

Study Name: 2019 RSS: SBRT Pancreas

Participant Name: Paul Barry

Participant Email: paulcbarry81@gmail.com

Participant Role: dosimetrist

Participant Institution: Elekta

Created: Fri Mar 08 2019 23:38:54 GMT+0000

TPS Manufacturer: CMS, Inc.

TPS Model: Monaco

Number of Treatment Beams: 2

Radiation Type(s): Photon

Delivery Type(s): VMAT



METRIC	RESULT	MIN REQ				IDEAL	PERFORMANCE (PTS)	WEIGHT
Dose (Gy) covering 95 (%) of the PTV3300	32.923	20	<b>₹</b> 28	2p 25 30	20p	33	GOOD (19.95)	20.00
Volume (%) of the PTV3300 covered by 20 (Gy)	99.986	95	<b>₹</b>		5p 100	100	ACCEPTABLE (4.99)	5.00
Dose (Gy) covering whole GTVP minus 0.03 (cc)	37.924	30	<b>₹</b> 98	4p  33	5p 35	35 🎸	IDEAL (5.00)	5.00
Dose (Gy) covering 90 (%) of the GTVP	44.000	25	<b>₹</b> 000	3B	20p 33	33 🎸	IDEAL (20.00)	20.00
Dose (Gy) covering 90 (%) of the TVI	38.167	33	<b>₹</b> 0p		10p 35	35 🎸	IDEAL (10.00)	10.00
Conformation Number [33 (Gy), PTV3300]	0.891	0.6	<b>⊘</b> 0p 0.6	2p 0.7   0.8	20p	1	GOOD (17.82)	20.00
Structure(s) containing the global max dose point	(5 values)	PTV3300	✓	4.2p CTV3300		GTVP 🎸	IDEAL (7.00)	7.00
Volume (cc) of the DUODENUM covered by 15 (Gy)	4.850	20	<b>₹</b> 28	4.8p	6p 0	0	GOOD (5.35)	6.00
Volume (cc) of the DUODENUM covered by 20 (Gy)	2.252	10	<b>₹</b>	5.6p	7p	0	GOOD (5.95)	7.00
Volume (cc) of the DUODENUM covered by 33 (Gy)	0.094	3	<b>⊘</b> 0p	6.4p	8p 0	0	GOOD (7.85)	8.00
Volume (cc) of the STOMACH covered by 15 (Gy)	3.201	20	<b>₹</b> 28	4 <sub>P</sub>	5p	0	GOOD (4.64)	5.00
Volume (cc) of the STOMACH covered by 20 (Gy)	0.225	10	<b>₹</b>	4.8p  3	6p 0	0	GOOD (5.91)	6.00
Volume (cc) of the STOMACH covered by 33 (Gy)	0.000	3	<b>⊘</b> 0p	5.6p 1	7p	0 🎸	IDEAL (7.00)	7.00
Volume (cc) of the SMALLBOWEL covered by 15 (Gy)	0.097	20	<b>₹</b> 200	3.2p	4p 0	o	GOOD (3.99)	4.00
Volume (cc) of the SMALLBOWEL covered by 20 (Gy)	0.000	10	<b>₹</b>	4p  3	5p	о 🧹	IDEAL (5.00)	5.00
Volume (cc) of the SMALLBOWEL covered by 33 (Gy)	0.000	3	<b>⊘</b> 0p	4.8p	6p 0	о 🧹	IDEAL (6.00)	6.00
Volume (%) of the LIVER covered by 12 (Gy)	1.295	< 50	<b>O</b> p	< 50	Зр	⋞	IDEAL (3.00)	3.00
Volume (%) of the BILATKIDNEY covered by 12 (Gy)	16.206	< 75	<b>O</b> p	< 75	Зр	⋞	IDEAL (3.00)	3.00
Volume (cc) of the SPINALCORD covered by 20 (Gy)	0.000	< 1	<b>O</b> p	< 1	Зр	⋞	IDEAL (3.00)	3.00
Cumulative meterset over all treatment beams	3741.772			-				
Estimated 'beam-on' time, all beams (minutes)				-				
TOTALS		19 (of 19)				10 (of 19)	145.45	150.00



## ----- PATIENT DATA SUMMARY ------

RT PLAN: Yes

Patient Name: ASM PANCREAS 2019 Final Patient ID: ASM PANCREAS 2019 Final

Plan Name: VMAT2 Plan Label: 01 AVMAT2 Study ID: ASM\_PANCREAS Patient Position: HeadFirstSupine Manufacturer: CMS, Inc.

Model Name: Monaco

Number of Beams: 2 [2 treatment, 0 setup, 0 port, 0 other] Number of Fraction Groups: 1 [5 Fx]

RT DOSE: Yes

Patient Name: ASM PANCREAS 2019 Final Patient ID: ASM PANCREAS 2019 Final

Patient ID: ASM\_PANCREAS\_2019 Final Study ID: ASM\_PANCREAS\_ Patient Position (Derived): HeadFirstSupine Patient Position (Requested): HeadFirstSupine Manufacturer: CMS, Inc. Model Name: Monaco Global Max Dose (Gy): 55.27982 X (mm): -224.0 to 226.0 step 2.0 Y (mm): -98.0 to 134.0 step 2.0 Z (mm): -178.0 to 130.0 step 2.0 DICOM Origin (mm): (-2.90, 23.40, -40.00)

RT STRUCTURE SET: Yes Patient Name: ASM\_PANCREAS\_2019 Final Patient ID: ASM PANCREAS 20T9 Final

Structure Set Label: RTstruct Study ID: ASM\_PANCREAS

Patient Position (Requested): HeadFirstSupine Number of Structures: 21 [21 contour-based, 0 points]

IMAGE SET: Yes

Patient Name: ASM PANCREAS 2019 Final Patient ID: ASM PANCREAS 2019 Final

Study ID: ASM PANCREAS

Patient Position (Derived): HeadFirstSupine

Patient Position (Requested): HeadFirstSupine

Modality: ComputedTomography

Axial Slices: 117 [2 mm spacing]





DICO.		
 DICOM	Alerts	

Inconsistency in Plan <-> Structure Set: The current RT Plan does not reference the SOP Instance UID of the current RT Structure Set.



Performance Bins + PlaniQ™

ProKnow + Sun Nuclear

BEAM [#] NAME

[1] 1 [2] 2 MACHINE

VersaHD VersaHD MODALITY

VMAT VMAT ENERGY

10 MV 10 MV **METERSET** 

1908.575 MU 1833.197 MU

3741.772 (TOTAL)

MODIFIERS

BEAM-ON TIME (Est.)

Invalid Dose Rate Invalid Dose Rate

N/A (TOTAL)

