\\USER\Feinberglab\Test\0317Test\ep2d_M2P2_OVS_flash_iso55_pkx

Voxel size: 0.5×0.5×0.6 mm Rel. SNR: 1.00

PAT: 2

TA: 8:36

USER: ep2d_bold_OVS_flash

		Sat. region 1	
Properties		—— Thickness	110 mm
Prio Recon	Off	Position	L0.0 A43.2 H1.5
Before measurement		Orientation	C > T2.0
After measurement		Sat. region 2	0 > 12.0
Load to viewer	On		110 mm
Inline movie	Off	Thickness	110 mm
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
segments	Oli	Table position	Н
	Off		
Auto open inline display		Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation	0"	System	
Wait for user to start	Off	E17	On
Start measurements	single	E18	On
Routine		E19	On
Slice group 1	50	E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	L1.2 P44.6 H15.4	E03	On
Orientation	Transversal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	140 mm	E08	On
FoV phase	50.0 %	E09	On
Slice thickness	0.55 mm	E10	On
TR	4000 ms	E11	On
TE	28 ms	E12	On
Averages	1	E13	On
Concatenations		E14	_
	1		On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S-C-T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
		Transversal	F >> H
Averaging mode	Long term	Coil Combine Mode	Sum of Squares
Reconstruction	Magnitude	AutoAlign	
Measurements	126	Auto Coil Select	Default
Delay in TR	0 ms	Auto Coli Select	
Multiple series	Off	Shim mode	Standard
		Adjust with body coil	Off
Resolution		Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
Phase resolution	100 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	6/8	Adjustment Tolerance	Auto
Interpolation	Off	Adjust volume	Auto
DAT I	OD 4 DD 4	! Position	1 40 7 D07 4 U44 7
PAT mode	GRAPPA		L12.7 P37.1 H14.7
Accel. factor PE	2	! Orientation	T > C-15.0
Ref. lines PE	24	! Rotation	0.00 deg
Reference scan mode	Separate	! R >> L	100 mm
Distortion Corr	O#	····· ! A >> P	70 mm
Distortion Corr.	Off Off	! F >> H	48 mm
Prescan Normalize	Off	Physio	
Raw filter	On		Mana
Elliptical filter	Off	1st Signal/Mode	None
Hamming	Off	BOLD	
Geometry		GLM Statistics	Off
Multi-slice mode	Interleaved	Dynamic t-maps	Off
Series	Ascending	Starting ignore meas	0
		Ignore after transition	0
		1 -3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	•

Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	On On 4.00 20 Baseline Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Allowed 782 Hz/Px Off 1.08 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 1 0 1 1 1 1 7680 3 1.00 123 On

USER: ep2d_bold_OVS_flash

Voxel size: 0.5×0.5×0.6 mm Rel. SNR: 1.00

PAT: 2

TA: 2:04

17. 2.04	VOXC1 3120: 0.0X0.0X0.0 111111	1.00 GGER. C	
		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A43.2 H1.5
Before measurement		Orientation	C > T2.0
After measurement		Sat. region 2	0 > 12.0
Load to viewer	On	Thickness	110 mm
Inline movie	Off	Position	L0.0 P136.2 F35.7
Auto store images	On	Orientation	C > T14.7
Load to stamp segments	Off	Special sat.	None
Load images to graphic	Off	opeciai sat.	
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		Custom	
Wait for user to start	Off	System	0.5
Start measurements	single	E17	On
Douting		E18	On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	L1.2 P44.6 H15.4	E03	On
Orientation	Transversal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	140 mm	E08	On
FoV phase	50.0 %	E09	On
Slice thickness	0.55 mm	E10	On
TR	4000 ms	E11	On
TE	34 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S-C-T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
rai suppi.	rai sai.	Transversal	F >> H
Averaging mode	Long term	Coil Combine Mode	Sum of Squares
Reconstruction	Magnitude	AutoAlign	Sulli of Squares
Measurements	28	Auto Coil Select	Default
Delay in TR	0 ms	Auto Coli Select	Delauit
Multiple series	Off	Shim mode	Standard
Desclution		Adjust with body coil	Off
Resolution	050	Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
Phase resolution	100 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	6/8	Adjustment Tolerance	Auto
Interpolation	Off	Adjust volume	
PAT mode	GRAPPA	! Position	L12.7 P37.1 H14.7
Accel, factor PE	2	! Orientation	T > C-15.0
Ref. lines PE	24	! Rotation	0.00 deg
Reference scan mode	Separate	! R >> L	100 mm
		! A >> P	70 mm
Distortion Corr.	Off	! F >> H	48 mm
Prescan Normalize	Off	ı	
Raw filter	On	Physio	
Elliptical filter	Off	1st Signal/Mode	None
Hamming	Off	BOLD	
Geometry		GLM Statistics	Off
Geometry Multiplies made	Interlegyed	Dynamic t-maps	Off
Multi-slice mode Series	Interleaved	Starting ignore meas	0
	Ascending	Ignore after transition	0
1		2/42	· ·

Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[19] Meas[19] Meas[20] Motion correction Spatial filter	On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active Active Active Active Off Off
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------

ocquence	-	
Bandw Free e	netric echo	Off Off 782 Hz/Px Off 1.4 ms
	se type nt mode	128 Normal Fast On
MB Nu Dumm FOV S SkewT OVS fl SER N Spoil fa Skew I Sat RF Dual C Echo I	yScan Number hift Number ype(1ff) ash(1on) lumber actor Direction 90 duration on(1) Distance easurements	7680 2 1 1 0 1 1 1 1 5120 3 1.00 25 On

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

PAT: 2

TA: 2:04

Properties Prio Recon Off Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic Off segments	Sat. region 1 Thickness 110 mm Position L0.0 A43.2 H1.5 Orientation C > T2.0 Sat. region 2 Thickness 110 mm Position L0.0 P136.2 F35.7
Prio Recon Off Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic Off	Thickness 110 mm Position L0.0 A43.2 H1.5 Orientation C > T2.0 Sat. region 2 Thickness 110 mm
Before measurement After measurement Load to viewer Inline movie Auto store images Con Load to stamp segments Coff Load images to graphic Off	Position L0.0 A43.2 H1.5 Orientation C > T2.0 Sat. region 2 Thickness 110 mm
After measurement Load to viewer Inline movie Off Auto store images Con Load to stamp segments Coff Load images to graphic Off	Orientation C > T2.0 Sat. region 2 Thickness 110 mm
Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic Off	Sat. region 2 Thickness 110 mm
Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic Off	Thickness 110 mm
Auto store images On Load to stamp segments Off Load images to graphic Off	
Load to stamp segments Off Load images to graphic Off	1 1 0311011
Load images to graphic Off	Orientation C > T14.7
	Special sat. None
segments	Opecial Sat. None
	Table position H
Auto open inline display Off	Table position 0 mm
Start measurement without On	Inline Composing Off
further preparation	Ourter
Wait for user to start Off	System
Start measurements single	E17 On
1	E18 On
Routine	E19 On
Slice group 1	E20 On
Slices 50	E01 On
Dist. factor 50 %	E02 On
Position L1.2 P44.6 H15.	
Orientation Transversal	E04 On
Phase enc. dir. A >> P	E05 On
Rotation 0.00 deg	E06 On
Phase oversampling 0 %	E07 On
FoV read 192 mm	E08 On
FoV phase 50.0 %	E09 On
Slice thickness 0.75 mm	E10 On
TR 4000 ms	E11 On
TE 27 ms	E12 On
Averages 1	E13 On
Concatenations 1	E14 On
Filter None	E15 On
Coil elements E01-20	E16 On
Contrast	Positioning mode FIX
MTC Off	MSMA S - C - T
Flip angle 70 deg	Sagittal R >> L
Fat suppr. Fat sat.	Coronal A >> P
Averaging mode Long term	Transversal F >> H
Reconstruction Magnitude	Coil Combine Mode Sum of Squares
Measurements 28	AutoAlign
Delay in TR 0 ms	Auto Coil Select Default
Multiple series Off	Shim mode Standard
	Adjust with body coil Off
Resolution	Confirm freq. adjustment Off
Base resolution 256	Assume Silicone Off
Phase resolution 100 %	? Ref. amplitude 1H 0.000 V
Phase partial Fourier 6/8	Adjustment Tolerance Auto
Interpolation Off	Adjust volume
PAT mode GRAPPA	! Position L12.7 P37.1 H14.7
PAT mode GRAPPA Accel. factor PE 2	! Orientation T > C-15.0
Ref. lines PE 24	! Rotation 0.00 deg
	! R >> L 100 mm
Reference scan mode Separate	! ! A >> P 70 mm
Distortion Corr. Off	
Prescan Normalize Off	! F >> H 48 mm
Raw filter On	Physio
Elliptical filter Off	1st Signal/Mode None
Hamming Off	
	BOLD Off
Geometry	GLM Statistics Off
Multi-slice mode Interleaved	Dynamic t-maps Off
Series Ascending	Starting ignore meas 0
	Ignore after transition 0

	Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active
	Meas[9]	Baseline
		Baseline
	Meas[11]	Active
	Meas[12]	
	Meas[13]	Active
	Meas[14]	Active
	Meas[15]	Active
	Meas[16]	Active
	Meas[17]	Active
	Meas[18]	Active
	Meas[19]	Active
	Meas[20]	Active
	Motion correction	Off
	Spatial filter	Off
_		

 Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Off 1086 Hz/Px Off 1.05 ms
EPI factor RF pulse type	128 Normal
Gradient mode	Fast
RF spoiling	On
RF90 duration	7680
MB Number	2
DummyScan Number	1
FOV Shift Number	1
SkewType(1ff)	0
OVS flash(1on)	1
SER Number	1
Spoil factor	1
Skew Direction	1
Sat RF90 duration	5120
Dual On(1)	3
Echo Distance	1.00
MB Measurements	25
Ramp On	On

\\USER\Feinberglab\Test\0317Test\fl_fq_mb \\USER\size: 1.6×1.6×5.0 mm \quad Rel. SNR: 1.00

USER: fl_fq_mb

TA: 0:21

PAT: Off

Properties		System	
Prio Recon	Off		On
Before measurement		M2	On
After measurement		B4	On
Load to viewer	On	M3	On
Inline movie	Off	V32	Off
		V 32	
Auto store images	On O"	Positioning mode	REF
Load to stamp segments	Off	MSMA	S-C-T
Load images to graphic	Off	Sagittal	R >> L
segments		Coronal	A >> P
Auto open inline display	Off	Transversal	F >> H
Start measurement without	On		
further preparation		Coil Combine Mode	Adaptive Combine
Wait for user to start	Off	AutoAlign	 D ()
Start measurements	single	Auto Coil Select	Default
	9	Shim mode	Tune up
outine			•
Slice group 1		Adjust with body coil	Off Off
Slices	1	Confirm freq. adjustment	Off
Dist. factor	20 %	Assume Silicone	Off
Position	Isocenter	? Ref. amplitude 1H	0.000 V
Orientation	Transversal	Adjustment Tolerance	Auto
Phase enc. dir.	A >> P	Adjust volume	
		Position	Isocenter
Rotation	0.00 deg	Orientation	Transversal
Phase oversampling	0 %	Rotation	0.00 deg
FoV read	200 mm	R >> L	350 mm
FoV phase	100.0 %	A >> P	263 mm
Slice thickness	5.0 mm	F >> H	
TR	150.00 ms	Г >> П	350 mm
TE	10.00 ms	Physio	
Averages	1	1st Signal/Mode	None
Concatenations	1	Segments	1
Filter	None	oegments	'
Coil elements	B4;M2,3;T1	Angio	
Con elements	D4,IVIZ,3,1 1	Flow mode	Single dir.
ontrast		Encodings	1
Flip angle	15 deg	Velocity enc.	90 cm/s
		Direction	Through plane
Averaging mode	Short term		On
Reconstruction	Magnitude	Rephased images	
Measurements	1	Magnitude images	On
Multiple series	Each measurement	Phase images	On
•		Subtract	Off
esolution		Std-Dev-Sag	Off
Base resolution	128	· ·	
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
	- 	MIP-Sag	Off
PAT mode	None	MIP-Cor	Off
Imaga Filts:	O#	MIP-Tra	Off
Image Filter	Off	MIP-Time	Off
Distortion Corr.	Off	Save original images	On
Prescan Normalize	Off		-
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
•		Bandwidth	260 Hz/Px
eometry		— Flow comp.	No No
Multi-slice mode	Sequential	i low comp.	
Series	Ascending	RF pulse type	Normal
		Gradient mode	Fast
Special sat.	None	RF spoiling	On
Table position	Н	MB Number	2
Table position	0 mm	FOV Shift	1
Inline Composing	Off	I I O V SIIIIL	i

FOV Shift

20

	\\USER\Feinberglab\Te	est\0317Test\t2_fl2d_sag_hemo)
TA: 0:48	PAT: 2 Voxel size: 1.1×0	0.9×4.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Mode	Inplane
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off	T. 1.1. 20	
Load images to graphic	Off	Table position	H 0 mm
segments		Table position Inline Composing	Off
Auto open inline display	Off		OII
Start measurement without	On	Tim CT mode	Off
further preparation		System	
Wait for user to start	Off	E17	On
Start measurements	single	E18	On
Routine		E19	On
Slice group 1		E20	On
Slices	35	E01	On
Dist. factor	30 %	E02	On
Position	L0.0 A13.6 H13.6	E03	On
Orientation	Sagittal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	220 mm	E08	On
FoV phase	100.0 %	E09	On
Slice thickness	4.0 mm	E10	On
TR	400 ms	E11	On
TE	7.00 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	Elliptical filter	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	REF
MTC	Off	MSMA	S - C - T
Magn. preparation	None	Sagittal	R >> L
Flip angle	20 deg	Coronal	P >> A
Fat suppr.	None	Transversal	H >> F
Water suppr.	None	Save uncombined	Off
SWI	Off	Coil Combine Mode	Adaptive Combine
Averaging mode	Long term	AutoAlign	
Reconstruction	Magnitude	Auto Coil Select	Off
Measurements	1	Shim mode	Tune up
Multiple series	Each measurement	Adjust with body coil	Off
Resolution		Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
Phase resolution Phase partial Fourier	80 % Off	Adjustment Tolerance	Auto
Interpolation	On	Adjust volume	
		Position	Isocenter
PAT mode	GRAPPA	Orientation	Transversal
Accel. factor PE	2	Rotation	0.00 deg
Ref. lines PE	24	R >> L	350 mm
Reference scan mode	Integrated	A >> P	263 mm
Image Filter	Off	F >> H	350 mm
Distortion Corr.	Off	Physio	
Prescan Normalize	Off	1st Signal/Mode	None
Normalize	Off	Segments	1
P1 filtor	Off		•

Tagging

Dark blood

None

Off

Off

Off

On

B1 filter

Raw filter

Elliptical filter

	Resp. control	Off	
Inline			
	Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off	
	Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off	
S	MapIt Contrasts Sequence	None 1	
	Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D Off Off 200 Hz/Px Slice/Read	
	RF pulse type Gradient mode Excitation RF spoiling	Fast Fast* Slice-sel. On	

\\USER\Feinberglab\Test\0317Test\t2_fl2d_cor_hemo

TA: 0:48 F	•	0.9×2.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Mode	Inplane
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On	0-4	04
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off		
Load images to graphic	Off	Table position	Н
segments		Table position	0 mm
Auto open inline display	Off	Inline Composing	Off
Start measurement without	On	Tim CT mode	Off
further preparation		I	
Wait for user to start	Off	System	
Start measurements	single	E17	On
Routine		E18	On
		E19	On
Slice group 1	25	E20	On
Slices Dist. factor	35 10 %	E01	On
Position	R7.5 P35.3 H13.6	E02	On
		E03	On
Orientation	Coronal	E04	On
Phase enc. dir.	R >> L	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	220 mm	E08	On
FoV phase	100.0 %	E09	On
Slice thickness	2.0 mm	E10	On
TR	400 ms	E11	On
TE	7.00 ms	E12	On
Averages	1	E13	On
Concatenations Filter	 	E14	On
	Elliptical filter E01-20	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	REF
MTC	Off	MSMA	S - C - T
Magn. preparation	None	Sagittal	R >> L
Flip angle	20 deg	Coronal	P >> A
Fat suppr.	None	Transversal	H >> F
Water suppr.	None	Save uncombined	Off
SWI	Off	Coil Combine Mode	Adaptive Combine
Avoraging mode	Long torm	AutoAlign	
Averaging mode Reconstruction	Long term	Auto Coil Select	Off
Measurements	Magnitude 1		
Multiple series	Each measurement	Shim mode	Tune up
Multiple selles	Lacifileasurement	Adjust with body coil	Off
Resolution		Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
Phase resolution	80 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	Off	Adjustment Tolerance	Auto
Interpolation	On	Adjust volume	
DAT mode	CDADDA	Position	Isocenter
PAT mode	GRAPPA	Orientation	Transversal
Accel. factor PE Ref. lines PE	2 24	Rotation	0.00 deg
		R >> L	350 mm
Reference scan mode	Integrated	A >> P	263 mm
Image Filter	Off	F >> H	350 mm
Distortion Corr.	Off	Physio	
Prescan Normalize	Off	1st Signal/Mode	None
Normalize	Off	Segments	1
B1 filter	Off		
Raw filter	Off	Tagging	None
Elliptical filter	On	Dark blood	Off
•			

