.05	-0.07
FOR	-0.13	0.93	0.28

ความคลาดเคลื่อนของตัวบ่งชี้ (e)

THETA-DELTA					
A67	A68	A69	A70	A71	A72
0.44					
(0.03)					
13.11					
A68	0.28	0.70			

	(0.03)	(0.05)					
	8.23	13.27					
A69	0.20	0.42	0.55				
	(0.03)	(0.04)	(0.04)				
	6.98	10.38	13.26				
A70	0.17	0.23	0.21	0.43			
	(0.03)	(0.03)	(0.03)	(0.03)			
	6.80	6.91	7.25	12.88			
A71	- -	-0.06	- -	- -	0.26		
		(0.02)			(0.02)		
		-3.49			10.55		
A72	- -	-0.04	- -	- -	0.04	0.22	
		(0.02)			(0.02)	(0.02)	
		-2.39			2.32	9.34	
A73	- -	- -	- -	- -	- -	- -	
A74	- -	- -	-0.03	- -	0.03	0.06	
	(0.01)		(0.02)	(0.02)			
	-2.33			1.77	3.75		
A75	- -	- -	- -	- -	0.05	- -	
					(0.02)		
					2.58		
A76	- -	- -	- -	- -	- -	- -	
A77	- -	- -	- -	- -	- -	- -	
A78	- -	-0.04	- -	- -	- -	- -	
		(0.02)					
	-2.47						
A79	- -	- -	- -	- -	- -	- -	
A80	- -	- -	0.04	- -	- -	0.03	
			(0.01)			(0.01)	
			2.80			2.11	
A81	- -	-0.04	- -	- -	- -	- -	
		(0.01)					
		-3.00					
A82	0.02	- -	- -	- -	-0.03	- -	
	(0.01)				(0.01)		
	1.82				-2.28		
A83	- -	- -	- -	- -	- -	-0.03	
						(0.01)	
						-2.31	
A84	- -	-0.03	- -	- -	- -	- -	
		(0.02)					
		-1.82					
A85	0.03	- -	- -	- -	- -	- -	
	(0.02)						
	1.72						
A86	- -	- -	- -	- -	- -	- -	
A87	0.05	- -	- -	0.03	- -	- -	
	(0.02)			(0.01)			
	3.14			2.34			

THETA-DELTA

A73	A74	A75	A76	A77	A78	
A73	0.19 (0.02) 9.16					
A74	- -	0.31 (0.03) 10.63				
A75	-0.07 (0.02) -4.42	0.09 (0.02) 4.08	0.31 (0.03) 9.86			
A76	0.03 (0.01) 2.39	- -	- -	0.29 (0.03) 11.51		
A77	- - (0.02) 4.86	- - (0.03) 11.74	- -	0.09 0.29	0.29	
A78	-0.03 (0.01) -2.44	0.02 (0.01) 1.70	- - (0.02) 2.76	0.04 (0.02) 2.56	0.04 (0.02) 9.54	0.22
A79	- -	- -	- - (0.01) 2.41	- - (0.02)	0.06	0.04
A80	- -	3.98 -0.03 (0.01) -2.34	- -	- -	- -	- -
A81	-0.03 (0.01) -2.85	-0.07 (0.01) -4.81	- - (0.01)	- -	- -	0.07
A82	-0.02 (0.01) -1.51	- -	- -	0.00 (0.01) -0.11	- -	- -
A83	- -	-0.03 (0.01) -1.92	- -	0.06 (0.02) 3.81	0.05 (0.01) 3.28	- -
A84	-0.05 (0.01) -3.27	- -	- -	0.05 (0.02) 2.33	-0.01 (0.02) -0.35	-0.03 (0.02) -2.09
A85	- -	- -	-0.06 (0.01) -3.87	0.08 (0.02) 4.18	- -	- -
A86	- -	- -	-0.06 (0.02) -3.69	0.05 (0.02) 3.00	- -	- -
A87	0.05 (0.01) 4.12	0.03 (0.01) 2.49	- -	0.08 (0.02) 4.18	0.04 (0.01) 2.67	- -

