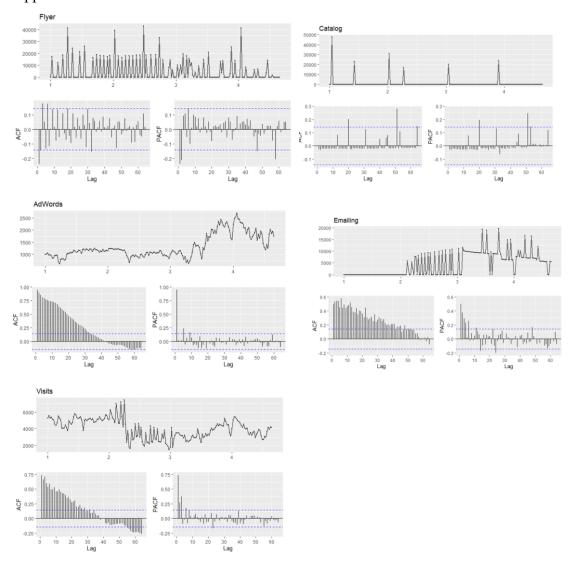
## 7. Appendix

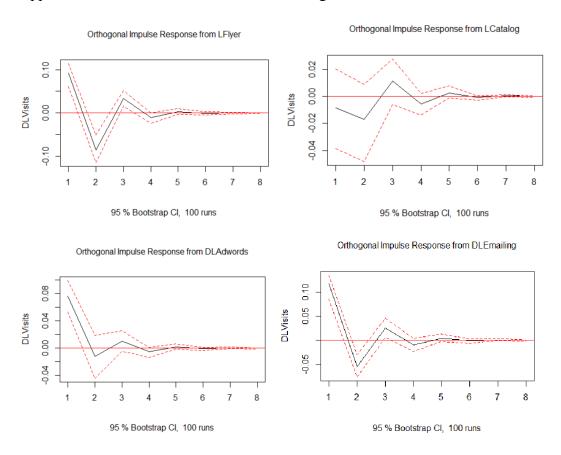
Appendix 7.1: ACF and PACF Plot for the Five Variables



Appndix 7.2: Summary of Var Model

	Dependent variable:				
	LFlyer (1)	LCatalog (2)	DLAdwords (3)	DLEmailing (4)	DLVisits (5)
LFlyer.l1	-0.178** (0.081)		-0.004* (0.002)		
LCatalog.l1	-0.134 (0.179)	0.003 (0.073)	-0.004 (0.005)		-0.010 (0.009)
DLAdwords.11	-4.362 (3.354)	-1.080 (1.372)	-0.068 (0.089)		-0.031 (0.162)
DLEmailing.l1	-0.061 (0.123)	-0.033 (0.050)	0.003 (0.003)	-0.580*** (0.100)	-0.011* (0.006)
DLVisits.11	1.403 (2.417)	1.962** (0.989)	0.010 (0.064)	2.900 (1.960)	-0.149 (0.117)
const	3.374*** (0.393)	0.248 (0.161)	0.015 (0.010)	0.533* (0.319)	0.041** (0.019)
Observations R2 Adjusted R2 Residual Std. Error (df = 183) F Statistic (df = 5; 183)	189 0.045 0.019 4.309 1.737	189 0.052 0.026 1.762 1.998*	0.115 1.230	189 0.293 0.274 3.494 15.166***	11.318***
Note:			*p<0.1	; **p<0.05;	***p<0.01

Appendix 7.3: IRF Plots for the Four Marketing Variables



Appendix 7.4: Long-Term Effort of the Four Marketing Tools

	Flyer	Catalog	AdWords	Emailing
Period				
1	0.092	0	0.076	0.117
2	0	0	0	0
3	0.033	0.011	0.01	0.025
4	0	0	0	0
5	0	0.0025	0.0022	0
Cumulative	0.125	0.0136	0.088	0.142

Appendix 7.5: Summary of beginning level, potential stickiness, responsiveness to each marketing tools, conversion for leads, quotes, and orders for both online and offline channels

Item	Online	Online	Offline	Offline	Online	Offline
	Leads	Quotes	Leads	Quotes	Orders	Orders
beginning level	0.206	0.048	0.118	0.226		
potential	0.794	0.952	0.882	0.774		
stickiness	0.803	0.937	0.532	0.862		
Responsiveness	0.0082	-0.0005	-0.0001	-0.0004	0.0066	0.0125
to Flyer						
Responsiveness	0.0063	-0.0004	-0.0001	-0.0003	0.005	0.0173
to Catalog						
Responsiveness	0.0431	-0.0138	-0.0044	0.0167	0.0268	-0.1185
to AdWords						
Responsiveness	-0.0162	-0.0077	-0.0005	0.0032	-0.0003	-0.0088
to Emailing						
Conversion	0.0629	0.004	0.0887	-0.0109		

Appendix 7.6: Summary of Appeal of Each Marketing Tools

	Online Leads	Online Quotes	Offline Leads	Offline Quotes
appeal_Flyer	0.002079	0	0	0
appeal_Catalog	0.001597	0	0	0
appeal_Adwords	0.010927	-0.00083	-0.00074	-0.00102
appeal_Emailing	-0.00411	-0.00047	0	-0.0002

Appendix 7.7 Forecast of Online Order

	Start	New	Gain	LRGain	Conversion
Flyer	4790	5843.8	1053.8	/	/
Catalog	854	819.84	-34.16	/	/
Adwords	1325	1086.5	-238.5	/	/
Emailing	4320	4320	0	/	/
Online_Leads	0.206	0.204526	-0.00715	-0.31655	-0.01991
Online_Quotes	0.048	0.048128	0.002659	0.033197	0.000133
Online_Order	85.69	85.32999	-0.0042	-0.00771	/

Appendix 7.8: Forecast of Offline Order

	Start	New	Gain	LRGain	Conversion
Flyer	4790	5843.8	1053.8	/	/
Catalog	854	819.84	-34.16	/	/
Adwords	1325	1086.5	-238.5	/	/
Emailing	4320	4320	0	/	/
Offline_Leads	0.118	0.118101	0.000858	0.037953	0.003366
Offline_Quotes	0.226	0.225237	-0.00338	-0.04214	0.000459
Offline_Order	85.69	87.88525	0.025619	0.047032	/