Resp. control	Off				
Inline					
Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra	Off Off Off Off Off				
Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off Off Off Off Off Off Off				
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off				
MapIt Contrasts Sequence	None 1				
Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D Off Off 200 Hz/Px Slice/Read				
RF pulse type Gradient mode Excitation RF spoiling	Fast Fast* Slice-sel. On				

\\USER\Feinberglab\Test\0317Test\t2_fl2d_cor_hemo

roperties		Mode	Inplane
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off		
Load images to graphic	Off	Table position	Н
segments	O.I.	Table position	0 mm
Auto open inline display	Off	Inline Composing	Off
Start measurement without	On	Ti OT1-	O#
further preparation	On	Tim CT mode	Off
Wait for user to start	Off	System	
		E17	On
Start measurements	single	E18	On
outine		E19	On
Slice group 1		E19 E20	On
Slices	25	E01	On
Dist. factor	10 %	E02	On
Position	L0.0 A13.6 H13.6	E03	On
Orientation	Sagittal	E03	On
Phase enc. dir.	A >> P		-
Rotation	0.00 deg	E05	On
Phase oversampling	0.00 deg 0 %	E06	On
FoV read	220 mm	E07	On
FoV phase	100.0 %	E08	On
Slice thickness	2.0 mm	E09	On
		E10	On
TR	400 ms	E11	On
TE	7.00 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	Elliptical filter	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	REF
MTC	Off	MSMA	S - C - T
Magn. preparation	None	Sagittal	R >> L
Flip angle	20 deg	Coronal	P >> A
Fat suppr.	None	Transversal	H >> F
Water suppr.	None	Save uncombined	Off
SWI	Off	Coil Combine Mode	Adaptive Combine
		AutoAlign	
Averaging mode	Long term	Auto Coil Select	Off
Reconstruction	Magnitude		
Measurements	1	Shim mode	Tune up
Multiple series	Each measurement	Adjust with body coil	Off
esolution		Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
Phase resolution	80 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	Off	Adjustment Tolerance	Auto
Interpolation	On	Adjust volume	
		Position	Isocenter
PAT mode	GRAPPA	Orientation	Transversal
Accel. factor PE	2	Rotation	0.00 deg
Ref. lines PE	24	R >> L	350 mm
Reference scan mode	Integrated	A >> P	263 mm
Image Filter	Off	F >> H	350 mm
Distortion Corr.	Off	Physio	
Prescan Normalize	Off	Physio	None
		1st Signal/Mode	None
Normalize B1 filter	Off	Segments	1
B1 filter Raw filter	Off	Tagging	None
Raw Iliter	Off	Dark blood	Off

Elliptical filter

On

Dark blood

	Resp. control	Off			
Ir	Inline				
	Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off			
	Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off			
S	MapIt Contrasts Sequence	None 1			
	Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D Off Off 200 Hz/Px Slice/Read			
	RF pulse type Gradient mode Excitation RF spoiling	Fast Fast* Slice-sel. On			

\\USER\Feinberglab\Test\0317Test\NoiseMeasSensitivityMap

Rel. SNR: 1.00

USER: NoiseMeasSensitivityMap

Voxel size: 0.5×0.5×5.0 mm

TA: 0:23

Properties		Table position	0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement	Oli	System	
After measurement		T1	On
Load to viewer	On	M2	On
Inline movie	Off	B4	On
Auto store images	On	M3	On
Load to stamp segments	Off	V32	Off
	Off	V 32	
Load images to graphic	Oli	Positioning mode	REF
segments	Off	MSMA	S - C - T
Auto open inline display	-	Sagittal	R >> L
Start measurement without	On	Coronal	A >> P
further preparation	0"	Transversal	F >> H
Wait for user to start	Off	Save uncombined	Off
Start measurements	single	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slice group 1		Auto Coil Select	Default
Slices	1	7.0.0 0011 001001	
Dist. factor	0 %	Shim mode	Tune up
Position	Isocenter	Adjust with body coil	Off
Orientation	Transversal	Confirm freq. adjustment	Off
Phase enc. dir.	A >> P	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
Rotation	0.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	
FoV read	192 mm	Position	Isocenter
FoV phase	100.0 %	Orientation	Transversal
Slice thickness	5.0 mm	Rotation	0.00 deg
TR	30 ms	R >> L	350 mm
TE	6.0 ms	A >> P	263 mm
Averages	1	F >> H	350 mm
Concatenations	1	1 >>11	330 11111
Filter	None	Physio	
Coil elements	B4;M2,3;T1	1st Signal/Mode	None
Contrast		Inline	
MTC	Off	Subtract	Off
Flip angle	10 deg	Std-Dev-Sag	Off
Fat suppr.	None	Std-Dev-Cor	Off
Water suppr.	None	Std-Dev-Tra	Off
		Std-Dev-Time	Off
Averaging mode	Short term	MIP-Sag	Off
Reconstruction	Magnitude	MIP-Cor	Off
Measurements	1	MIP-Tra	Off
Multiple series	Off	MIP-Time	Off
Resolution		Save original images	On
Base resolution	384		
Phase resolution	100 %	Coguenes	
		Sequence	0"
Phase partial Fourier	Off Off	Introduction	Off
Interpolation	Off	Dimension	2D
Image Filter	Off	Contrasts	1
Distortion Corr.	Off	Bandwidth	200 Hz/Px
Prescan Normalize	Off	Gradient mode	Fast
Normalize	Off		On
B1 filter	Off	RF spoiling	OII
Raw filter	Off	ICE program	CoilArrayUtil
Elliptical filter	Off	number of noise lines	384 lines
Lilipudai ilitei	OII	Optimal SNR	Off
Geometry		GFactor	Off
Multi-slice mode	Sequential	Condition number	Off
Series	Ascending	Rx coil diode switching	On
		coil channel reordering	Off
Special sat.	None		
Table position	Н	TX/RX Nucleus	1H 0 Hz
		TX/RX delta frequency	0 Hz

TX Nucleus None TX delta frequency 0 Hz

\\USER\Feinberglab\Test\0317Test\localizer_200V Voxel size: 1.2×1.1×3.0 mm Rel. SNR: 1.00

SIEMENS: gre

PAT: Off

TA: 0:27

TA. U.27 P.	AT. OII VOXEI SIZE. T.ZX	TI. IX3.0 IIIII Rei. SINK. 1.00	SIEMENS. gre
		Phase resolution	90 %
Properties			90 % 6/8
Prio Recon	Off	Phase partial Fourier	
Before measurement		Interpolation	On
After measurement		PAT mode	None
Load to viewer	On	Imaga Filtor	
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	Off
Load to stamp segments	Off	Prescan Normalize	Off
Load images to graphic	Off	Normalize	Off
segments		B1 filter	Off
Auto open inline display	Off	Raw filter	Off
Start measurement without	On	Elliptical filter	Off
further preparation		Geometry	
Wait for user to start	Off	Multi-slice mode	Sequential
Start measurements	single	Series	Interleaved
ļ	-		
Routine		Saturation mode	Standard
Slice group 1		Special sat.	None
Slices	5		
Dist. factor	20 %	Table position	Н
Position	Isocenter	Table position	0 mm
Orientation	Sagittal	Inline Composing	Off
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2	-	System	
Slices	5	T1	On
Dist. factor	20 %	M2	On
Position	Isocenter	B4	On
Orientation	Coronal	M3	On
Phase enc. dir.	R >> L	V32	Off
Rotation	0.00 deg	V 3Z	OII
Slice group 3	· - -	Positioning mode	FIX
Slices	5	MSMA	S - C - T
Dist. factor	20 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Transversal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0.00 deg 0 %	AutoAlign	
FoV read	280 mm	Auto Coil Select	Off
FoV read FoV phase	100.0 %		
Slice thickness	3.0 mm	Shim mode	Tune up
TR		Adjust with body coil	Off
	10.0 ms	Confirm freq. adjustment	Off
TE	3.00 ms	Assume Silicone	Off
Averages	1	! Ref. amplitude 1H	200.000 V
Concatenations	15 None	Adjustment Tolerance	Auto
Filter	None	Adjust volume	
Coil elements	B4;M2,3;T1	Position	Isocenter
Contrast		Orientation	Transversal
TD	0 ms	Rotation	0.00 deg
MTC	Off	R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	10 deg	F >> H	350 mm
Fat suppr.	None		· -
Water suppr.	None	Physio	
SWI	Off	1st Signal/Mode	None
	OII 	Segments	1
Averaging mode	Short term	Togging	None
Reconstruction	Magnitude	Tagging Dark blood	None Off
Measurements	1	Dark blood	OII
Multiple series	Each measurement	Resp. control	Off
1		'	
Resolution	050	Inline	
Base resolution	256	Subtract	Off

Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off
Wash - In Wash - Out TTP PEI MIP - time MapIt Contrasts	Off Off Off Off Off Off Off

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Bandwidth	320 Hz/Px
Flow comp.	No
 RF pulse type	Normal
Gradient mode	Whisper
Excitation	Slice-sel.
RF spoiling	On

\\USER\Feinberglab\Test\0317Test\b1map_200V_TR100

TA: 0:32	Voxel size: 3.9×3.9×5.0 mn	n Rel. SNR: 1.00 USER:	: b1map_658
Properties		M3 - V32	On Off
Prio Recon	Off		
Before measurement		Positioning mode	FIX
After measurement		MSMA	S - C - T
Load to viewer	On	Sagittal	R >> L
Inline movie	Off	Coronal	A >> P
Auto store images	On	Transversal	F >> H
Load to stamp segments	Off	Save uncombined	Off
Load images to graphic	Off	Coil Combine Mode	Adaptive Combine
segments		AutoAlign	· ·
Auto open inline display	Off	Auto Coil Select	Default
Start measurement without	On		
further preparation		Shim mode	Tune up
Wait for user to start	Off	Adjust with body coil	Off
Start measurements	single	Confirm freq. adjustment	Off
- ·	3	Assume Silicone	Off
Routine		! Ref. amplitude 1H	200.000 V
Slice group 1		Adjustment Tolerance	Auto
Slices	1	Adjust volume	
Dist. factor	150 %	Position	Isocenter
Position	L0.0 A5.4 H40.7	Orientation	Transversal
Orientation	T > C-17.8	Rotation	0.00 deg
Phase enc. dir.	A >> P	R >> L	350 mm
Rotation	0.00 deg	A >> P	263 mm
FoV read	250 mm	F >> H	350 mm
FoV phase	100.0 %	Composing	
Slice thickness	5 mm		
TR	425 ms	Sequence	
TE 1	14 ms	Contrasts	2
TE 2	14 ms	Bandwidth	260.416667 Hz/Px
Averages	1	T1 Componention	Mean T1
Filter	None	T1 Compensation Mean T1	500.0 ms
Coil elements	B4;M2,3;T1	Angles	500.0 ms 1
Contrast		Angles Amplitude Weighting	Linear
Flip angle 1	90 deg	Scale Bar	Enabled
Flip angle 2	120 deg	Raw Data	Disabled
Flip angle 3	60 deg	Tan Data	2.000.00
Flip angle 4	135 deg		
Flip angle 5	45 deg		
Measurements	1		
Resolution			
Base resolution	64	-	
Phase resolution	100 %		
Raw filter	Off		
Geometry Series	Interleaved	-	
	niterioaveu		
Navigator 1	D4 4 444 5 U07 0		
Position	R1.4 A11.5 H37.3		
Orientation	T > C-18.6		
Rotation	0.00 deg		
Base size phase	129 mm		
Base size read Thickness	87 mm 50 mm		
Table position	Н		
Table position	0 mm		
Inline Composing	Off		
System			
T1	On	-	
M2 B4	On On		

\\USER\Feinberglab\Test\0317Test\NoiseCovMap

TA: 0:23 Vo	kel size: 0.5×0.5×5.0 mn	n Rel. SNR: 1.00 USER: Noise	MeasSensitivityMap
Properties		Table position	0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement	Oli	System	
After measurement		T1	On
Load to viewer	On	M2	On
Inline movie	Off	B4	On
	-	M3	On
Auto store images	On Off	V32	Off
Load to stamp segments Load images to graphic	Off	V32	OII
· · · · · · · · · · · · · · · · · · ·	Oli	Positioning mode	REF
segments	Off	MSMA	S - C - T
Auto open inline display	Off	Sagittal	R >> L
Start measurement without	On	Coronal	A >> P
further preparation	0#	Transversal	F >> H
Wait for user to start	Off	Save uncombined	Off
Start measurements	single	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slice group 1		Auto Coil Select	Default
Slices	1		
Dist. factor	0 %	Shim mode	Tune up
Position	Isocenter	Adjust with body coil	Off
Orientation	Transversal	Confirm freq. adjustment	Off
Phase enc. dir.	A >> P	Assume Silicone	Off
Rotation	0.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0.00 deg 0 %	Adjustment Tolerance	Auto
FoV read	192 mm	Adjust volume	
FoV phase	100.0 %	Position	Isocenter
Slice thickness	5.0 mm	Orientation	Transversal
TR	30 ms	Rotation	0.00 deg
TE		R >> L	350 mm
	6.0 ms 1	A >> P	263 mm
Averages	· · ·	F >> H	350 mm
Concatenations Filter	1 Name	Discosio	
	None PAMO 0:T4	Physio	
Coil elements	B4;M2,3;T1	1st Signal/Mode	None
Contrast		Inline	
MTC	Off	Subtract	Off
Flip angle	10 deg	Std-Dev-Sag	Off
Fat suppr.	None	Std-Dev-Cor	Off
Water suppr.	None	Std-Dev-Tra	Off
Averaging mode	Short term	Std-Dev-Time	Off
Reconstruction	Magnitude	MIP-Sag	Off
Measurements	1	MIP-Cor	Off
Multiple series	Off	MIP-Tra	Off
Multiple series	Oli	MIP-Time	Off
Resolution		Save original images	On
Base resolution	384		
Phase resolution	100 %	Sequence	
Phase partial Fourier	Off	Introduction	Off
Interpolation	Off	Dimension	2D
		Contrasts	1
Image Filter	Off	Bandwidth	200 Hz/Px
Distortion Corr.	Off		
Prescan Normalize	Off	Gradient mode	Fast
Normalize	Off	RF spoiling	On
B1 filter	Off	ICE program	CoilArrayUtil
Raw filter	Off	number of noise lines	384 lines
Elliptical filter	Off	Optimal SNR	Off
Geometry		GFactor	Off
Multi-slice mode	Sequential		Off
Series	Ascending	Condition number	
	Ascending	Rx coil diode switching	On O#
Special sat.	None	coil channel reordering	Off
Table position	 Н	TX/RX Nucleus	1H
1 4010 003111011	1.1	TX/RX delta frequency	0 Hz

TX Nucleus None TX delta frequency 0 Hz

\\USER\Feinberglab\Test\0317Test\gFactorMap

TA: 0:23 Vo	kel size: 0.5×0.5×5.0 mm	Rel. SNR: 1.00 USER: Noise	MeasSensitivityMap
Properties		Table position	0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement	OII	System	
After measurement		T1	On
Load to viewer	On	M2	On
Inline movie	Off	B4	On
Auto store images	On	M3	On
Load to stamp segments	Off	V32	Off
Load images to graphic	Off		
segments	.	Positioning mode	REF
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	R >> L
further preparation	3.1	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
	5.1.g.5	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slice group 1		Auto Coil Select	Default
Slices	1	Shim mode	Tune up
Dist. factor	0 %	Adjust with body coil	Off
Position	Isocenter	Confirm freq. adjustment	Off
Orientation	Transversal	Assume Silicone	Off
Phase enc. dir.	A >> P	? Ref. amplitude 1H	0.000 V
Rotation	0.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	Auto
FoV read	192 mm	Position	Isocenter
FoV phase	100.0 %	Orientation	Transversal
Slice thickness	5.0 mm	Rotation	0.00 deg
TR	30 ms	R >> L	350 mm
TE	6.0 ms	A >> P	263 mm
Averages	1	F >> H	350 mm
Concatenations	1	1 >>11	330 11111
Filter	None	Physio	
Coil elements	B4;M2,3;T1	1st Signal/Mode	None
Contrast		Inline	
MTC	Off	Subtract	Off
Flip angle	10 deg	Std-Dev-Sag	Off
Fat suppr.	None	Std-Dev-Cor	Off
Water suppr.	None	Std-Dev-Tra	Off
Averaging mode	Short term	Std-Dev-Time	Off
Reconstruction	Magnitude	MIP-Sag	Off
Measurements	1	MIP-Cor	Off
Multiple series	Off	MIP-Tra	Off
•		MIP-Time	Off
Resolution		Save original images	On
Base resolution	384		
Phase resolution	100 %	Sequence	
Phase partial Fourier	Off	Introduction	Off
Interpolation	Off	Dimension	2D
Image Filter	Off	Contrasts	1
Distortion Corr.	Off	Bandwidth	200 Hz/Px
Prescan Normalize	Off	Gradient mode	Fast
Normalize	Off	RF spoiling	On
B1 filter	Off		
Raw filter	Off	ICE program	CoilArrayUtil
Elliptical filter	Off	number of noise lines	384 lines
·		Optimal SNR	On
Geometry		GFactor	On
Multi-slice mode	Sequential	Condition number	Off
Series	Ascending	Rx coil diode switching	On
Special sat.	None	coil channel reordering	Off
Table position	Н	TX/RX Nucleus	1H
		· · · · · · · · · · · · · · · · · · ·	0 Hz

