SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\Dixon_noBH
TA:0:24 PAT:Off Voxel size:2.2×2.2×3.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	On
Wait for user to start	Off
Start measurements	repeated

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	500 mm
FoV phase	75.0 %
Slice thickness	3.00 mm
TR	6.67 ms
TE 1	2.39 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BC

Contrast

Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	Water + fat images
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Off

Resolution

Base resolution	224
Phase resolution	71 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off
Slice resolution	100 %
Slice partial Fourier	5/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	64
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	On
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	Off
BO3	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Off - All
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	500 mm
A >> P	375 mm
F >> H	192 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	436.174 V
Gain	Low
Table position	30 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Off

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	On
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	440 Hz/Px
Readout mode	Bipolar
Optimization	In phase
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BC
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	7.8 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	2
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\Dixon_BH_17s
TA:0:17 PAT:Off Voxel size:2.2×2.2×4.5 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	500 mm
FoV phase	77.7 %
Slice thickness	4.50 mm
TR	6.69 ms
TE 1	2.39 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BC

Contrast

Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	Water + fat images
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Off

Resolution

Base resolution	224
Phase resolution	71 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off
Slice resolution	100 %
Slice partial Fourier	5/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	44
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	On
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	Off
BO3	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Off - All
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	500 mm
A >> P	389 mm
F >> H	198 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	436.174 V
Gain	Low
Table position	198 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	On
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	440 Hz/Px
Readout mode	Bipolar
Optimization	In phase
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BC
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	5.6 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	2
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\Dixon_BH_17s
TA:0:17 PAT:Off Voxel size:2.2×2.2×4.5 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	500 mm
FoV phase	77.7 %
Slice thickness	4.50 mm
TR	6.69 ms
TE 1	2.39 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BC

Contrast

Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	Water + fat images
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Off

Resolution

Base resolution	224
Phase resolution	71 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off
Slice resolution	100 %
Slice partial Fourier	5/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	44
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	On
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	Off
BO3	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Off - All
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	500 mm
A >> P	389 mm
F >> H	198 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	436.174 V
Gain	Low
Table position	366 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	On
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	440 Hz/Px
Readout mode	Bipolar
Optimization	In phase
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BC
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	5.6 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	2
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\Dixon_BH_17s
TA:0:17 PAT:Off Voxel size:2.2×2.2×4.5 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	500 mm
FoV phase	77.7 %
Slice thickness	4.50 mm
TR	6.69 ms
TE 1	2.39 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BC

Contrast

Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	Water + fat images
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Off

Resolution

Base resolution	224
Phase resolution	71 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off
Slice resolution	100 %
Slice partial Fourier	5/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	44
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	On
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	Off
BO3	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Off - All
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	500 mm
A >> P	389 mm
F >> H	198 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	436.174 V
Gain	Low
Table position	534 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	On
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	440 Hz/Px
Readout mode	Bipolar
Optimization	In phase
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BC
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	5.6 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	2
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\Dixon_noBH
TA:0:26 PAT:Off Voxel size:2.2×2.2×3.5 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	500 mm
FoV phase	72.3 %
Slice thickness	3.50 mm
TR	6.69 ms
TE 1	2.39 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BC

Contrast

Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	Water + fat images
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Off

Resolution

Base resolution	224
Phase resolution	71 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off
Slice resolution	100 %
Slice partial Fourier	5/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	72
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	On
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	Off
BO3	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Off - All
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	500 mm
A >> P	362 mm
F >> H	252 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	436.174 V
Gain	Low
Table position	732 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Off

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	On
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	440 Hz/Px
Readout mode	Bipolar
Optimization	In phase
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BC
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	8.1 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	2
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\Dixon_noBH
TA:0:22 PAT:Off Voxel size:2.2×2.2×4.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	500 mm
FoV phase	69.6 %
Slice thickness	4.00 mm
TR	6.69 ms
TE 1	2.39 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BC

Contrast

Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	Water + fat images
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Off

Resolution

Base resolution	224
Phase resolution	71 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off
Slice resolution	100 %
Slice partial Fourier	5/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	64
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	On
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	Off
BO3	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Off - All
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	500 mm
A >> P	349 mm
F >> H	256 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	436.174 V
Gain	Low
Table position	915 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Off

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	On
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	440 Hz/Px
Readout mode	Bipolar
Optimization	In phase
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BC
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	7.2 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	2
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\ShMOLLI_192i
LIVER
TA:7.2 s PAT:2 Voxel size:1.1×1.1×8.0 mm Rel. SNR:1.00 :tfi