THETA-DELTA

A79	A80	A81	A82	A83	A84
A79	0.23 (0.02) 10.83				

A80	0.05 (0.01) 3.56	0.25 (0.02) 10.30					
A81	- -	0.05 (0.02) 3.18	0.17 (0.02) 8.46				
A82	- - (0.02)	0.06 (0.02)	0.05 (0.02)	0.28			
	3.73	3.17	11.55				
A83	- - (0.02)	- - (0.02)	- -	0.10	0.28		
				5.91	12.28		
A84	-0.06 (0.01) -3.86	- -	- -	0.07 (0.02) 3.91	0.11 (0.02) 5.14	-0.37 (0.17) -2.17	
A85	- -	-0.04 (0.01) -3.03	- -	0.08 (0.02) 4.07	0.12 (0.02) 6.05	-0.21 (0.06) -3.43	
A86	- - (0.02)	- - (0.02)	- - (0.06)	0.08	0.10	-0.32	
	4.24	5.20	-5.09				
A87	- -	-0.03 (0.01) -2.61	- -	0.05 (0.02) 3.24	0.09 (0.02) 4.89	-0.24 (0.05) -4.36	

THETA-DELTA

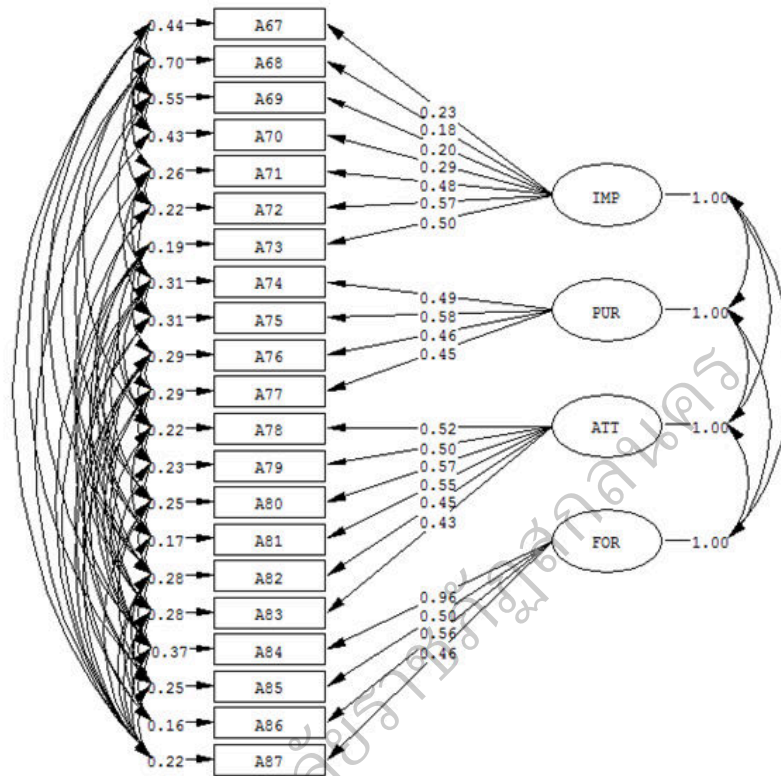
	A85	A86	A87
A85	0.25 (0.03) 7.16		
A86	- -	0.16 (0.04) 4.57	
A87	0.08 (0.03) 2.88	- -	0.22 (0.03) 7.63