TX Nucleus None TX delta frequency 0 Hz

\\USER\Feinberglab\Test\0317Test\SnrMap

TA: 0:23	Voxel size: 0.5×0.5×5.0 mm	Rel. SNR: 1.00 USER: Noise	MeasSensitivityMap
Dranartias		Table position	0 mm
Properties	0"	Inline Composing	Off
Prio Recon	Off	System	
Before measurement		System	0.5
After measurement	0	T1	On
Load to viewer	On O#	M2	On
Inline movie	Off	B4	On
Auto store images	On O"	M3	On O"
Load to stamp segments	Off	V32	Off
Load images to graphic	Off	Positioning mode	REF
segments	2"	MSMA	S-C-T
Auto open inline display	Off	Sagittal	R >> L
Start measurement witho	ut On	Coronal	A >> P
further preparation		Transversal	F >> H
Wait for user to start	Off	Save uncombined	Off
Start measurements	single	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slice group 1		Auto Coil Select	Default
Slices	1		
Dist. factor	0 %	Shim mode	Tune up
Position	Isocenter	Adjust with body coil	Off
Orientation		Confirm freq. adjustment	Off
	Transversal	Assume Silicone	Off
Phase enc. dir.	A >> P	? Ref. amplitude 1H	0.000 V
Rotation	0.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	
FoV read	192 mm	Position	Isocenter
FoV phase	100.0 %	Orientation	Transversal
Slice thickness	5.0 mm	Rotation	0.00 deg
TR	30 ms	R >> L	350 mm
TE	6.0 ms	A >> P	263 mm
Averages	1	F >> H	350 mm
Concatenations	1		330 111111
Filter	None	Physio	
Coil elements	B4;M2,3;T1	1st Signal/Mode	None
Contrast		Inline	
MTC	Off	Subtract	Off
Flip angle	10 deg	Std-Dev-Sag	Off
Fat suppr.	None	Std-Dev-Cor	Off
Water suppr.	None	Std-Dev-Tra	Off
Averaging mode	Short term	Std-Dev-Time	Off
Reconstruction	Magnitude	MIP-Sag	Off
Measurements	1	MIP-Cor	Off
	Off	MIP-Tra	Off
Multiple series	Oli	MIP-Time	Off
Resolution		Save original images	On
Base resolution	384		
Phase resolution	100 %	Sequence	
Phase partial Fourier	Off	Introduction	Off
Interpolation	Off	Dimension	2D
		··· Contrasts	1
Image Filter	Off	Bandwidth	200 Hz/Px
Distortion Corr.	Off		
Prescan Normalize	Off	Gradient mode	Fast
Normalize	Off	RF spoiling	On
B1 filter	Off	ICE program	CoilArrayUtil
Raw filter	Off	number of noise lines	384 lines
Elliptical filter	Off	Optimal SNR	On
Geometry		GFactor	Off
Multi-slice mode	Sequential	Condition number	Off
Series	Ascending		
	Ascending	Rx coil diode switching	On Off
Special sat.	None	coil channel reordering	Off
Table position	Н	TX/RX Nucleus	1H
I to a second		TX/RX delta frequency	0 Hz

TX Nucleus None TX delta frequency 0 Hz

\\USER\Feinberglab\Test\0317Test\localizer_200V_newcoil

Voxel size: 1.2×1.1×3.0 mm Rel. SNR: 1.00

PAT: Off

TA: 0:27

SIEMENS: gre

Properties		Phase resolution Phase partial Fourier	90 % 6/8
Prio Recon	Off	Interpolation	On
Before measurement After measurement		PAT mode	
Load to viewer	On		
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	Off
Load to stamp segments	Off	Prescan Normalize	Off
Load images to graphic	Off	Normalize	Off
	Oli	B1 filter	Off
segments	0"	Raw filter	Off
Auto open inline display	Off	Elliptical filter	Off
Start measurement without	On	1	
further preparation		Geometry	
Wait for user to start	Off	Multi-slice mode	Sequential
Start measurements	single	Series	Interleaved
Routine		0-1	04
		Saturation mode	Standard
Slice group 1	_	Special sat.	None
Slices	5		
Dist. factor	20 %	Table position	Н
Position	Isocenter	Table position	0 mm
Orientation	Sagittal	Inline Composing	Off
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2		System	
Slices	5	E17	On
Dist. factor	20 %	E18	On
Position	Isocenter	E19	On
Orientation	Coronal		_
Phase enc. dir.	R >> L	E20	On
Rotation	0.00 deg	E01	On
Slice group 3	0.00 deg	E02	On
Slices	E	E03	On
	5	E04	On
Dist. factor	20 %	E05	On
Position	Isocenter	E06	On
Orientation	Transversal	E07	On
Phase enc. dir.	A >> P	E08	On
Rotation	0.00 deg	E09	On
Phase oversampling	0 %	E10	On
FoV read	280 mm	E11	On
FoV phase	100.0 %	E12	On
Slice thickness	3.0 mm	E13	On
TR	10.0 ms	E14	On
TE	3.00 ms	E15	On
Averages	1	E16	On
Concatenations	15		
Filter	None	Positioning mode	FIX
Coil elements	E01-20	MSMA	S - C - T
1		Sagittal	R >> L
Contrast		Coronal	A >> P
TD	0 ms	Transversal	F >> H
MTC	Off	Save uncombined	Off
Magn. preparation	None	Coil Combine Mode	Adaptive Combine
Flip angle	10 deg	AutoAlign	
Fat suppr.	None	Auto Coil Select	Off
Water suppr.	None	Auto Coli Select	OII
SWI	Off	Shim mode	Tune up
		Adjust with body coil	Off
Averaging mode	Short term	Confirm freq. adjustment	Off
Reconstruction	Magnitude	Assume Silicone	Off
Measurements	1	! Ref. amplitude 1H	200.000 V
Multiple series	Each measurement	Adjustment Tolerance	Auto
			Auto
Resolution		Adjust volume	laggenter
Base resolution	256	Position	Isocenter
		Orientation	Transversal

Rotation R >> L A >> P F >> H	0.00 deg 350 mm 263 mm 350 mm
Physio	
1st Signal/Mode Segments	None 1
Tagging Dark blood	None Off
Resp. control	Off
Inline	
Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Tra MIP-Time Save original images	Off
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
MapIt Contrasts	None 1
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D Off Allowed 320 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Normal Whisper Slice-sel. On

\\USER\Feinberglab\Test\0317Test\gFactorMap

USER: NoiseMeasSensitivityMap

Voxel size: 0.5×0.5×5.0 mm Rel. SNR: 1.00

TA: 0:46

	Table position	Н
		0 mm
Off		Off
	1	
0		0.5
		On
		On On
	_	On
		On
Oπ		On
0"		On
		On
On		On
		On
		On
single		On
		On
		On
3		On
	E11	On
	E12	On
	E13	On
	E14	On
	E15	On
	E16	On
	Decitioning mode	
		REF
	_	S-C-T
		R >> L
		A >> P
		F >> H
		Off
		Adaptive Combine
E01-20	Auto Coil Select	Default
	Shim mode	Tune up
0 ms	Adjust with body coil	Off
Off	Confirm freq. adjustment	Off
10 deg	Assume Silicone	Off
None	? Ref. amplitude 1H	0.000 V
None	Adjustment Tolerance	Auto
Ob	Adjust volume	
	! Position	Isocenter
iviagnitude	! Orientation	Transversal
1	! Rotation	0.00 deg
Oπ	! R >> L	350 mm
	! A >> P	263 mm
384	! F >> H	350 mm
	ļ	
	1st Signal/Mode	None
	······ Inline	
Off		Off
Off		Off
Off	•	Off
Off		Off
Off		_
Off		Off
Off	MIP-Sag	Off
	MIP-Cor	Off
	MID T	0"
	MIP-Tra	Off
Sequential	MIP-Time	Off
		_
	Off 10 deg None None Short term Magnitude 1 Off 384 100 % Off Off Off Off Off Off Off Off Off	Inline Composing System