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slice groups	1
Slices	1
Dist. factor	25 %
Position	R24.1 A1.1 F0.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	440 mm
FoV phase	75.0 %
Slice thickness	8.0 mm
TR	480.58 ms
TE	1.93 ms
Averages	1
Filter	Raw filter, Distortion Corr.(2D)
Coil elements	BO2,3;SP2,3

Contrast

Magn. preparation	Non-sel. IR
TI	270 ms
Flip angle	35 deg
Fat suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magn./Phase
Multiple series	Off

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	6/8
Trajectory	Cartesian
Interpolation	On
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
POCS	Off

Geometry

Nr. of slice groups	1
Slices	1
Dist. factor	25 %
Position	R24.1 A1.1 F200.3 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Multi-slice mode	Sequential
Series	Interl. in B.-h.
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	Off
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	On
BO3	On
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	On - AutoCoilSelect
Shim mode	Standard
Adjust with body coil	On
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	R24.1 A1.1 F200.3 mm
Rotation	0.00 deg
R >> L	440 mm
A >> P	330 mm
F >> H	8 mm
Frequency 1H	63.676629 MHz
Correction factor	1
PrepExc 1H	257.435 V
Gain	High
Table position	200 mm

Img. Scale. Cor.	1.000

Physio

1st Signal/Mode	ECG/Trigger
Average cycle	No Signal ms
Captured cycle	-not set-
Acquisition window	800 ms
Trigger pulse	1
Trigger delay	50 ms
Segments	84
Adaptive Triggering	Off
Tagging	None
Magn. preparation	Non-sel. IR
TI	270 ms
Dark blood	Off
Concatenations	1
Phases	1
Concatenations	1
Cine	Off
Trajectory	Cartesian
Inline Evaluation	Off
Resp. control	Breath-hold
Dummy heartbeats	0
Concatenations	1

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	2D
Averaging mode	Short term
Multi-slice mode	Sequential
Reordering	Linear
Asymmetric echo	Weak
Contrasts	1
Bandwidth	246 Hz/Px
Optimization	Min. TE TR
Allowed delay	0 s
Echo spacing	4.8 ms
Sequence type	Trufi
Define	Shots
Shots per slice	1
Trufi delta freq.	0 Hz
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.
Flip angle mode	Constant
Cine	Off
Parameter Map Type	T1 Map
No. of preps	3
TI start	170 ms
TI increment	50 ms
Conditional processing	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO2,3;SP2,3
Acquisition duration	0 ms
Mode	Off

BOLD

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	1
Save original images	On

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2\LMS IDEAL OPTIMISED LOW FLIP 6DYN

TA:9.7 s PAT:Off Voxel size:1.7×1.7×10.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	repeated

Routine

Nr. of slice groups	1
Slices	1
Dist. factor	20 %
Position	R24.1 A1.1 F0.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	440 mm
FoV phase	90.6 %
Slice thickness	10.0 mm
TR	14.0 ms
TE 1	1.20 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BO2,3;SP2,3

Contrast

MTC	Off
Magn. preparation	None
Flip angle	5 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Short term
Measurements	6
Pause after meas. 1	0.0 s
Reconstruction	Magn./Phase
Multiple series	Each measurement

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	On
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Nr. of slice groups	1
Slices	1
Dist. factor	20 %
Position	R24.1 A1.1 F200.3 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Multi-slice mode	Sequential
Series	Interleaved
Saturation mode	Standard
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	Off
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	On
BO3	On
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	R24.1 A1.1 F200.3 mm
Rotation	0.00 deg
R >> L	440 mm
A >> P	399 mm
F >> H	10 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	52.646 V
Gain	High
Table position	200 mm

Img. Scale. Cor.	1.000

Physio

1st Signal/Mode	None
Segments	1
Tagging	None
Magn. preparation	None
Dark blood	Off
Resp. control	Off

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	2D
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Off
Contrasts	6
Bandwidth 1	1560 Hz/Px
Flow comp. 1	No
Readout mode	Monopolar
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO2,3;SP2,3
Acquisition duration	0 ms
Mode	Off

BOLD

Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	6
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2
\t1_vibe_fs_tra_bh_pancreas_old
TA:0:14 PAT:2 Voxel size:1.2×1.2×1.6 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	R24.1 A1.1 F0.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	7.7 %
FoV read	380 mm
FoV phase	81.3 %
Slice thickness	1.60 mm
TR	3.11 ms
TE	1.15 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter
Coil elements	BO2,3;SP2,3

