

Knee Tumor (Adult) SIGNA Architect

Technical Instructions

--Power Inj/Subtractions

LT-3-Plane Loc

RT-3-Plane Loc

Cor T2 FAT DL

Sag T2 FAT DL

Ax T2 FAT DL

Ax T1 DL

Cor T1 DL

Ax T1 Lava-Flex Pre

Ax T1 Lava-Flex 2min

Cor T1 Lava-Flex Post

Sag T1 Lava-Flex Post

+C Ax T1 FAT DL

LT-3-Plane Loc

Details tab

Protocol notes

LT-3-Plane Loc

PATIENT POSITION

Coil Configuration:Neo16chFlexL

Plane:3-PLANE

IMAGING PARAMETERS

Imaging Mode:2D

Imaging Options:Seq, EDR, TRF, Fast, SS, ARC

Pulse Sequence:Spin Echo

ARC Phase:2.00

Image Recon

Recon DL Strength:Off

Intensity Correction:NONE

Intensity Filter:None

Save Original:Off

SCAN RANGE

FOV:28.0

Slice Thickness:8.00

Slice Spacing:5.0

Overlap Locations:0

No Phase Wrap:2.00

ACQ TIMING

Acq Voxel Size:	0.7 X 1.1 X 8.0
Freq:	384
Phase:	256
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

SCAN TIMING

TE:	82.5
Number of Echoes:	1
TR:	Minimum
Receiver Bandwidth:	62.50

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Knee
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USER CVS

User CV1:	1.00
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RT-3-Plane Loc

[Details tab](#)[Protocol notes](#)

RT-3-Plane Loc

PATIENT POSITION

Coil Configuration:	Neo16chFlexL
Plane:	3-PLANE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	Seq, EDR, TRF, Fast, SS, ARC
Pulse Sequence:	Spin Echo
ARC Phase:	2.00

Image Recon

Intensity Correction:	NONE
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	28.0
Slice Thickness:	8.0
Slice Spacing:	5.0
No Phase Wrap:	2.00

ACQ TIMING

Acq Voxel Size: **0.7 X 1.1 X 8.0**

Freq: 384

Phase: 256

Freq DIR: Unswap

of Acq. Before Pause: 0

Phase FOV: 1.00

Auto Shim: Auto

Phase Correct: Off

RF Drive Mode: Preset

Excitation Mode: Selective

SCAN TIMING

TE: 80.0

Number of Echoes: 1

TR: Minimum

Receiver Bandwidth: 62.50

CONTRAST

Contrast Yes/No: No

OTHERS

Anatomical Region: Knee

GATING/TRIGGER

Auto Trigger Type: Off

USER CVS

User CV1:	1.00
User CV16:	None
User CV39:	1.00

Non-Viewable Parameters

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Cor T2 FAT DL

Details tab

Protocol notes

Cor T2 FAT DL

PATIENT POSITION

Coil Configuration:Neo16chFlexL

Plane:OBLIQUE

IMAGING PARAMETERS

Imaging Mode:2D

Imaging Options:EDR, TRF, Fast, FR

Pulse Sequence:FSE-XL

Image Recon

Recon DL Strength:Medium

Intensity Correction:SCENIC

Intensity Filter:None

Save Original:Off

SCAN RANGE

FOV:16.0

Slice Thickness:4.00

Slice Spacing:1.0

Overlap Locations:0

Number of Slices:20

No Phase Wrap:2.00

ACQ TIMING

Acq Voxel Size:	0.5 X 0.6 X 4.0
Freq:	352
Phase:	256
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective
Fat Shift DIR:	Normal (R)

SCAN TIMING

Flip Angle:	111
TE:	80.0
Number of Echoes:	1
TR:	2800.0
Echo Train Length:	19
Receiver Bandwidth:	62.50

AIRx

Anatomical Reference:	None
Anatomical Plane:	None

CONTRAST

Contrast Yes/No:	No
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OTHERS

3D Geometry Correction:	Off
Anatomical Region:	Knee

SAT

Fat/Water Saturation:	Fat
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USER CVS

User CV6:	None
User CV9:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV30:	1.00
User CV41:	None

Non-Viewable Parameters	ñ
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Sag T2 FAT DL

Details tab

Protocol notes

Sag T2 FAT DL

PATIENT POSITION

Coil Configuration:	Neo16chFlexL
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast, FR
Pulse Sequence:	FSE-XL

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	16.0
Slice Thickness:	4.00
Slice Spacing:	1.0
Overlap Locations:	0
Number of Slices:	19
No Phase Wrap:	1.00

ACQ TIMING

Acq Voxel Size:	0.5 X 0.6 X 4.0
Freq:	352
Phase:	256
Freq DIR:	A/P
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective
Fat Shift DIR:	Normal (P)

SCAN TIMING

Flip Angle:	111
TE:	80.0
Number of Echoes:	1
TR:	3500.0
Echo Train Length:	21
Receiver Bandwidth:	62.50