Introduction Dimension Contrasts Bandwidth	Off 2D 1 200 Hz/Px
Gradient mode RF spoiling	Fast On
ICE program number of noise lines Optimal SNR GFactor Condition number Rx coil diode switching coil channel reordering	CoilArrayUtil 384 lines On On Off On Off
TX/RX Nucleus TX/RX delta frequency TX Nucleus TX delta frequency	1H 0 Hz None 0 Hz

\\USER\Feinberglab\Test\0317Test\ep2d_M2P2f1_OVS_flash_iso75

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

PAT: 2

TA: 0:28

171. 0.20	V 0 A 01 312 0. 0.0 A 0.0 A 0.0 TI IIII	Troi. Grant. 1.00 GGER.	
		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A33.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	C 51 51 141
Load to viewer	On	Thickness	110 mm
Inline movie	Off	Position	L0.0 P136.2 F35.7
Auto store images	On	Orientation	C > T14.7
Load to stamp segments	Off	Special sat.	None
Load images to graphic	Off		
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		System	
Wait for user to start	Off	E17	On
Start measurements	single	E18	On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	50 % L1.2 P48.6 H1.1	E02 E03	On On
Orientation	Transversal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	192 mm	E08	On
FoV phase	50.0 %	E09	On
Slice thickness	0.75 mm	E10	On
TR	4000 ms	E11	On
TE	27 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S - C - T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
		Transversal	F >> H
Averaging mode	Long term	Coil Combine Mode	Sum of Squares
Reconstruction	Magnitude	AutoAlign	·
Measurements	4	Auto Coil Select	Default
Delay in TR	0 ms		••••••
Multiple series	Off	Shim mode	Standard
Resolution		Adjust with body coil	Off
Base resolution	256	Confirm freq. adjustment	Off
Phase resolution	100 %	Assume Silicone	Off
Phase partial Fourier	6/8	? Ref. amplitude 1H	0.000 V
Interpolation	Off	Adjustment Tolerance	Auto
		Adjust volume	100 004 5 : : 5 =
PAT mode	GRAPPA	! Position	L0.0 P34.6 H0.7
Accel. factor PE	2	! Orientation	Transversal
Ref. lines PE	24	! Rotation	0.00 deg
Reference scan mode	Separate	! R >> L	100 mm
Distortion Corr.	Off	! A >> P	80 mm
	Off	! F >> H	56 mm
Prescan Normalize Raw filter		Physio	
	On Off	1st Signal/Mode	None
		1St Signal/Mode	None
Elliptical filter			
Elliptical filter Hamming	Off	BOLD	
<u> </u>		BOLD GLM Statistics	Off
Hamming			Off Off
Hamming Geometry	Off	GLM Statistics	_

Model transition states Temp. highpass filter Threshold Paradigm size	On On 4.00 20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Off 1086 Hz/Px Off 1.05 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 1 0 1 1 1 1 5120 3 1.00 1

\\USER\Feinberglab\Test\0317Test\ep2d_M2P2_OVS_flash_iso55

USER: ep2d_bold_OVS_flash

Voxel size: 0.5×0.5×0.6 mm Rel. SNR: 1.00

PAT: 2

TA: 0:28

171. 0.20	V 0 A 01 202 0 . 0 A 0 . 0 A 0 . 0 A 11 11 1	Troi. Grant. 1.00 GGER.	
		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A33.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	3 5.15.15.
Load to viewer	On	Thickness	110 mm
Inline movie	Off	Position	L0.0 P136.2 F35.7
Auto store images	On	Orientation	C > T14.7
Load to stamp segments	Off	Special sat.	None
Load images to graphic	Off		
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		System	
Wait for user to start	Off	E17	On
Start measurements	single	E18	On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	50 % L1.2 P48.6 H1.1	E02 E03	On On
Orientation	Transversal	E04	On On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	140 mm	E08	On
FoV phase	50.0 %	E09	On
Slice thickness	0.55 mm	E10	On
TR	4000 ms	E11	On
TE	34 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S - C - T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
		Transversal	F >> H
Averaging mode	Long term	Coil Combine Mode	Sum of Squares
Reconstruction	Magnitude	AutoAlign	·
Measurements	4	Auto Coil Select	Default
Delay in TR	0 ms		
Multiple series	Off	Shim mode	Standard
Resolution		Adjust with body coil	Off
Base resolution	256	Confirm freq. adjustment	Off
Phase resolution	100 %	Assume Silicone	Off
Phase partial Fourier	6/8	? Ref. amplitude 1H	0.000 V
Interpolation	Off	Adjustment Tolerance	Auto
		Adjust volume	
PAT mode	GRAPPA	! Position	L0.0 P34.6 H0.7
Accel. factor PE	2	! Orientation	Transversal
Ref. lines PE	24	! Rotation	0.00 deg
Reference scan mode	Separate	! R >> L	100 mm
Distortion Corr.	Off	! A >> P	80 mm
	Off	! F >> H	56 mm
Prescan Normalize Raw filter		Physio	
Elliptical filter	On Off	1st Signal/Mode	None
Elliptical fliter		1	None
Llamming		BOLD	
Hamming	Off	BOLD	
Hamming Geometry	Oli	GLM Statistics	Off
	Interleaved		Off Off
Geometry		GLM Statistics	_

	Model transition states	On
	Temp. highpass filter	On
	Threshold	4.00
	Paradigm size	20
	Meas[1]	Baseline
	Meas[2]	Baseline
	Meas[3]	Baseline
	Meas[4]	Baseline
	Meas[5]	Baseline
	Meas[6]	Baseline
	Meas[7]	Baseline
	Meas[8]	Baseline
	Meas[9]	Baseline
	Meas[10]	Baseline
	Meas[11]	Active
	Meas[12]	Active
	Meas[13]	Active
	Meas[14]	Active
	Meas[15]	Active
	Meas[16]	Active
	Meas[17]	Active
	Meas[18]	Active
	Meas[19]	Active
	Meas[20]	Active
	Motion correction	Off
	Spatial filter	Off
_		

!	
Introduction	Off
Asymmetric echo	Off
Bandwidth	782 Hz/Px
Free echo spacing	Off
Echo spacing	1.4 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On
RF90 duration	7680
MB Number	2
DummyScan Number	1
FOV Shift Number	1
SkewType(1ff)	0
OVS flash(1on)	1
SER Number	1
Spoil factor	1
Skew Direction Sat RF90 duration	1 5120
Dual On(1)	3
Echo Distance	1.00
MB Measurements	1
Ramp On	On