Contrast

Flip angle	10.0 deg
Fat suppr.	Q-fat sat.
Lines Per Shot	30
Water suppr.	None
Dixon	No Dixon
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

Resolution

Base resolution	320
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	On
Accel. factor 3D	1
Mode	2D
Unfiltered images	Off
Unfiltered images	On
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane
POCS	Off
Slice resolution	68 %
Slice partial Fourier	6/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	R24.1 A1.1 F200.3 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	7.7 %
Slices per slab	52
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Q-fat sat.
Water suppr.	None
Special sat.	Parallel F/H
Gap	10.0 mm
Thickness	80 mm
Special sat.	Parallel F/H
Table position	P

System

Body	Off
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	On
BO3	On
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	63.676629 MHz
Correction factor	1
CSatCSatSN 1H	63.388 V
Gain	Low
Table position	200 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Averaging mode	Short term
Multi-slice mode	Sequential
Reordering	Linear
Asymmetric echo	Weak
Contrasts	1
Bandwidth	650 Hz/Px
Optimization	Min. TE
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO2,3;SP2,3
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	5.0 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	1
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2
\t1_vibe_fs_tra_bh_pancreas_new
TA:0:17 PAT:Off Voxel size:1.7×1.7×2.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	R24.1 A1.1 F0.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	7.7 %
FoV read	380 mm
FoV phase	80.4 %
Slice thickness	2.00 mm
TR	2.97 ms
TE	1.03 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter
Coil elements	BO2,3;SP2,3

Contrast

Flip angle	10.0 deg
Fat suppr.	Q-fat sat.
Lines Per Shot	30
Water suppr.	None
Dixon	No Dixon
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

Resolution

Base resolution	224
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Unfiltered images	On
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane
POCS	Off
Slice resolution	68 %
Slice partial Fourier	6/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	R24.1 A1.1 F200.3 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	7.7 %
Slices per slab	52
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Q-fat sat.
Water suppr.	None
Special sat.	Parallel F/H
Gap	10.0 mm
Thickness	80 mm
Special sat.	Parallel F/H
Table position	P

System

Body	Off
BO1	Off
BO2	Off
BO3	Off
BO1	Off
BO2	On
BO3	On
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	Off
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	63.676629 MHz
Correction factor	1
CSatCSatSN 1H	63.061 V
Gain	Low
Table position	200 mm

Img. Scale. Cor.	1.000

Physio

Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Averaging mode	Short term
Multi-slice mode	Sequential
Reordering	Linear
Asymmetric echo	Weak
Contrasts	1
Bandwidth	640 Hz/Px
Optimization	Min. TE
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO2,3;SP2,3
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	5.6 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	1
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2
\ShMOLLI_192i_pancreas
TA:7.2 s PAT:2 Voxel size:1.1×1.1×8.0 mm Rel. SNR:1.00 :tfi

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slice groups	1
Slices	1
Dist. factor	25 %
Position	R5.4 P78.5 F0.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	440 mm
FoV phase	75.0 %
Slice thickness	8.0 mm
TR	480.58 ms
TE	1.93 ms
Averages	1
Filter	Raw filter, Distortion Corr.(2D)
Coil elements	BO1-3;SP2-5

Contrast

Magn. preparation	Non-sel. IR
TI	270 ms
Flip angle	35 deg
Fat suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magn./Phase
Multiple series	Off

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	6/8
Trajectory	Cartesian
Interpolation	On
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
POCS	Off

Geometry

Nr. of slice groups	1
Slices	1
Dist. factor	25 %
Position	R5.4 P78.5 F24.4 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Sequential
Series	Interl. in B.-h.
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	Off
BO1	On
BO2	On
BO3	On
SP5	On
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	On
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	On - AutoCoilSelect
Shim mode	Standard
Adjust with body coil	On
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	R5.4 P78.5 F24.4 mm
Rotation	0.00 deg
F >> H	440 mm
R >> L	330 mm
A >> P	8 mm
Frequency 1H	63.676629 MHz
Correction factor	1
PrepExc 1H	257.435 V
Gain	High
Table position	24 mm
Img. Scale. Cor.	1.000

Physio

1st Signal/Mode	ECG/Trigger
Average cycle	No Signal ms
Captured cycle	-not set-
Acquisition window	800 ms
Trigger pulse	1
Trigger delay	50 ms
Segments	84
Adaptive Triggering	Off
Tagging	None
Magn. preparation	Non-sel. IR
TI	270 ms
Dark blood	Off
Concatenations	1
Phases	1
Concatenations	1
Cine	Off
Trajectory	Cartesian
Inline Evaluation	Off
Resp. control	Breath-hold
Dummy heartbeats	0
Concatenations	1