BEAM [#] NAME

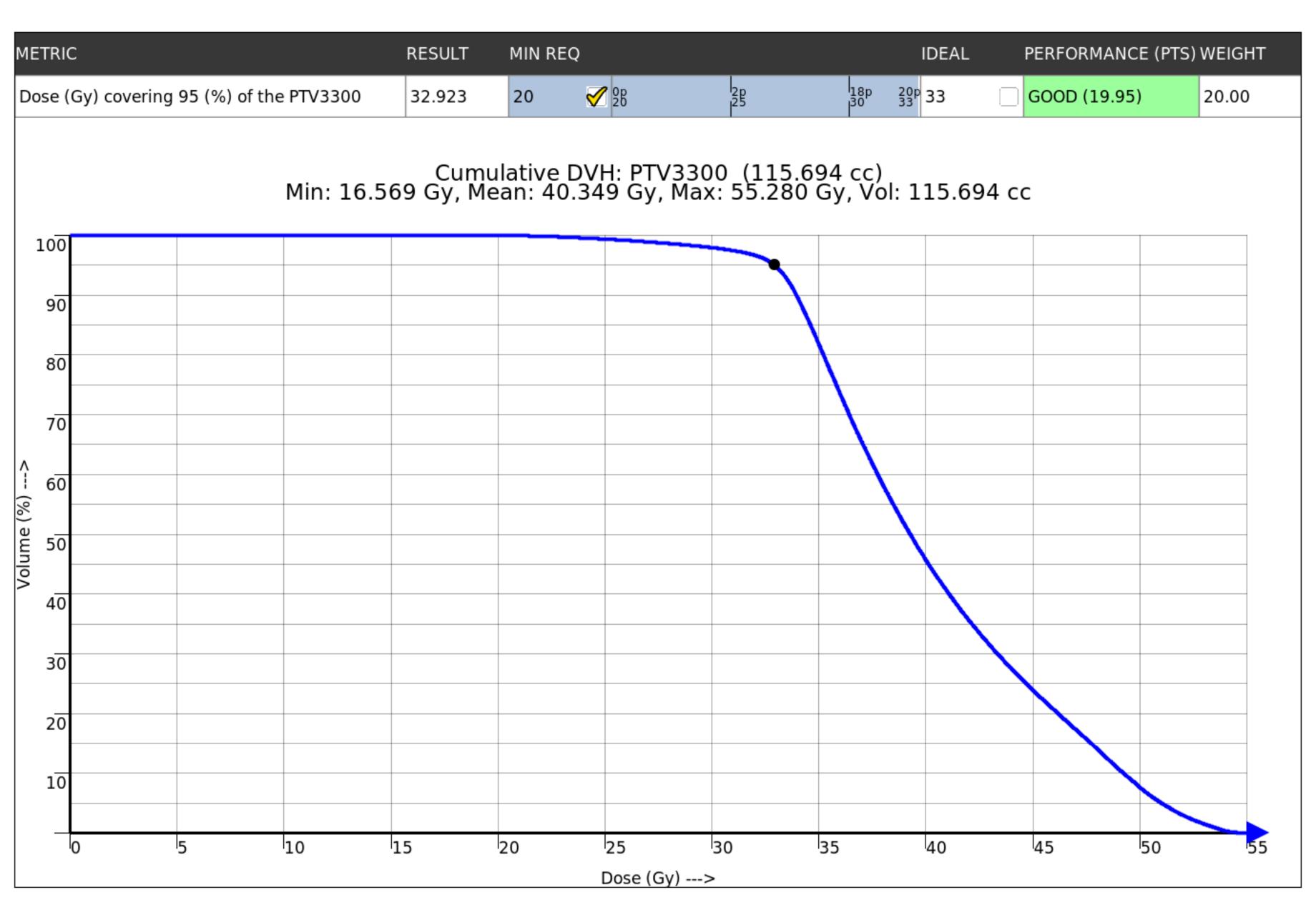
[1] 1 [2] 2 ISOCENTER

0, 0, 0 (DICOM -2.9, 23.4, -40) 0, 0, 0 (DICOM -2.9, 23.4, -40) GEOMETRY

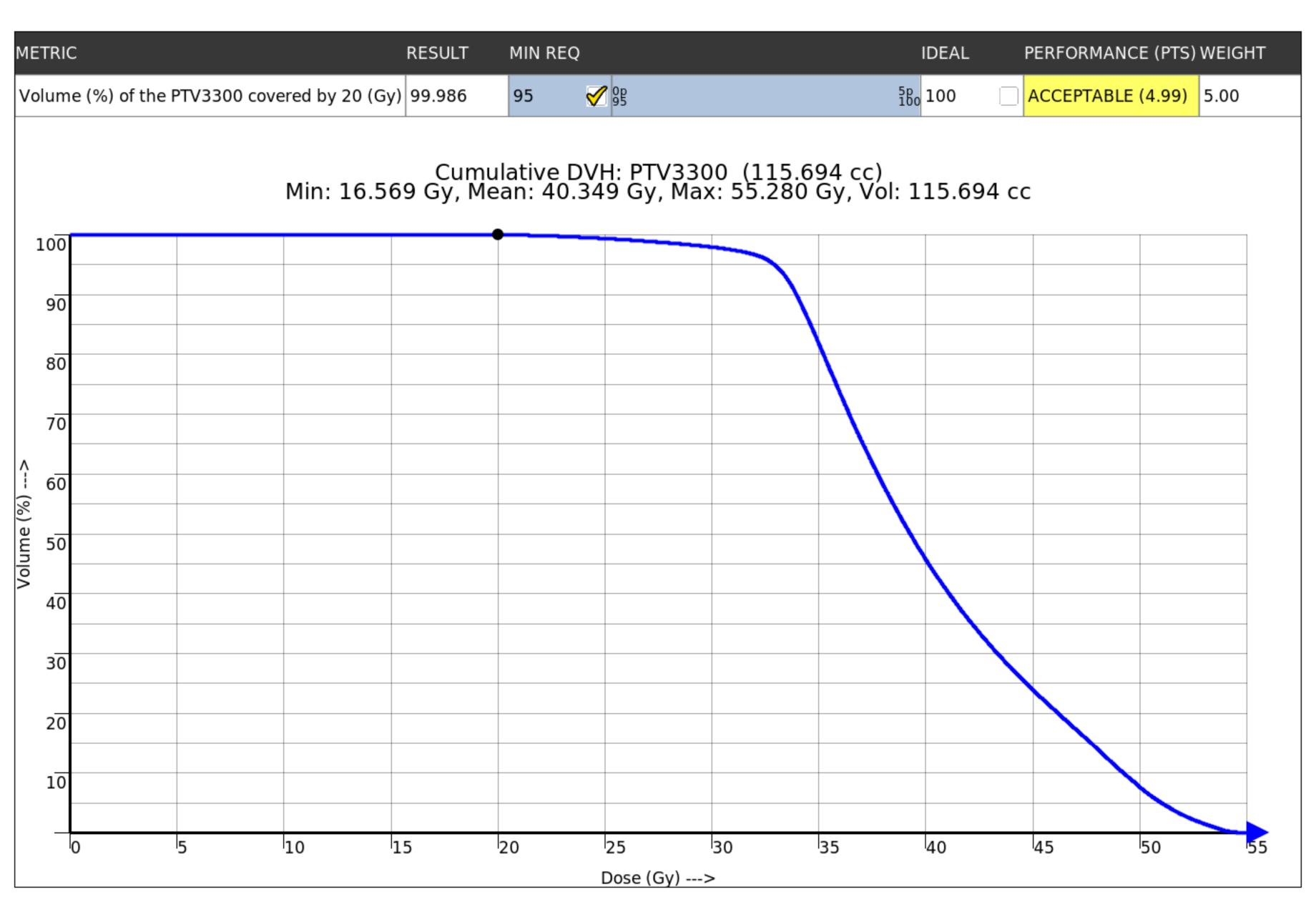
Gantry (Dynamic CW and CCW): 180 to 180, Collimator: 0, Cójachis\*Q MLC (X)

Gantry (Dynamic CW and CCW): 185.4 to 180, Collimator: 98,J@ws€hMQC (X)

