Image size	256×256		
Voxel size	1.0mm×1.0mm×5.0 mm		
TR	100 ms		
TE	3 ~ 69 ms (6ms increment)		
Flip angle	20°	90°	
Number of echo	12	12	
Effective scan time	26 s	26 s	

Image size	256×256				
Voxel size	1.0mm×1.0mm×5.0 mm				
TR	6 ms				
TE	3 ms				
Flip angle	10°				
N (Number of echo = N)	5	6	7	12	
Middle F-state	F2	F2	F3	F5	
Gradient spoiler shift	40 lines	40 lines	34 lines	20 lines	
Effective scan time (Exclude dummy scan)	8 s	9 s	11 s	18 s	

(a) Multi-echo GRE parameters

(b) ka-SPGR parameters