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	2D
Averaging mode	Short term
Multi-slice mode	Sequential
Reordering	Linear
Asymmetric echo	Weak
Contrasts	1
Bandwidth	246 Hz/Px
Optimization	Min. TE TR
Allowed delay	0 s
Echo spacing	4.8 ms
Sequence type	Trufi
Define	Shots
Shots per slice	1
Trufi delta freq.	0 Hz
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.
Flip angle mode	Constant
Cine	Off
Parameter Map Type	T1 Map
No. of preps	3
TI start	170 ms
TI increment	50 ms
Conditional processing	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO1-3;SP2-5
Acquisition duration	0 ms
Mode	Off

BOLD

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	1
Save original images	On

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2
\gre_multi_echo_10_TE_pancreas
TA:8.7 s PAT:Off Voxel size:2.5×2.5×6.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slice groups	1
Slices	1
Dist. factor	20 %
Position	R5.4 P78.5 F0.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	400 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
TR	27.0 ms
TE 1	2.38 ms
Averages	2
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BO1-3;SP2-5

Contrast

MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magn./Phase
Multiple series	Each measurement

Resolution

Base resolution	160
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Nr. of slice groups	1
Slices	1
Dist. factor	20 %
Position	R5.4 P78.5 F24.4 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interl. in B.-h.
Saturation mode	Standard
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	Off
BO1	On
BO2	On
BO3	On
SP5	On
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	On
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Coil Select Mode	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	R5.4 P78.5 F24.4 mm
Rotation	0.00 deg
F >> H	400 mm
R >> L	400 mm
A >> P	6 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	48.994 V
Gain	High
Table position	24 mm
Img. Scale. Cor.	1.000

Physio

1st Signal/Mode	None
Segments	1
Tagging	None
Magn. preparation	None
Dark blood	Off
Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	2D
Averaging mode	Short term
Multi-slice mode	Interleaved
Asymmetric echo	Off
Contrasts	10
Bandwidth 1	710 Hz/Px
Flow comp. 1	No
Readout mode	Monopolar
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO1-3;SP2-5
Acquisition duration	0 ms
Mode	Off

BOLD

Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	10
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2
\t1_vibe_fs_cor_bh_kidney
TA:0:19 PAT:Off Voxel size:1.0×1.0×2.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	R24.1 A1.1 F0.3 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	20 %
Slice oversampling	0.0 %
FoV read	380 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	3.22 ms
TE	0.98 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter
Coil elements	BO2,3;BO1,2;SP2-5

Contrast

Flip angle	9.0 deg
Fat suppr.	Q-fat sat.
Lines Per Shot	22
Water suppr.	None
Dixon	No Dixon
Save original images	On
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	On
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Unfiltered images	On
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane
POCS	Off
Slice resolution	80 %
Slice partial Fourier	5/8

Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	R24.1 A1.1 F200.3 mm
Phase enc. dir.	R >> L
Phase oversampling	20 %
Slice oversampling	0.0 %
Slices per slab	40
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Q-fat sat.
Water suppr.	None
Special sat.	Parallel A/P
Gap	10.0 mm
Thickness	80 mm
Special sat.	Parallel A/P
Table position	P

System

Body	Off
BO1	Off
BO2	On
BO3	On
BO1	On
BO2	On
BO3	Off
SP5	On
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	On
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Coil Select Mode	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	63.676629 MHz
Correction factor	1
CSatCSatSN 1H	56.487 V
Gain	Low
Table position	200 mm

Img. Scale. Cor.	10.000

Physio

Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Averaging mode	Short term
Multi-slice mode	Sequential
Reordering	Linear
Asymmetric echo	Weak
Contrasts	1
Bandwidth	640 Hz/Px
Optimization	Min. TE
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO2,3;BO1,2;SP2-5
Acquisition duration	0 ms
Mode	Off

BOLD

3D centric reordering	Off
Time to center	6.2 s
Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	1
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2
\ShMOLLI_192i_kidney
TA:6.6 s PAT:2 Voxel size:0.8×0.8×6.0 mm Rel. SNR:1.00 :tfi

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slice groups	1
Slices	1
Dist. factor	25 %
Position	R2.3 P79.8 F0.3 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
TR	504.94 ms
TE	1.41 ms
Averages	1
Filter	Raw filter, Distortion Corr.(2D)
Coil elements	BO2,3;BO1,2;SP2-5