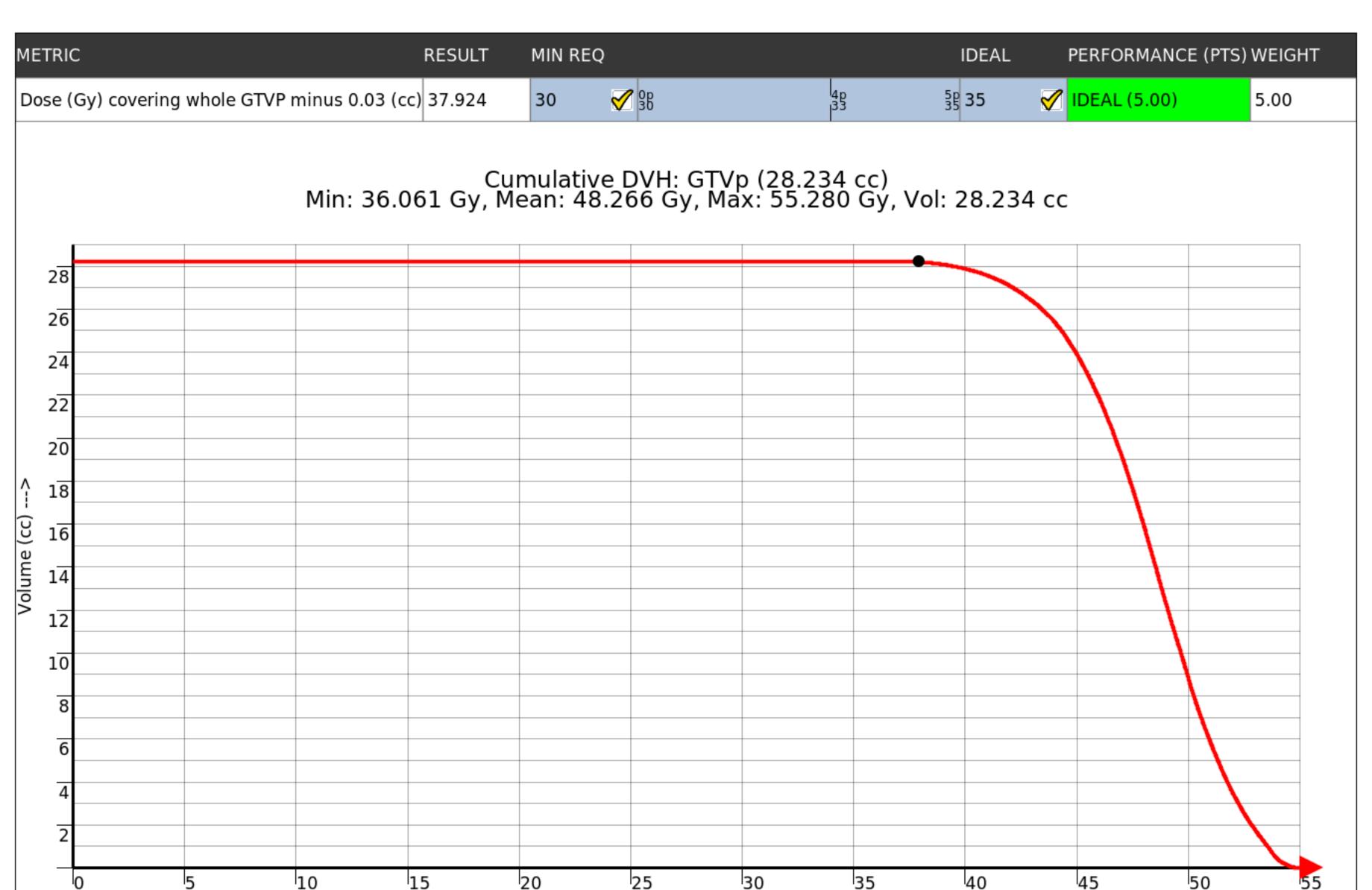






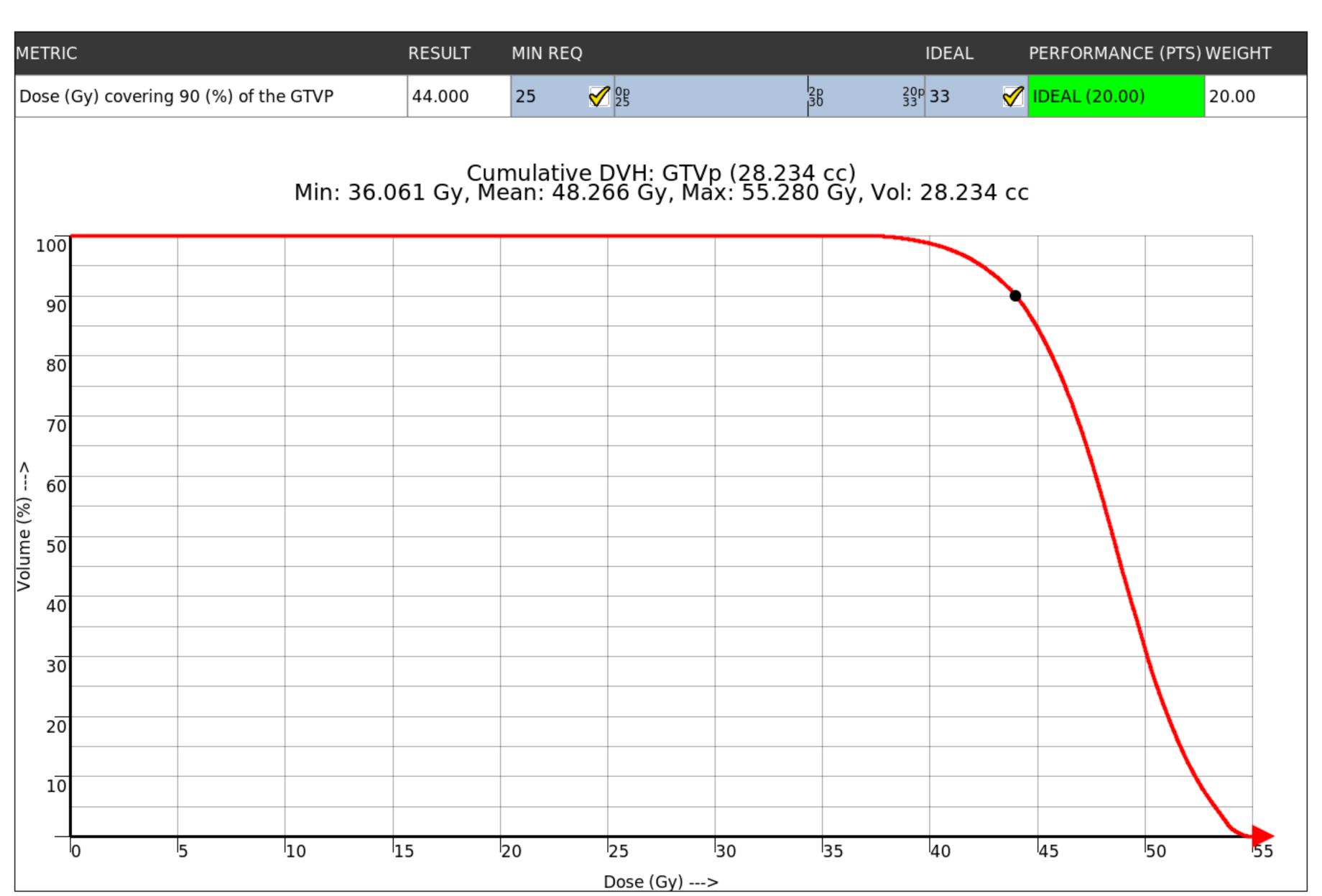






Dose (Gy) --->



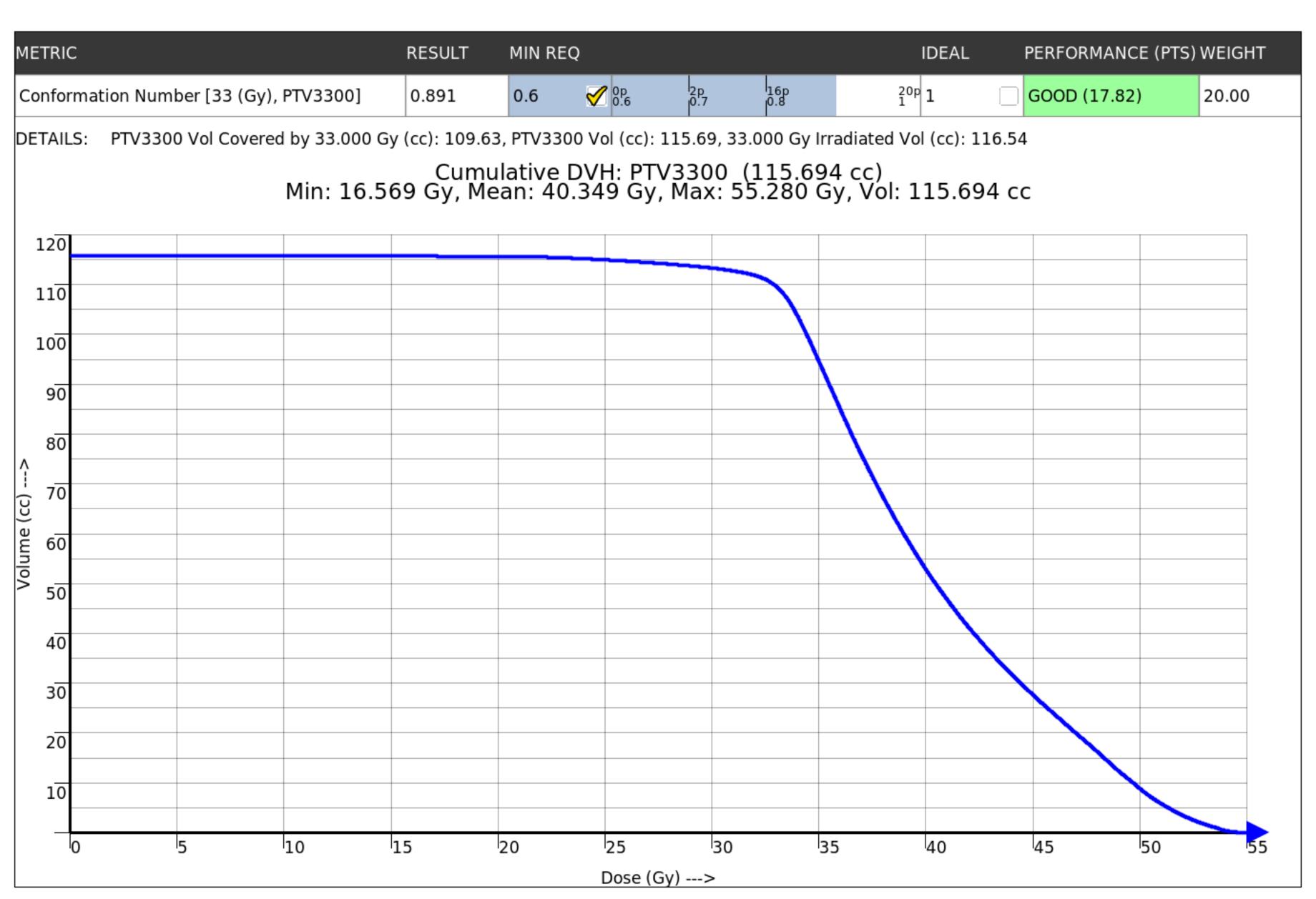




Dose (Gy) --->

TRIC		RESULT	MIN RE	Q			DEAL	PERFORMANCE (PT	S) WEIGHT
ose (Gy) covering 90	(%) of the TVI	38.167	33	<b>₹</b>		10p 35	35 🎸	IDEAL (10.00)	10.00
	Min: 3	C 33.134 Gy, M	umulat lean: 4	ive DVH: T\ 2.245 Gy, N	/I (25.297 d Max: 52.075	cc) Gy, Vol: 2	25.297 cd		
100									
90									
80									
70									
60									
50									
40									
30									
20									