\\USER\Feinberglab\Test\0317Test\ep2d_M2P2_OVS_flash_iso46

USER: ep2d_bold_OVS_flash

Voxel size: 0.5×0.5×0.5 mm Rel. SNR: 1.00

PAT: 2

TA: 0:40

171. 0.40	VOXO1 0120: 0.0X0.0X0.0 111111	TOIL OTTICL TION OF COLIN.	
		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A7.3 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Colonal
Load to viewer	On		110 mm
Inline movie	Off	Thickness	110 mm
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
segments	OII	Table position	Н
	0#	Table position	
Auto open inline display	Off		0 mm
Start measurement without	On	Inline Composing	Off
further preparation		System	
Wait for user to start	Off	T1	On
Start measurements	single		_
Davida -		M2	On
Routine		B4	On
Slice group 1		M3	On
Slices	50	V32	Off
Dist. factor	50 %		
Position	L1.2 P58.1 H0.5	Positioning mode	FIX
Orientation	Transversal	MSMA	S - C - T
Phase enc. dir.	A >> P	Sagittal	R >> L
Rotation	0.00 deg	Coronal	A >> P
		Transversal	F >> H
Phase oversampling	0 %	Coil Combine Mode	Sum of Squares
FoV read	147 mm	AutoAlign	
FoV phase	25.0 %	Auto Coil Select	Default
Slice thickness	0.45 mm	Auto Con Select	Delault
TR	4000 ms	Shim mode	Standard
TE	29 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	None		_
		? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1	Adjustment Tolerance	Auto
Contrast		Adjust volume	
MTC	Off	! Position	L0.0 P34.6 H0.7
Flip angle	70 deg	! Orientation	Transversal
	· ·	! Rotation	0.00 deg
Fat suppr.	Fat sat.	! R >> L	100 mm
Averaging mode	Long term	! A >> P	80 mm
Reconstruction	Magnitude	! F >> H	56 mm
Measurements	7		00 111111
Delay in TR	•	Physio	
	0 ms	1st Signal/Mode	None
Multiple series	Off	1	
Resolution		BOLD	
Base resolution	320	GLM Statistics	Off
Phase resolution	100 %	Dynamic t-maps	Off
		Starting ignore meas	0
Phase partial Fourier	6/8	Ignore after transition	0
Interpolation	Off	Model transition states	On
PAT mode	GRAPPA	Temp. highpass filter	On
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	14	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
Distortion Corr.	Off	Meas[2]	Baseline
DISTOLLION COIL		Meas[3]	Baseline
Dunnan Managarit		= =	Baseline
Prescan Normalize	Off	I Measi4i	Dascinic
Raw filter	On	Meas[4] Meas[5]	
	On Off	Meas[5]	Baseline
Raw filter	On	Meas[5] Meas[6]	Baseline Baseline
Raw filter Elliptical filter Hamming	On Off	Meas[5] Meas[6] Meas[7]	Baseline Baseline Baseline
Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[5] Meas[6] Meas[7] Meas[8]	Baseline Baseline Baseline Baseline
Raw filter Elliptical filter Hamming	On Off Off	Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	Baseline Baseline Baseline Baseline Baseline
Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[5] Meas[6] Meas[7] Meas[8]	Baseline Baseline Baseline Baseline

Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction	Off
Asymmetric echo	Off
Bandwidth	782 Hz/Px
Free echo spacing	Off
Echo spacing	1.56 ms
EPI factor	80
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On
DE00 duration	7000
RF90 duration MB Number	7680 2
	-
DummyScan Number FOV Shift Number	2 1
	0
SkewType(1ff)	
OVS flash(1on) SER Number	1
	1
Spoil factor Skew Direction	1
Sat RF90 duration	5120
Dual On(1)	3
Echo Distance	1.00
	1.00
MB Measurements	<u>.</u>
Ramp On	On

\\USER\	.Feinberglab\Test\0317Test\6	ep2d_M2Px2_OVS_flash_is	so46_fmri	
TA: 4:36 PAT: 2	Voxel size: 0.5×0.5×0.5 mm	Rel. SNR: 1.00 USER: 6	ep2d_bold_OVS_flash	
Properties		Sat. region 1	440	
Prio Recon	Off	Thickness	110 mm	
Before measurement	5	Position	L0.0 P4.9 H0.0	
After measurement		Orientation	Coronal	
Load to viewer	On	Sat. region 2		
Inline movie	Off	Thickness	110 mm	
		Position	L0.0 P136.2 F35.7	
Auto store images	On Off	Orientation	C > T14.7	
Load to stamp segments	Off	Special sat.	None	
Load images to graphic	Off	—		
segments		Table position	H	
Auto open inline display	Off	Table position	0 mm	
Start measurement without	On	Inline Composing	Off	
further preparation		System		
Wait for user to start	Off	B1	On	
Start measurements	single		_	
Davitina		B2	On	
Routine		B3	On	
Slice group 1		B4	On	
Slices	50	B5	On	
Dist. factor	50 %	B6	On	
Position	L1.2 P75.8 F5.6	B7	On	
Orientation	Transversal	B8	On	
Phase enc. dir.	A >> P		FIV	
Rotation	0.00 deg	Positioning mode	FIX	
Phase oversampling	0 %	MSMA	S - C - T	
FoV read	147 mm	Sagittal	R >> L	
FoV phase	25.0 %	Coronal	A >> P	
Slice thickness	0.45 mm	Transversal	F >> H	
TR	4000 ms	Coil Combine Mode	Sum of Squares	
		AutoAlign		
TE	25 ms	Auto Coil Select	Default	
Averages	1			
Concatenations	1	Shim mode	Standard	
Filter	None	Adjust with body coil	Off	
Coil elements	B1-8	Confirm freq. adjustment	Off	
Contrast		Assume Silicone	Off	
MTC	Off	? Ref. amplitude 1H	0.000 V	
		Adjustment Tolerance	Auto	
Flip angle	70 deg	Adjust volume		
Fat suppr.	Fat sat.	! Position	L1.9 P64.2 F7.0	
Averaging mode	Long term	! Orientation	Transversal	
Reconstruction	Magnitude	! Rotation		
Measurements	Magnitude		0 00 dea	
	66		0.00 deg	
	66	! R >> L	147 mm	
Delay in TR	0 ms	! R >> L ! A >> P	147 mm 54 mm	
		! R >> L	147 mm	
Delay in TR	0 ms	! R >> L ! A >> P	147 mm 54 mm	
Delay in TR Multiple series	0 ms	! R >> L ! A >> P ! F >> H	147 mm 54 mm	
Delay in TR Multiple series Resolution	0 ms Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode	147 mm 54 mm 44 mm	
Delay in TR Multiple series Resolution Base resolution Phase resolution	0 ms Off 320 100 %	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD	147 mm 54 mm 44 mm	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier	0 ms Off 320 100 % 6/8	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode	147 mm 54 mm 44 mm None	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation	0 ms Off 320 100 % 6/8 Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps	147 mm 54 mm 44 mm	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier	0 ms Off 320 100 % 6/8	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas	147 mm 54 mm 44 mm None	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation	0 ms Off 320 100 % 6/8 Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps	147 mm 54 mm 44 mm None Off Off	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	0 ms Off 320 100 % 6/8 Off GRAPPA	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas	147 mm 54 mm 44 mm None Off Off Off 0	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states	147 mm 54 mm 44 mm None Off Off Off 0 0	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition	147 mm 54 mm 44 mm None Off Off Off O O O O O O O O O O O O O	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr.	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold	147 mm 54 mm 44 mm None Off Off Off O 0 0 On On 4.00	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	147 mm 54 mm 44 mm None Off Off Off O 0 0 0 0 0 0 4.00 20	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr.	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1]	147 mm 54 mm 44 mm None Off Off Off O 0 0 On On 4.00 20 Baseline	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	147 mm 54 mm 44 mm None Off Off Off O 0 0 On On 4.00 20 Baseline Baseline	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off Off On	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3]	147 mm 54 mm 44 mm None Off Off Off O 0 0 0 0 0 A.00 20 Baseline Baseline Baseline Baseline	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off Off On Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4]	147 mm 54 mm 44 mm None Off Off Off O 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off Off Off On Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5]	147 mm 54 mm 44 mm None Off Off Off O 0 0 0 0 0 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off Off Off On Off Off Off Interleaved	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6]	147 mm 54 mm 44 mm None Off Off Off O 0 0 On On 4.00 20 Baseline	
Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry	0 ms Off 320 100 % 6/8 Off GRAPPA 2 14 Separate Off Off Off On Off	! R >> L ! A >> P ! F >> H Physio 1st Signal/Mode BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5]	147 mm 54 mm 44 mm None Off Off Off O 0 0 0 0 0 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline	

Meas[8]

Baseline

Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20] Motion correction Spatial filter	Baseline Baseline Active
---------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------

Sec	quence	
	Introduction	Off
	Asymmetric echo	Allowed
	Bandwidth	782 Hz/Px
	Free echo spacing	Off
	Echo spacing	1.28 ms
	EPI factor	80
	RF pulse type	Normal
(Gradient mode	Normal
I	RF spoiling	On
	RF90 duration	7680
	MB Number	2
	DummyScan Number	1
	FOV Shift Number	1
,	SkewType(1ff)	0
(OVS flash(1on)	1
;	SER Number	1
;	Spoil factor	1
;	Skew Direction	1
;	Sat RF90 duration	5120
	Dual On(1)	3
	Echo Distance	1.00
	MB Measurements	63
	Ramp On	On