Contrast

Magn. preparation	Non-sel. IR
TI	256 ms
Flip angle	35 deg
Fat suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magn./Phase
Multiple series	Off

Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	6/8
Trajectory	Cartesian
Interpolation	On
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
POCS	Off

Geometry

Nr. of slice groups	1
Slices	1
Dist. factor	25 %
Position	R2.3 P79.8 F545.3 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Sequential
Series	Interl. in B.-h.
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	Off
BO1	Off
BO2	On
BO3	On
BO1	On
BO2	On
BO3	Off
SP5	On
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	On
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Coil Select Mode	Off - All
Shim mode	Standard
Adjust with body coil	On
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	R2.3 P79.8 F545.3 mm
Rotation	0.00 deg
F >> H	384 mm
R >> L	384 mm
A >> P	6 mm
Frequency 1H	63.676629 MHz
Correction factor	1
PrepExc 1H	257.435 V
Gain	High
Table position	545 mm

Img. Scale. Cor.	1.000

Physio

1st Signal/Mode	ECG/Trigger
Average cycle	No Signal ms
Captured cycle	-not set-
Acquisition window	731 ms
Trigger pulse	1
Trigger delay	0 ms
Segments	140
Adaptive Triggering	Off
Tagging	None
Magn. preparation	Non-sel. IR
TI	256 ms
Dark blood	Off
Concatenations	1
Phases	1
Concatenations	1
Cine	Off
Trajectory	Cartesian
Inline Evaluation	Off
Resp. control	Breath-hold
Dummy heartbeats	0
Concatenations	1

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	2D
Averaging mode	Short term
Multi-slice mode	Sequential
Reordering	Linear
Asymmetric echo	Weak
Contrasts	1
Bandwidth	501 Hz/Px
Optimization	Min. TE TR
Allowed delay	0 s
Echo spacing	3.4 ms
Sequence type	Trufi
Define	Shots
Shots per slice	1
Trufi delta freq.	0 Hz
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.
Flip angle mode	Constant
Cine	Off
Parameter Map Type	T1 Map
No. of preps	3
TI start	156 ms
TI increment	50 ms
Conditional processing	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO2,3;BO1,2;SP2-5
Acquisition duration	0 ms
Mode	Off

BOLD

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	1
Save original images	On

SIEMENS MAGNETOM Aera syngo MR D13

\\USER\UKBiobank\abdomen\Biobank_Abdomen_20211123_VIBE2
\gre_multi_echo_12_TE_kidney
TA:0:16 PAT:2 Voxel size:0.8×0.8×6.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

Routine

Nr. of slice groups	1
Slices	1
Dist. factor	20 %
Position	R2.3 P79.8 F0.3 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	50 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
TR	80.0 ms
TE 1	4.76 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	BO2,3;BO1,2;SP2-5

Contrast

MTC	Off
Magn. preparation	None
Flip angle	25 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magn./Phase
Multiple series	Each measurement

Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	On
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Nr. of slice groups	1
Slices	1
Dist. factor	20 %
Position	R2.3 P79.8 F545.3 mm
Phase enc. dir.	R >> L
Phase oversampling	50 %
Multi-slice mode	Interleaved
Series	Interl. in B.-h.
Saturation mode	Standard
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Table position	P

System

Body	Off
BO1	Off
BO2	On
BO3	On
BO1	On
BO2	On
BO3	Off
SP5	On
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	On
SP3	On
SP4	On
Position mode	L-P-H
Positioning mode	ISO
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Coil Select Mode	On - AutoCoilSelect
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	R2.3 P79.8 F545.3 mm
Rotation	0.00 deg
F >> H	384 mm
R >> L	384 mm
A >> P	6 mm
Frequency 1H	63.676629 MHz
Correction factor	1
SRFExcit 1H	61.242 V
Gain	High
Table position	545 mm

Img. Scale. Cor.	1.000

Physio

1st Signal/Mode	None
Segments	1
Tagging	None
Magn. preparation	None
Dark blood	Off
Resp. control	Breath-hold

Inline

Distortion correction	Off

Sequence

Introduction	Off
Dimension	2D
Averaging mode	Short term
Multi-slice mode	Interleaved
Asymmetric echo	Off
Contrasts	12
Bandwidth 1	810 Hz/Px
Flow comp. 1	No
Readout mode	Monopolar
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	BO2,3;BO1,2;SP2-5
Acquisition duration	0 ms
Mode	Off

BOLD

Subtract	Off
Liver registration	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Contrasts	12
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off