10									



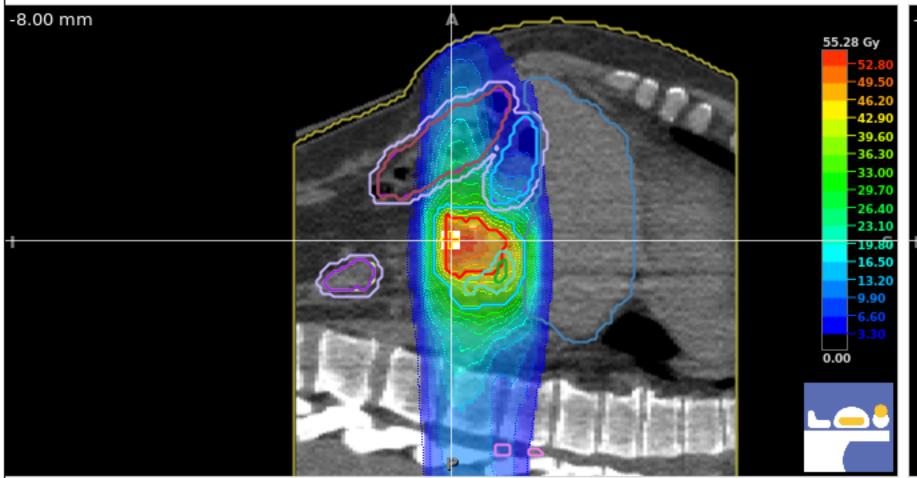


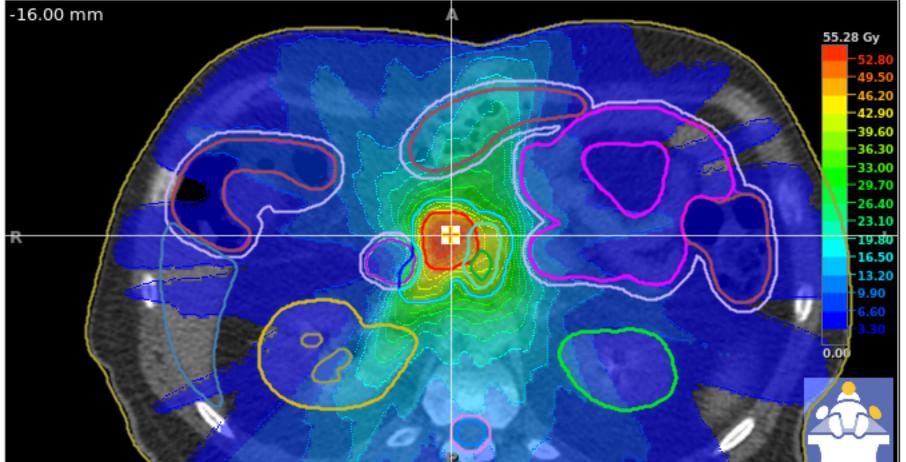


METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS) WEI	GHT
Structure(s) containing the global max dose point	(5 values)	PTV3300 <b></b> ✓	4.2p CTV3300	GTVP	<b>⊘</b> IDEAL (7.00) 7.00	0

DETAILS: Global Max Location (mm): [-8.00, -16.00, 8.00], Structure(s) containing the global max dose: Body, CTV3300, GTVp, PTV3300, PTV3300 EVAL

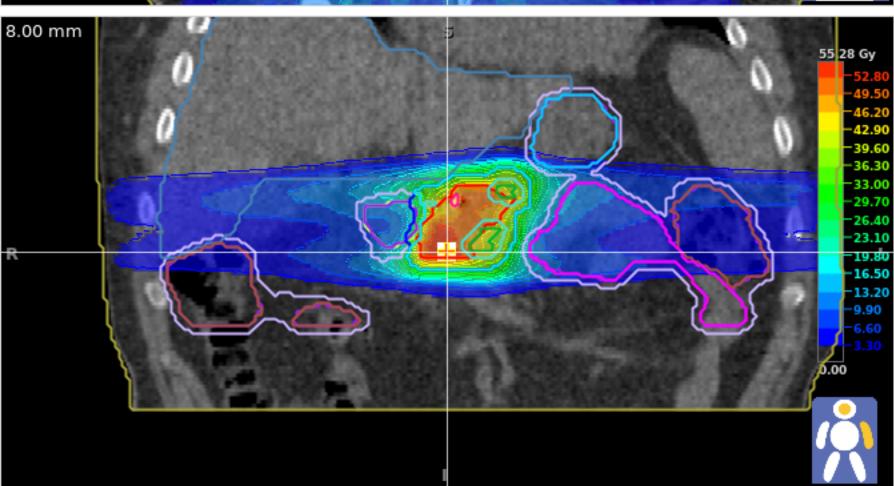
## **Planes Intersecting Global Max Dose**