\\USER\	Feinberglab\Test\0317Test\e	p2d_M2P2f1_OVS_flash_	iso75-fmri
TA: 4:36 PAT: 2	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00 USER:	ep2d_bold_OVS_flash
Drawartia		Sat. region 1	
Properties	<u> </u>	Thickness	110 mm
Prio Recon	Off	Position	L0.0 A48.0 H0.0
Before measurement		Orientation	Coronal
After measurement	_	Sat. region 2	2 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5
Load to viewer	On	Thickness	110 mm
Inline movie	Off	Position	L0.0 P136.2 F35.7
Auto store images	On	Orientation	C > T14.7
Load to stamp segments	Off	Special sat.	None
Load images to graphic	Off	opedial sat.	
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation			
Wait for user to start	Off	System	
Start measurements	single	B1	On
1		B2	On
Routine		B3	On
Slice group 1		B4	On
Slices	50	B5	On
Dist. factor	50 %	B6	On
Position	L1.2 P50.8 F5.6	B7	On
Orientation	Transversal	B8	On
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Positioning mode	FIX
Phase oversampling	0 %	MSMA	S - C - T
FoV read	192 mm	Sagittal	R >> L
FoV phase	50.0 %	Coronal	A >> P
·		Transversal	F >> H
Slice thickness	0.75 mm	Coil Combine Mode	Sum of Squares
TR	4000 ms	AutoAlign	
TE	27 ms	Auto Coil Select	Default
Averages	1		
Concatenations	1	Shim mode	Standard
Filter	None	Adjust with body coil	Off
Coil elements	B1-8	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
		Adjustment Tolerance	Auto
Flip angle	70 deg	Adjust volume	
Fat suppr.	Fat sat.	! Position	L1.9 P64.2 F7.0
Averaging mode	Long term	! Orientation	Transversal
Reconstruction	Magnitude	! Rotation	0.00 deg
Measurements	66	! R >> L	147 mm
Delay in TR	0 ms	! A >> P	54 mm
		! F >> H	44 mm
Multiple series	Off	! Γ >> Π	44 IIIII
Resolution		Physio	
Base resolution	256	1st Signal/Mode	None
Phase resolution	100 %		
Phase partial Fourier	6/8	BOLD	
Interpolation	Off	GLM Statistics	Off
		Dynamic t-maps	Off
PAT mode	GRAPPA	Starting ignore meas	0
Accel. factor PE	2	Ignore after transition	0
Ref. lines PE	24	Model transition states	On
Reference scan mode	Separate	Temp. highpass filter	On
		Threshold	4.00
Distortion Corr.	Off	Paradigm size	20
Prescan Normalize	Off	Meas[1]	Baseline
Raw filter	On	Meas[2]	Baseline
Elliptical filter	Off	Meas[3]	Baseline
Hamming	Off	Meas[4]	Baseline
1		= =	Baseline
Geometry	lotada e e d	Meas[5]	
Multi-slice mode	Interleaved	Meas[6]	Baseline
Series	Ascending	Meas[7]	Baseline
		Meas[8]	Baseline

Meas[8]

Baseline

Sequence	
Introduction	Off
Asymmetric echo	Off
Bandwidth	1086 Hz/Px
Free echo spacing	Off
Echo spacing	1.05 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On
RF90 duration	7680
MB Number	2
DummyScan Number	1
FOV Shift Number	1
SkewType(1ff)	0
OVS flash(1on)	1
SER Number	1
Spoil factor	1
Skew Direction	1
Sat RF90 duration	5120
Dual On(1)	3
Echo Distance	1.00
MB Measurements	63
Ramp On	On

\\USER\		ep2d_M2Px2_OVS_flash_is	so55_fmri	
TA: 4:36 PAT: 2	Voxel size: 0.5×0.5×0.6 mm	Rel. SNR: 1.00 USER: 6	ep2d_bold_OVS_flash	
L Cot region 4				
Properties		Sat. region 1 Thickness	110 mm	
Prio Recon	Off		-	
Before measurement		Position	L0.0 A20.9 H0.0	
After measurement		Orientation	Coronal	
Load to viewer	On	Sat. region 2		
		Thickness	110 mm	
Inline movie	Off	Position	L0.0 P136.2 F35.7	
Auto store images	On	Orientation	C > T14.7	
Load to stamp segments	Off	Special sat.	None	
Load images to graphic	Off	Opecial sat.		
segments		Table position	Н	
Auto open inline display	Off	Table position	0 mm	
Start measurement without	On	Inline Composing	Off	
further preparation	OII	Timile Composing	Oli	
	Off	System		
Wait for user to start		B1	On	
Start measurements	single	B2	On	
Routine		B3	On	
Slice group 1	50	B4	On	
Slices	50	B5	On	
Dist. factor	50 %	B6	On	
Position	L1.2 P65.8 F5.6	B7	On	
Orientation	Transversal	B8	On	
Phase enc. dir.	A >> P			
Rotation	0.00 deg	Positioning mode	FIX	
Phase oversampling	0 %	MSMA	S - C - T	
		Sagittal	R >> L	
FoV read	140 mm	Coronal	A >> P	
FoV phase	50.0 %	Transversal	F >> H	
Slice thickness	0.55 mm			
TR	4000 ms	Coil Combine Mode	Sum of Squares	
TE	28 ms	AutoAlign		
Averages	1	Auto Coil Select	Default	
Concatenations	1	Chi da	Ctondond	
	•	Shim mode	Standard	
Filter	None	Adjust with body coil	Off	
Coil elements	B1-8	Confirm freq. adjustment	Off	
Contrast		Assume Silicone	Off	
	O#	? Ref. amplitude 1H	0.000 V	
MTC	Off	Adjustment Tolerance	Auto	
Flip angle	70 deg	Adjust volume	, 1010	
Fat suppr.	Fat sat.	! Position	14 0 D64 2 E7 0	
			L1.9 P64.2 F7.0	
Averaging mode	Long term	! Orientation	Transversal	
Reconstruction	Magnitude	! Rotation	0.00 deg	
Measurements	66	! R >> L	147 mm	
Delay in TR	0 ms	! A >> P	54 mm	
Multiple series	Off	! F >> H	44 mm	
•		· ·		
Resolution		Physio		
Base resolution	256	1st Signal/Mode	None	
Phase resolution	100 %	, DOLD		
Phase partial Fourier	6/8	BOLD		
Interpolation	Off	GLM Statistics	Off	
		Dynamic t-maps	Off	
PAT mode	GRAPPA	Starting ignore meas	0	
Accel. factor PE	2	Ignore after transition	0	
Ref. lines PE	24	Model transition states	On	
Reference scan mode	Separate	Temp. highpass filter	On	
		Threshold		
Distortion Corr.	Off		4.00	
Prescan Normalize	Off	Paradigm size	20	
Raw filter	On	Meas[1]	Baseline	
		Meas[2]	Baseline	
Elliptical filter	Off	Meas[3]	Baseline	
Hamming	Off	Meas[4]	Baseline	
Geometry		Meas[5]	Baseline	
•	Interiory of			
Multi-slice mode	Interleaved	Meas[6]	Baseline	
Series	Ascending	Meas[7]	Baseline	
		Meas[8]	Raseline	

Meas[8]

Baseline

Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20] Motion correction Spatial filter	Baseline Baseline Active
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Sequence	
Introduction Asymmetric echo	Off Allowed
Bandwidth	850 Hz/Px
Free echo spacing	Off
Echo spacing	1.07 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On
RF90 duration	7680
MB Number	2
DummyScan Number	1
FOV Shift Number	1
SkewType(1ff)	0
OVS flash(1on)	1
SER Number	1
Spoil factor	1
Skew Direction	1
Sat RF90 duration	5120
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\\USER				
	Feinberg	lab		
	ĺ	Test		
			0317Te	st
			0317Te	ep2d_M2P2_OVS_flash_iso55_pkx ep2d_M2P2_OVS_flash_iso55 ep2d_M2P2_OVS_flash_iso75 fl_fq_mb t2_fl2d_sag_hemo t2_fl2d_cor_hemo t2_fl2d_cor_hemo NoiseMeasSensitivityMaprun nova coil localizer_200V b1map_200V_TR100 NoiseCovMap gFactorMap SnrMaprun new coil
				localizer_200V_newcoil gFactorMap
				ep2d_M2P2f1_OVS_flash_iso75 ep2d_M2P2_OVS_flash_iso55 run new coil ep2d_M2P2_OVS_flash_iso46 ep2d_M2Px2_OVS_flash_iso46_fmri
				ep2d_M2P2f1_OVS_flash_iso75-fmri ep2d_M2Px2_OVS_flash_iso55_fmri