ค่าสัมประสิทธิ์สหสัมพันธ์ระหว่างตัวแปร

PHI

	IMP	PUR	ATT	FOR
IMP	1.00			
PUR	0.88	1.00		
ATT	0.78	0.88	1.00	
FOR	0.42	0.50	0.51	1.00

แสดงผลการวิเคราะห์องค์ประกอบเชิงยืนยันของโมเดล
ด้านการวิเคราะห์หลักการ



Chi-Square=105.17, df=108, P-value=0.55911, RMSEA=0.000

แสดงผลการวิเคราะห์ข้อมูล ทักษะการคิดวิเคราะห์ของนักเรียน

```
The following lines were read from file
C:\Users\Administrator\Desktop\ANT\ANT.LPJ:
TI ANT
ANT
!DA NI=103 NO=355 NG=1 MA=CM
SY='C:\Users\Administrator\Desktop\ANT\ANT.dsf' NG=1
SE88 89 90 91 92 93 94 95 96 97 98 99 100 /
MO NY=13 NK=1 NE=3 LY=FU,FI BE=FU,FI GA=FU,FI PH=SY,FR PS=DI,FR
TE=SY,FI
LECOA REL PRI
LKANT
FI PH(1,1)
FR LY(2,1) LY(3,1) LY(4,1) LY(6,2) LY(7,2) LY(8,2) LY(9,2)
LY(11,3) LY(12,3)
FR LY(13,3) GA(1,1) GA(2,1) GA(3,1)
VA 0.38 LY(1,1)
VA 0.46 LY(5,2)
VA 0.32 LY(10,3)
```

VA 1.00 PH(1,1)
 FR TE 1 1 TE 2 2 TE 3 3 TE 4 4 TE 5 5 TE 6 6 TE 7 7 TE 8 8 TE 9 9
 TE 10 10 TE 11 11
 FR TE 12 12 TE 13 13 TE 9 8 TE 13 7 TE 2 1 TE 11 3 TE 11 2 TE 6 3
 TE 1 10 TE 10 12
 FR TE 10 11 TE 10 6 TE 12 1 TE 1 4 TE 12 6 TE 13 5 TE 2 10 TE 7 5
 TE 11 7 TE 3 2 TE 5 3
 FR TE 10 5 TE 6 5 TE 6 7 TE 3 12 TE 11 5 TE 1 3 TE 10 13 TE 11 1
 TE 13 4 TE 7 4 TE 6 1
 FR TE 7 2 TE 5 1 TE 10 7 TE 10 4 TE 11 12 TE 4 2 TE 13 2 TE 12 7
 TE 4 6 TE 3 10 TE 13 6
 PD
 OU ME=ML AM PC RS EF FS SS SC IT=250
 TI ANT

น้ำหนักขององค์ประกอบ b(SE)

TI ANT
 Number of Iterations = 41
 LISREL Estimates (Maximum Likelihood)

น้ำหนักองค์ประกอบขององค์ประกอบย่อย

LAMBDA-Y			
	COA	REL	PRI
	-----	-----	-----
DIS	0.38	- -	- -
DIF	0.76	- -	- -
(0.13)			
	5.94		
KEY	0.38	- -	- -
(0.04)			
	9.72		
SUM	0.88	- -	- -
(0.15)			
	5.90		
UND	- -	0.46	- -
EXA	- -	0.39	- -
(0.03)			
		12.03	
CAU	- -	0.72	- -
(0.11)			
		6.64	
COM	- -	0.27	- -
(0.04)			
		7.21	
DET	- -	0.27	- -
(0.04)			
		7.21	
IMP	- -	- -	0.32

PUR	- -	- -	0.25
(0.03)			
			8.34
ATT	- -	- -	0.27
(0.03)			
			8.44
FOR	- -	- -	0.40
(0.05)			
			8.55

น้ำหนักองค์ประกอบขององค์ประกอบหลัก

GAMMA	
	ANT

COA	0.45
(0.08)	
	5.57
REL	0.88
(0.06)	
	14.03
PRI	1.35
(0.14)	
	9.69

สัมประสิทธิ์การพยากรณ์ (R^2)

สัมประสิทธิ์การพยากรณ์ (R^2) องค์ประกอบย่อย

Squared Multiple Correlations for Y - Variables					
DIS	DIF	KEY	SUM	UND	EXA
-----	-----	-----	-----	-----	-----
0.28	0.91	0.24	1.76	0.36	0.29
Squared Multiple Correlations for Y - Variables					
CAU	COM	DET	IMP	PUR	ATT
-----	-----	-----	-----	-----	-----
1.17	0.14	0.14	0.82	0.34	0.41
Squared Multiple Correlations for Y - Variables					
	FOR				

	0.88				

สัมประสิทธิ์การพยากรณ์ (R^2) องค์ประกอบหลัก

Squared Multiple Correlations for Structural Equations		
COA	REL	PRI
-----	-----	-----
0.39	1.49	1.01
Squared Multiple Correlations for Reduced Form		
COA	REL	PRI
-----	-----	-----
0.39	1.49	1.01