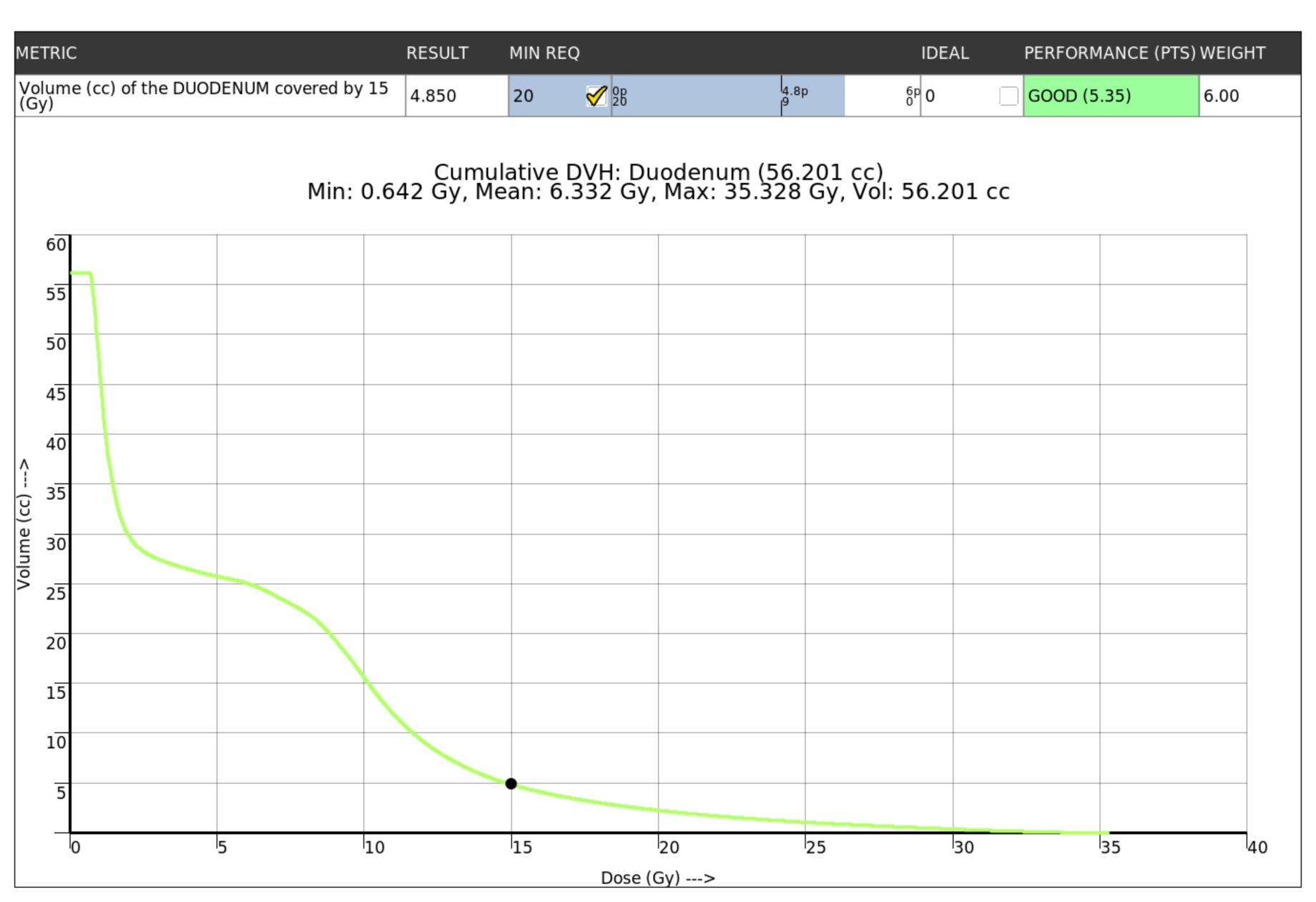


Global Max Dose (Gy): 55.27982 X (mm): -224.0 to 226.0 step 2.0 Y (mm): -98.0 to 134.0 step 2.0 Z (mm): -178.0 to 130.0 step 2.0 DICOM Origin (mm): (-2.90, 23.40, -40.00)

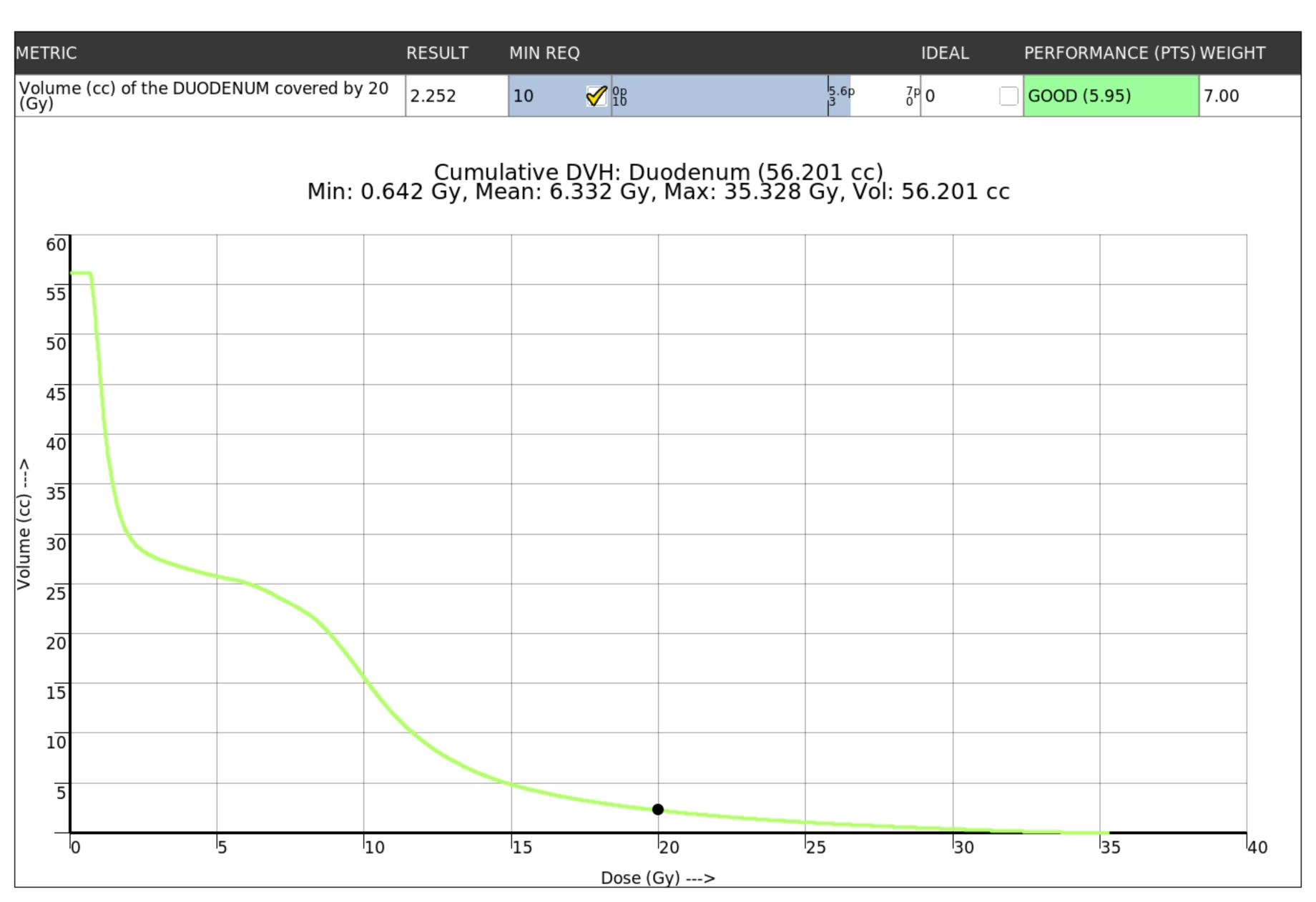
XYZ coordinates have been transformed into an intuitive IEC couch coordinate system where: +X is couch's lateral left; +Y is towards gantry; and +Z is vertical up from couch.