AIRx

Anatomical Reference:	None
Anatomical Plane:	None

CONTRAST

Contrast Yes/No:	No
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OTHERS

3D Geometry Correction:	Off
Anatomical Region:	Knee

SAT

Fat/Water Saturation:	Fat
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USER CVS

User CV6:	None
User CV9:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV30:	1.00
User CV41:	None

Non-Viewable Parameters	$\tilde{n}$
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Ax T2 FAT DL

Details tab

Protocol notes

Ax T2 FAT DL

PATIENT POSITION

Coil Configuration:	Neo16chFlexL
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	FC, TRF, Fast, FR
Pulse Sequence:	FSE-XL

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	14.0
Slice Thickness:	4.00
Slice Spacing:	1.0
Overlap Locations:	0
Number of Slices:	38
No Phase Wrap:	1.00

ACQ TIMING

Acq Voxel Size:	0.4 X 0.5 X 4.0
Freq:	352
Phase:	256
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
Flow Comp Direction:	Slice
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111
TE:	85.0
Number of Echoes:	1
TR:	4500.0
Echo Train Length:	19
Receiver Bandwidth:	62.50

AIRx

Anatomical Reference:	None
Anatomical Plane:	None

CONTRAST

Contrast Yes/No:	No
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OTHERS

3D Geometry Correction:	Off
Anatomical Region:	Knee

SAT

SAT Location S:	Default
SAT Location I:	Default
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV30:	1.00
User CV41:	None

Ax T1 DL

Details tab

Protocol notes

Ax T1 DL

PATIENT POSITION

Coil Configuration:	Neo16chFlexL
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast
Pulse Sequence:	FSE-XL

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	14.0
Slice Thickness:	4.00
Slice Spacing:	1.0
Overlap Locations:	0
Number of Slices:	38
No Phase Wrap:	1.00

ACQ TIMING

Acq Voxel Size:	0.4 X 0.5 X 4.0
Freq:	320
Phase:	256
Freq DIR:	R/L
NEX:	1.00
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	20.0
Number of Echoes:	1
TR:	661.0
Echo Train Length:	5
Receiver Bandwidth:	62.50

AIRx

Anatomical Reference:	None
Anatomical Plane:	None

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Knee
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SAT

SAT Location S:	Default
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SAT Location I:	Default
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USER CVS

User CV6:	None
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User CV9:	None
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User CV15:	None
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User CV16:	None
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User CV18:	None
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User CV21:	1.00
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User CV26:	1.00
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User CV41:	None
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TR Min:	500.0
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TR Max:	850.0
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Non-Viewable Parameters

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Cor T1 DL

Details tab

Protocol notes

Cor T1 DL

PATIENT POSITION

Coil Configuration:	Neo16chFlexL
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast, ARC
Pulse Sequence:	FSE-XL
ARC Phase:	2.00

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	16.0
Slice Thickness:	4.00
Slice Spacing:	1.0
Overlap Locations:	0
Number of Slices:	20

No Phase Wrap:

2.00

ACQ TIMING

Acq Voxel Size:	0.4 X 0.5 X 4.0
Freq:	384
Phase:	320
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective
Fat Shift DIR:	Normal (I)

SCAN TIMING

Flip Angle:	111
TE:	20.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	5
Receiver Bandwidth:	62.50

AIRx

Anatomical Reference:	None
Anatomical Plane:	None

CONTRAST

Contrast Yes/No:	No
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OTHERS

3D Geometry Correction:	Off
Anatomical Region:	Knee

SAT

SAT Location S:	Default
SAT Location I:	Default

USER CVS

User CV6:	None
User CV9:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV21:	1.00
User CV30:	1.00
User CV41:	None

Non-Viewable Parameters

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Ax T1 Lava-Flex Pre

Details tab

Protocol notes

Ax T1 Lava-Flex Pre

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, GE16chTDIAA
Plane:	AXIAL

IMAGING PARAMETERS

Imaging Mode:	3D
Imaging Options:	EDR, Fast, ZIP512, ARC, Flex
Pulse Sequence:	LAVA
IDEAL:	15
ARC Phase:	2.00
ARC Slice:	1.50

Image Recon

Recon DL Strength:	Off
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	On

SCAN RANGE

FOV:	28.0
Slice Thickness:	1.50
Slices per Slab:	172
Overlap Locations:	0

No Slab Wrap:	1.05
No Phase Wrap:	1.00
Slice Resolution(%):	50.00

ACQ TIMING

Acq Voxel Size:	1.2 X 1.3 X 3.0
Freq:	236
Phase:	220
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

SCAN TIMING

Flip Angle:	15.0
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	142.86

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

3D Geometry Correction:	On
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Anatomical Region: **Thigh**

