

**Table S1.** U and inverted U test.

Variables	Slope at Lower Bound	Slope at Upper Bound	Turning Point [Data Range]	U Test (t-Value)	Result
MVAIC × MVAIC	0.0165 ***	Dependent Variable: Return on Assets (ROA)		10.83 ***	Inverted U
		−0.0076 ***	13.2268 [−2.979 20.707]		
MVAIC × MVAIC	0.1845 ***	Dependent Variable: Tobin’s Q (TQ)		09.67 ***	Inverted U
		−0.1134 ***	11.6898 [−2.979 20.707]		

**Note:** We estimate the slope, turning or extreme point, and t-value using STATA’s “utest” command. The symbols \*\*\* indicates the p values at 1%. The measurement and description of variables are presented in Appendix A.

**Table S2.** Simple slope test.

	Linear Relationship				Curvilinear Relationship			
	ROA		TQ		ROA		TQ	
	Slope	t-Stat	Slope	t-Stat	Slope	t-Stat	Slope	t-Stat
Moderation of Group Affiliation								
at Group = 1	0.00473	16.64 ***	0.05136	9.46 ***	0.00827	20.45 ***	0.10996	12.34 ***
at Group = 0	0.00558	17.51 ***	0.03818	7.17 ***	0.00985	23.64 ***	0.08138	11.38 ***
Moderation of BIG4 Auditors								
at BIG4 = 1	0.00720	15.48 ***	0.08344	7.93 ***	0.01276	19.75 ***	0.21194	14.17 ***
at BIG4 = 0	0.00456	18.94 ***	0.03297	8.15 ***	0.00814	25.20 ***	0.06198	10.68 ***
Joint moderating effects								
at Group = 1 and BIG4 =1	0.00751	12.05 ***	0.10395	6.86 ***	0.01242	16.01 ***	0.22026	10.28 ***
at Group = 1 and BIG4 =0	0.00384	12.61 ***	0.03456	6.70 ***	0.00682	15.4 ***	0.07249	8.22 ***
at Group = 0 and BIG4 =1	0.00688	10.49 ***	0.06283	4.52 ***	0.01319	12.91 ***	0.20419	9.76 ***
at Group = 0 and BIG4 =0	0.00521	14.89 ***	0.03115	5.50 ***	0.00909	20.7 ***	0.05432	7.42 ***
Moderated moderation of BIG4 on Group Affiliation								
BIG4 Auditors = 1								
at Group = 1	0.00751	12.05 ***	0.10395	6.86 ***	0.01242	16.01 ***	0.22026	10.28 ***
at Group = 0	0.00688	10.49 ***	0.06283	4.52 ***	0.01319	12.91 ***	0.20419	9.76 ***
BIG4 Auditors = 0								
at Group = 1	0.00384	12.61 ***	0.03456	6.70 ***	0.00682	15.40 ***	0.07249	8.22 ***
at Group = 0	0.00521	14.89 ***	0.03115	5.50 ***	0.00909	20.70 ***	0.05432	7.42 ***

**Note:** The table reports the slope test for checking the moderating effects. The symbols \*\*\*, indicates the statistical significance at 1%. The significance of slope is one of the conditions for moderating effect. The measurement and description of variables are presented in Appendix A.

**Table S3.** Slope difference test.

	Linear Relationship						Curvilinear Relationship					
	ROA			TQ			ROA			TQ		
	$\Delta$ Slope	SE $\Delta$ Slope	t-Stat	$\Delta$ Slope	SE $\Delta$ Slope	t-Stat	$\Delta$ Slope	SE $\Delta$ Slope	t-Stat	$\Delta$ Slope	SE $\Delta$ Slope	t-Stat
Moderation of Group Affiliation												
Group = 0 vs. Group = 1	0.00085	0.00040	2.12 **	-0.01318	0.00712	-1.85 *	0.00157	0.00056	2.82 ***	-0.02858	0.01111	-2.57 **
Moderation of BIG4 Auditors												
BIG4 = 0 vs. BIG4 = 1	-0.00263	0.00050	-5.29 ***	-0.05047	0.01090	-4.63 ***	-0.00462	0.00070	-6.62 ***	-0.14996	0.01578	-9.50 ***
Joint moderating effects												
(Group = 1 & BIG4 = 0) vs. (Group = 1 & BIG4 = 1)	-0.00366	0.00067	-5.43 ***	-0.06940	0.01562	-4.44 ***	-0.00559	0.00087	-6.42 ***	-0.14777	0.02283	-6.47 ***
(Group = 0 & BIG4 = 1) vs. (Group = 1 & BIG4 = 1)	-0.00062	0.00088	-0.71	-0.04112	0.02021	-2.04 **	0.00077	0.00126	0.61	-0.01607	0.03000	-0.54
(Group = 0 & BIG4 = 0) vs. (Group = 1 & BIG4 = 1)	-0.00229	0.00070	-3.28 ***	-0.07281	0.01596	-4.56 ***	-0.00333	0.00088	-3.79 ***	-0.16594	0.02245	-7.39 ***
(Group = 0 & BIG4 = 1) vs. (Group = 1 & BIG4 = 0)	0.00304	0.00070	4.31 ***	0.02827	0.01448	1.95 **	0.00636	0.00110	5.79 ***	0.13170	0.02249	5.86 ***
(Group = 0 & BIG4 = 0) vs. (Group = 1 & BIG4 = 0)	0.00137	0.00045	3.08 ***	-0.00341	0.00723	-0.47	0.00227	0.00061	3.73 ***	-0.01817	0.01110	-1.64 *
(Group = 0 & BIG4 = 0) vs. (Group = 0 & BIG4 = 1)	-0.00167	0.00072	-2.32 **	-0.03168	0.01484	-2.13 **	-0.00410	0.00109	-3.75 ***	-0.14987	0.02211	-6.78 ***
Moderated moderation of BIG4 on Group Affiliation												
Group Affiliation = 1												
BIG4 = 1 vs. BIG4 = 0	0.00366	0.00067	5.43 ***	0.06940	0.01562	4.44 ***	0.00559	0.00087	6.42 ***	0.14777	0.02283	6.47 ***
Group Affiliation = 0												
BIG4 = 1 vs. BIG4 = 0	0.00167	0.00072	2.32 **	0.03168	0.01484	2.13 **	0.00410	0.00109	3.75 ***	0.14987	0.02211	6.78 ***

**Note:** The table reports the slope difference test, the additional condition for moderating effects. The statistical significance of t-stat indicates the moderating effects and is calculated as the ratio of  $\Delta$ Slope and SE $\Delta$ Slope. The symbols \*\*\*, \*\*, and \* indicate the statistical significance at 1%, 5%, and 10%, respectively. The measurement and description of variables are presented in Appendix A.