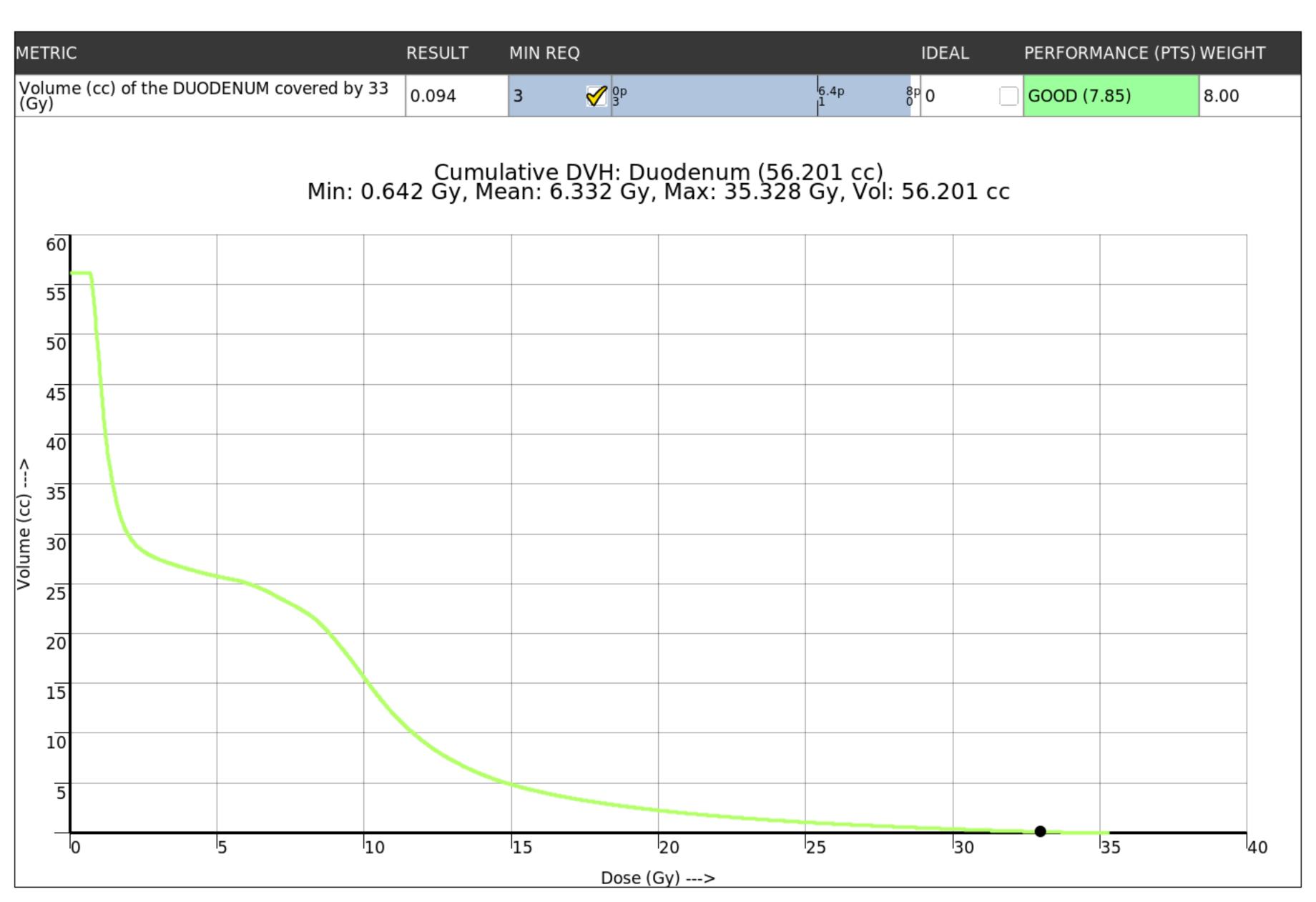




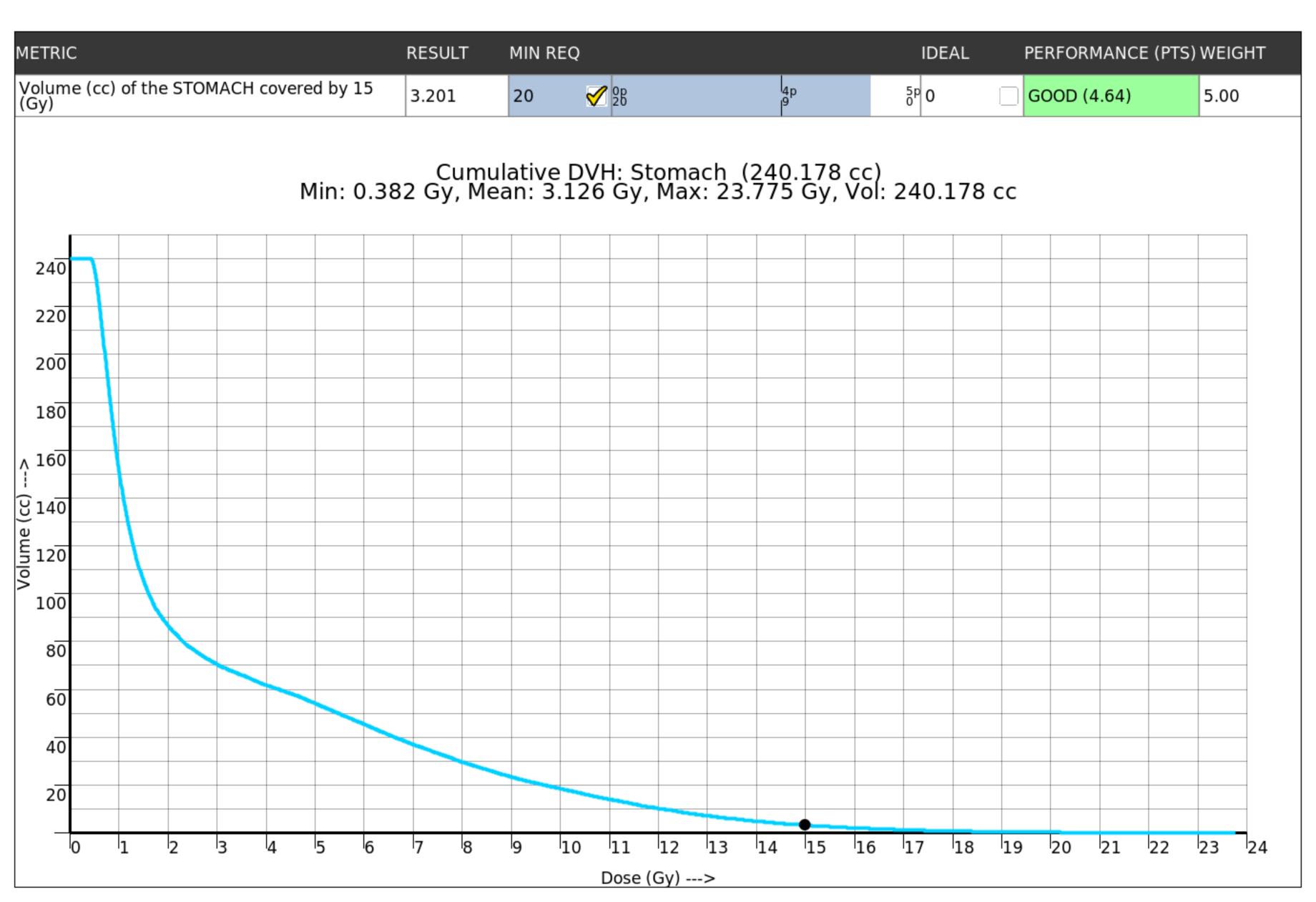




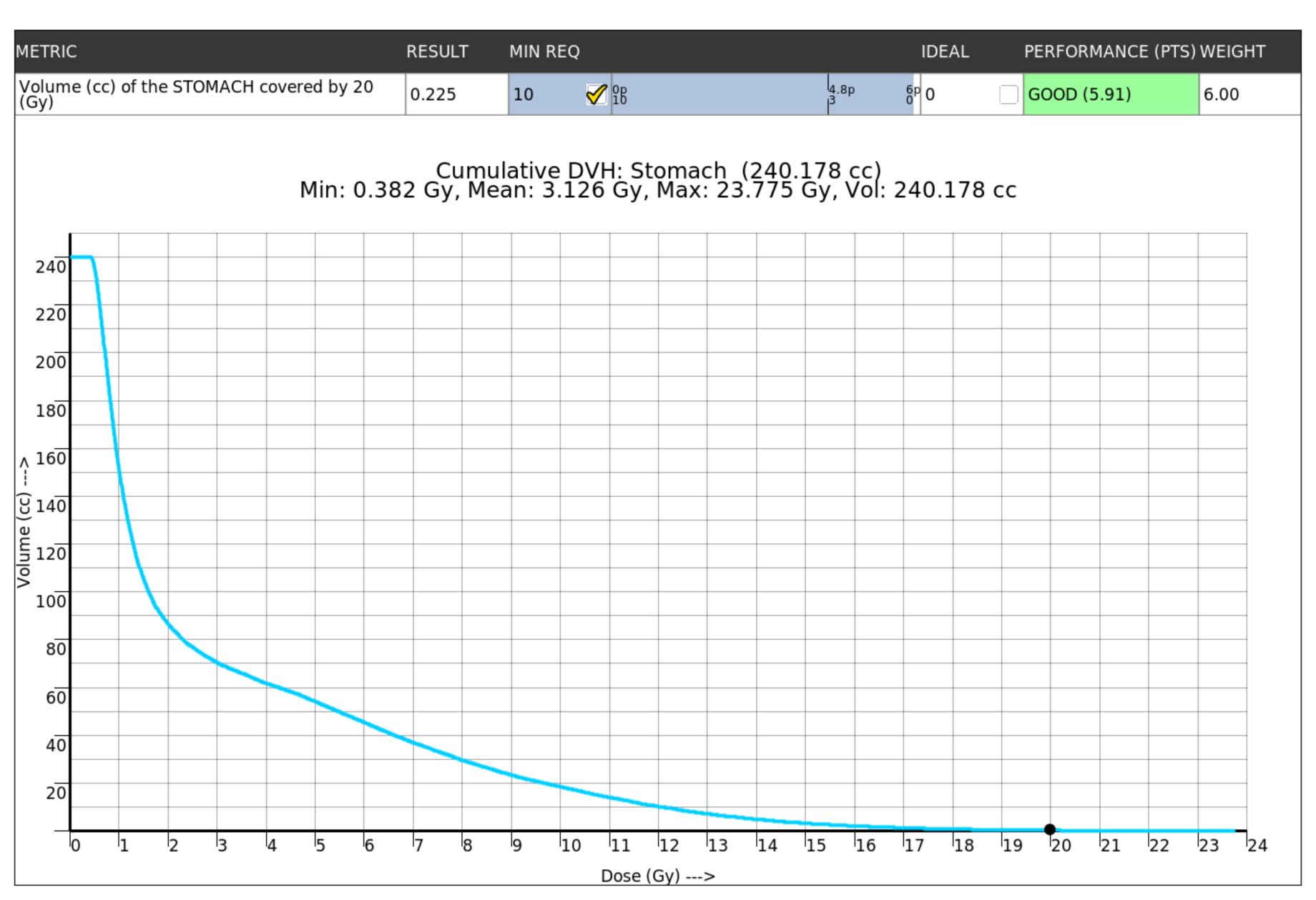