USER CVS

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00
User CV40:	None

Non-Viewable Parameters

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Ax T1 Lava-Flex 2min

Details tab

Protocol notes

Ax T1 Lava-Flex 2min

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, GE16chTDIAA
Plane:	AXIAL

IMAGING PARAMETERS

Imaging Mode:	3D
Imaging Options:	EDR, Fast, MPh, ZIP512, ARC, Flex
Pulse Sequence:	LAVA
IDEAL:	3
ARC Phase:	2.00
ARC Slice:	1.50

Image Recon

Recon DL Strength:	Off
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	On

SCAN RANGE

FOV:	28.0
Slice Thickness:	1.50
Slices per Slab:	172
Overlap Locations:	0

<i>No Slab Wrap:</i>	<i>1.05</i>
No Phase Wrap:	1.00
Slice Resolution(%):	50.00

ACQ TIMING

Acq Voxel Size:	1.2 X 1.3 X 3.0
Freq:	236
Phase:	220
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

SCAN TIMING

Flip Angle:	15.0
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	142.86

MULTI-PHASE

Seperate Series:	0
Trigger Delay without AV:	0
Mask Phase:	Off
Mask Pause:	Off

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

3D Geometry Correction:	On
Anatomical Region:	Thigh

USER CVS

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00
User CV40:	None

Non-Viewable Parameters	ñ
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Cor T1 Lava-Flex Post

Details tab

Protocol notes

Cor T1 Lava-Flex Post

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, GE16chTDIAA
Plane:	CORONAL

IMAGING PARAMETERS

Imaging Mode:	3D
Imaging Options:	EDR, Fast, ZIP512, ARC, Flex
Pulse Sequence:	LAVA
IDEAL:	3
ARC Phase:	2.00
ARC Slice:	2.00

Image Recon

Recon DL Strength:	Off
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	On

SCAN RANGE

FOV:	28.0
Slice Thickness:	1.50
Slices per Slab:	172
Overlap Locations:	0

<i>No Slab Wrap:</i>	<i>1.05</i>
No Phase Wrap:	1.50
Slice Resolution(%):	50.00

ACQ TIMING

Acq Voxel Size:	1.2 X 1.3 X 3.0
Freq:	236
Phase:	220
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

SCAN TIMING

Flip Angle:	15
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	142.86

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

3D Geometry Correction:	On
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Anatomical Region: *Thigh*

USER CVS

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00
User CV40:	None

Non-Viewable Parameters

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Sag T1 Lava-Flex Post

Details tab

Protocol notes

Sag T1 Lava-Flex Post

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, GE16chTDIAA
Plane:	SAGITTAL

IMAGING PARAMETERS

Imaging Mode:	3D
Imaging Options:	EDR, Fast, ZIP512, ARC, Flex
Pulse Sequence:	LAVA
IDEAL:	3
ARC Phase:	2.00
ARC Slice:	2.00

Image Recon

Recon DL Strength:	Off
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	On

SCAN RANGE

FOV:	28.0
Slice Thickness:	1.50
Slices per Slab:	172
Overlap Locations:	0

No Slab Wrap:	1.05
No Phase Wrap:	1.50
Slice Resolution(%):	50.00

ACQ TIMING

Acq Voxel Size:	1.2 X 1.3 X 3.0
Freq:	236
Phase:	220
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

SCAN TIMING

Flip Angle:	15.0
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	142.86

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

3D Geometry Correction:	On
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Anatomical Region: *Thigh*

USER CVS

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00
User CV40:	None

Non-Viewable Parameters

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+C Ax T1 FAT DL

Details tab

Protocol notes

+C Ax T1 FAT DL

PATIENT POSITION

Coil Configuration: Neo16chFlexL

Plane: OBLIQUE

IMAGING PARAMETERS

Imaging Mode: 2D

Imaging Options: EDR, TRF, Fast, ARC

Pulse Sequence: FSE-XL

ARC Phase: 1.50

Image Recon

Recon DL Strength: Medium

Intensity Correction: SCENIC

Intensity Filter: None

Save Original: Off

SCAN RANGE

FOV: 14.0

Slice Thickness: 4.00

Slice Spacing: 1.0

Overlap Locations: 0

Number of Slices: 38

No Phase Wrap:

1.00

ACQ TIMING

Acq Voxel Size:	0.4 X 0.6 X 4.0
Freq:	352
Phase:	224
Freq DIR:	R/L
NEX:	1.00
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	20.0
Number of Echoes:	1
TR:	725.0
Echo Train Length:	4
Receiver Bandwidth:	50.00

AIRx

Anatomical Reference:	None
Anatomical Plane:	None

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

Anatomical Region:	Knee
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SAT

Fat/Water Saturation:	Fat
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USER CVS

User CV6:	None
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User CV9:	None
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User CV15:	None
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User CV16:	None
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User CV18:	None
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User CV19:	1.00
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User CV21:	1.00
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User CV26:	1.00
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User CV41:	None
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TR Min:	500.0
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TR Max:	850.0
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Non-Viewable Parameters**ñ**