แสดงผลการวิเคราะห์องค์ประกอบเชิงยืนยันของโมเดล

ทักษะการคิดวิเคราะห์ของนักเรียน

Goodness of Fit Statistics
 Degrees of Freedom = 21
 Minimum Fit Function Chi-Square = 17.60 (P = 0.67)
 Normal Theory Weighted Least Squares Chi-Square = 16.62 (P = 0.73)
 Estimated Non-centrality Parameter (NCP) = 0.0
 90 Percent Confidence Interval for NCP = (0.0 ; 8.40)
 Minimum Fit Function Value = 0.050
 Population Discrepancy Function Value (F0) = 0.0
 90 Percent Confidence Interval for F0 = (0.0 ; 0.024)
 Root Mean Square Error of Approximation (RMSEA) = 0.0
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.034)
 P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00
 Expected Cross-Validation Index (ECVI) = 0.45
 90 Percent Confidence Interval for ECVI = (0.45 ; 0.48)
 ECVI for Saturated Model = 0.51
 ECVI for Independence Model = 17.94
 Chi-Square for Independence Model with 78 Degrees of Freedom =
 6326.35
 Independence AIC = 6352.35
 Model AIC = 156.62
 Saturated AIC = 182.00
 Independence CAIC = 6415.69
 Model CAIC = 497.67
 Saturated CAIC = 625.36
 Normed Fit Index (NFI) = 1.00
 Non-Normed Fit Index (NNFI) = 1.00
 Parsimony Normed Fit Index (PNFI) = 0.27
 Comparative Fit Index (CFI) = 1.00
 Incremental Fit Index (IFI) = 1.00
 Relative Fit Index (RFI) = 0.99
 Critical N (CN) = 784.06
 Root Mean Square Residual (RMR) = 0.0099
 Standardized RMR = 0.036
 Goodness of Fit Index (GFI) = 0.99
 Adjusted Goodness of Fit Index (AGFI) = 0.97
 Parsimony Goodness of Fit Index (PGFI) = 0.23

สัมประสิทธิ์คะแนนองค์ประกอบ (FS)

TI ANT						
Factor Scores Regressions						
ETA						
DIS	DIF	KEY	SUM	UND	EXA	COA
-0.91	1.10	-0.61	3.03	-0.51	-0.39	
REL	-1.35	0.72	-0.69	1.61	0.01	-0.29
PRI	-2.40	1.11	-1.39	1.81	0.46	-0.25
ETA						
CAU	COM	DET	IMP	PUR	ATT	
COA	1.11	-0.49	-0.49	-0.06	-0.31	-0.54

REL	1.32	-0.62	-0.62	1.26	-0.06	-0.39
PRI	3.82	-0.82	-0.82	1.74	0.40	-0.98
	ETA					
		FOR				

	COA	0.63				
	REL	1.08				
	PRI	1.02				

ความคลาดเคลื่อนของตัวบ่งชี้ (e)

THETA-EPS

DIS	DIF	KEY	SUM	UND	EXA	DI
-----	-----	-----	-----	-----	-----	-----
0.19						
	(0.02)					
	10.19					
DIF	0.05	0.03				
	(0.02)	(0.06)				
	2.69	0.48				
KEY	0.11	0.03	0.25			
	(0.02)	(0.01)	(0.02)			
	6.85	2.86	12.05			
SUM	-0.03	-0.18	--	-0.17		
	(0.02)	(0.06)		(0.07)		
	-1.81	-3.15		-2.59		
UND	0.08	--	0.10	--	0.19	
	(0.01)		(0.02)		(0.02)	
	5.39		6.42		9.39	
EXA	0.08	--	0.13	0.01	0.12	0.20
	(0.01)		(0.01)	(0.01)	(0.02)	(0.02)
	6.19		8.66	0.62	6.60	10.18
CAU	--	-0.12	--	-0.14	-0.03	0.01
		(0.03)		(0.03)	(0.02)	(0.02)
		-4.05		-4.03	-1.27	0.30
COM	--	--	--	--	--	--
DET	--	--	--	--	--	--
IMP	0.06	-0.01	0.04	-0.05	-0.07	-0.06
	(0.01)	(0.02)	(0.01)	(0.02)	(0.02)	(0.02)
	4.51	-0.71	2.95	-2.62	-3.43	-3.13
PUR	0.08	0.07	0.13	--	-0.02	--
	(0.01)	(0.01)	(0.01)		(0.01)	
	5.92	6.00	8.79		-1.94	
ATT	0.05	--	0.08	--	--	0.03
	(0.01)		(0.01)			(0.01)
	3.91		6.01			3.84
FOR	--	-0.09	--	-0.12	-0.14	-0.09
		(0.02)		(0.02)	(0.03)	(0.02)
		-3.86		-4.93	-5.40	-3.55
	THETA-EPS					
CAU	COM	DET	IMP	PUR	ATT	CAU
-----	-----	-----	-----	-----	-----	-----
-0.04						
(0.06)						
-0.71						