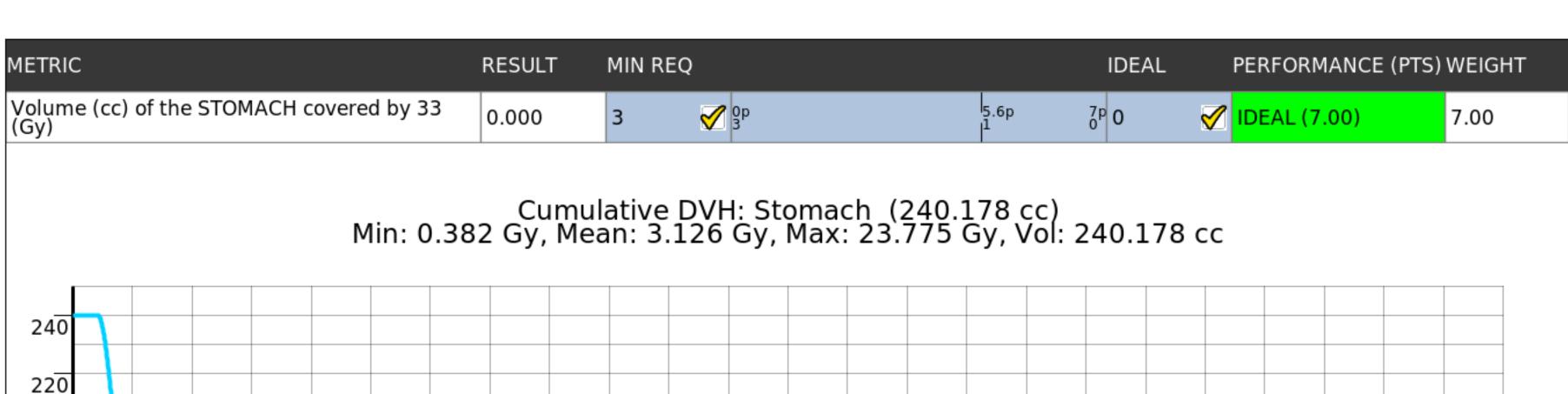






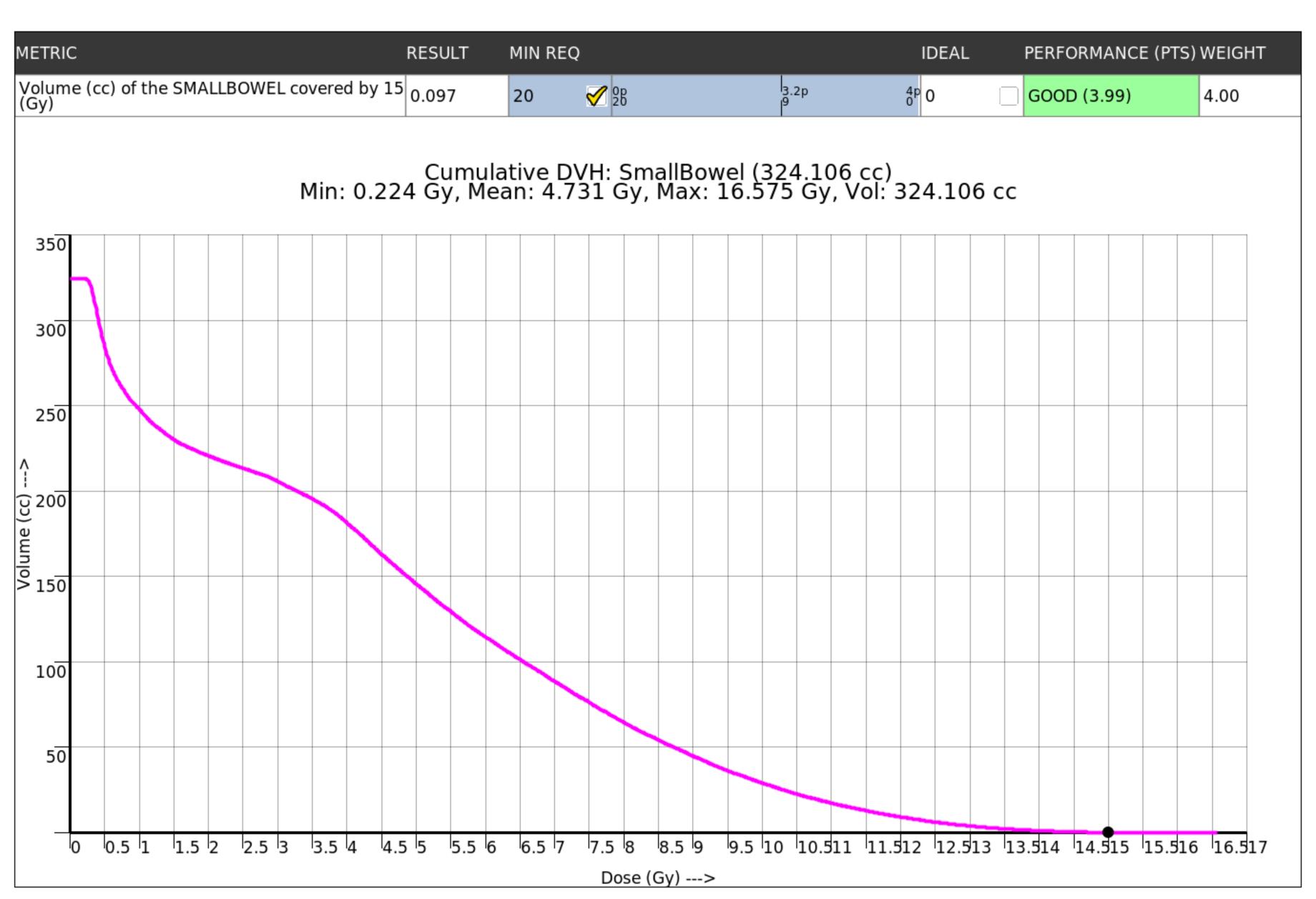
۸ 16<del>0</del>