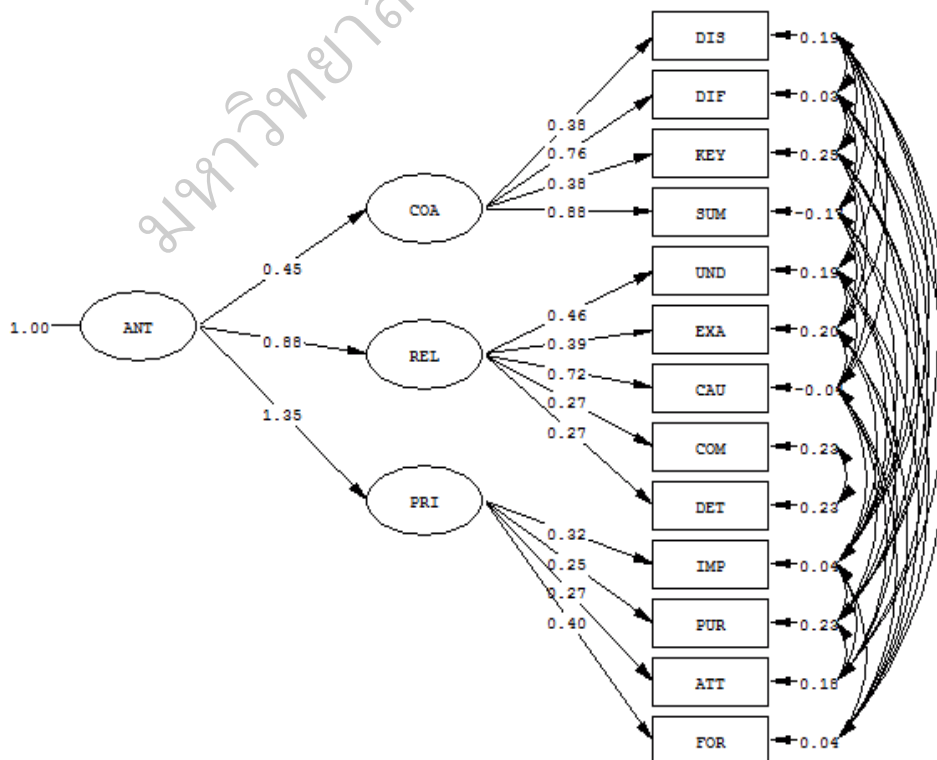
COM	- -	0.23 (0.02)					
		12.86					
DET	- -	0.23 (0.02)	0.23 (0.02)				
		12.85	12.86				
IMP	-0.18 (0.05)	- -	- -	0.04 (0.03)			
	-3.48			1.25			
PUR	-0.13 (0.03)	- -	- -	0.01 (0.02)	0.23 (0.02)		
	-4.22			0.74	11.46		
ATT	-0.11 (0.03)	- -	- -	-0.02 (0.02)	0.10 (0.02)	0.18 (0.02)	
	-3.40			-0.91	6.34	10.12	
FOR	-0.20 (0.08)	- -	- -	-0.09 (0.02)	- -	- -	- -
	-2.69			-3.63			

THETA-EPS

FOR	

FOR	0.04 (0.03) 1.21

แสดงผลการวิเคราะห์องค์ประกอบเชิงยืนยันของโมเดล
ทักษะการคิดวิเคราะห์ของนักเรียน



Chi-Square=16.62, df=21, P-value=0.73389, RMSEA=0.000