Nolume (CC) 140

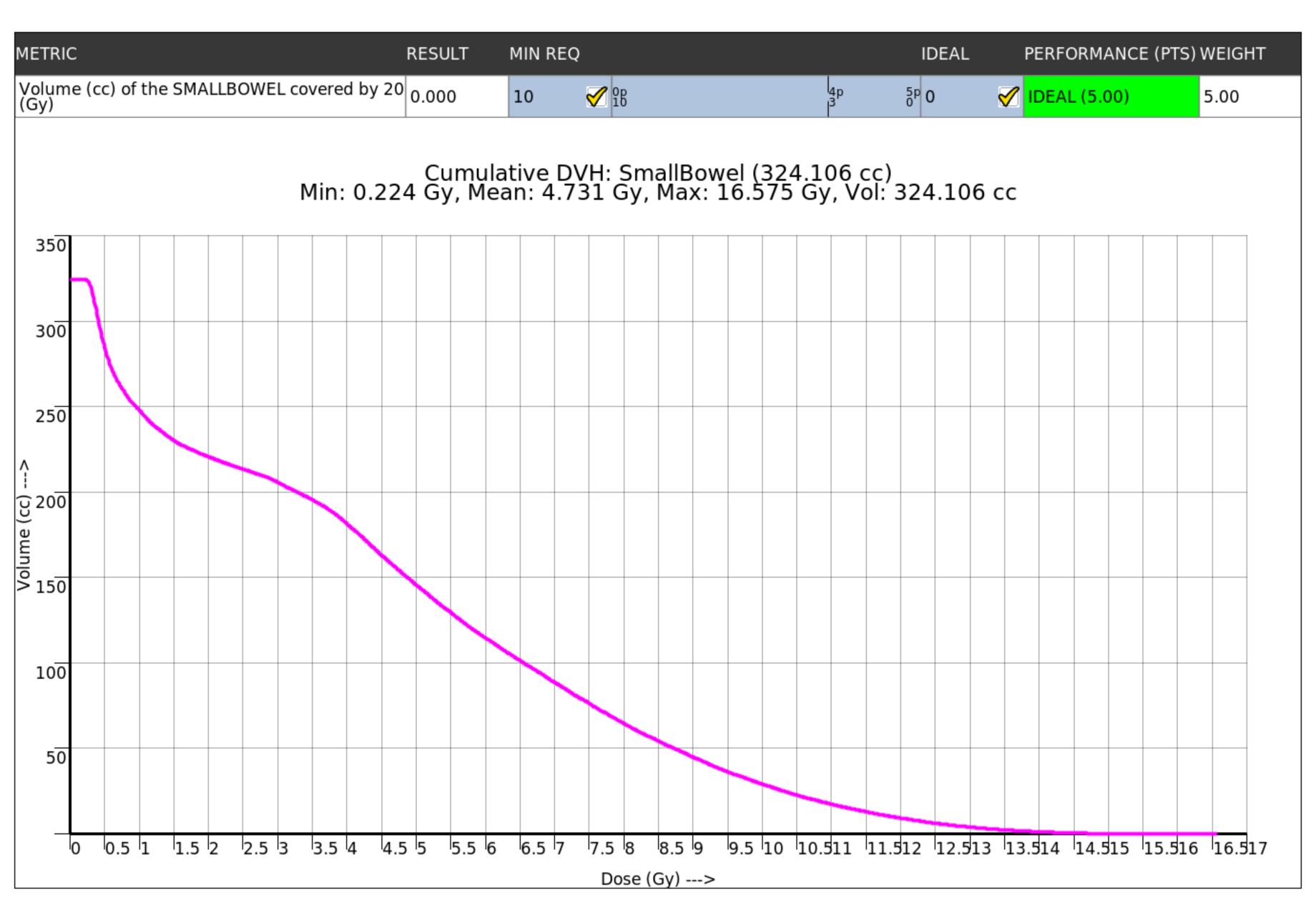


Dose (Gy) --->

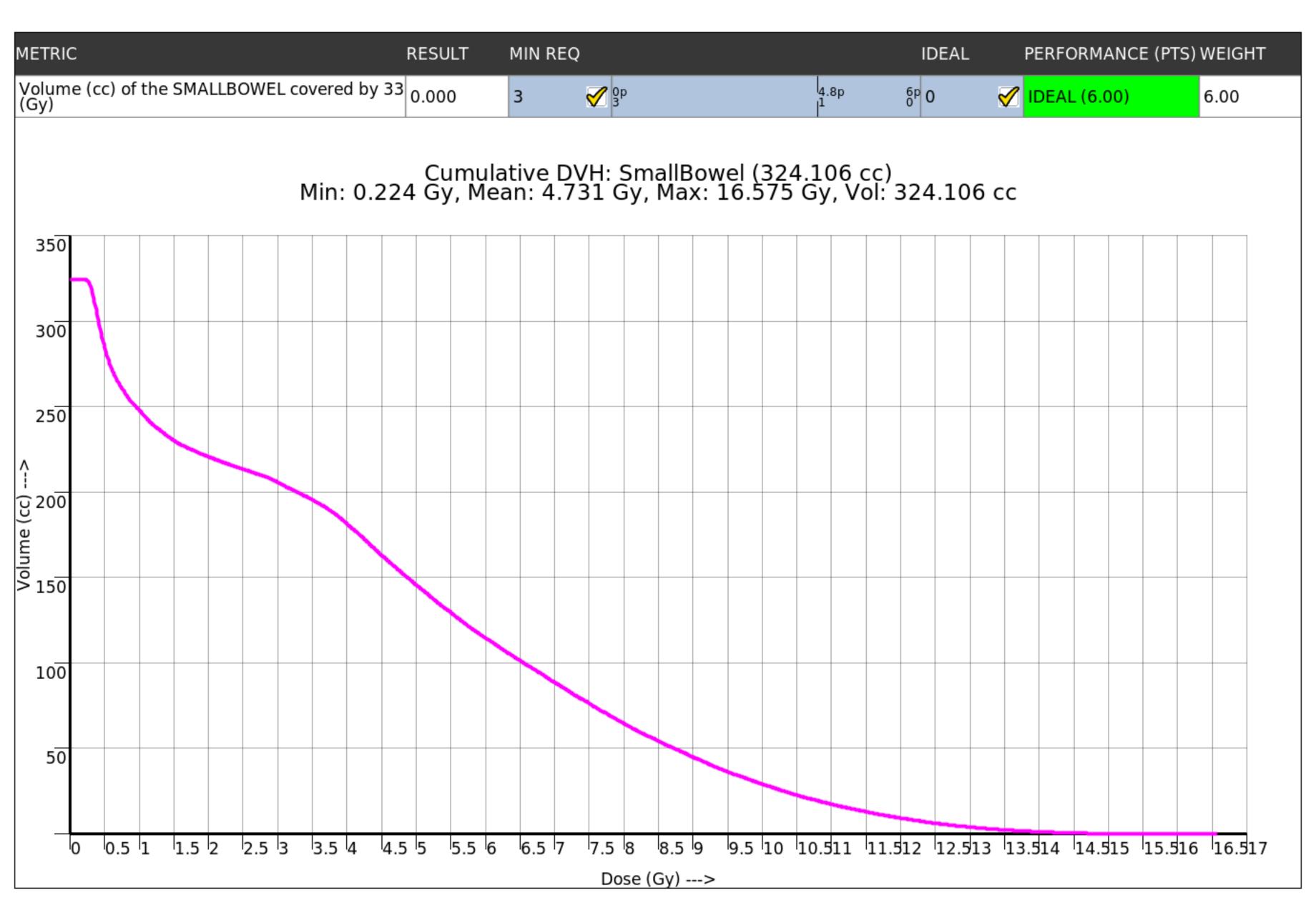








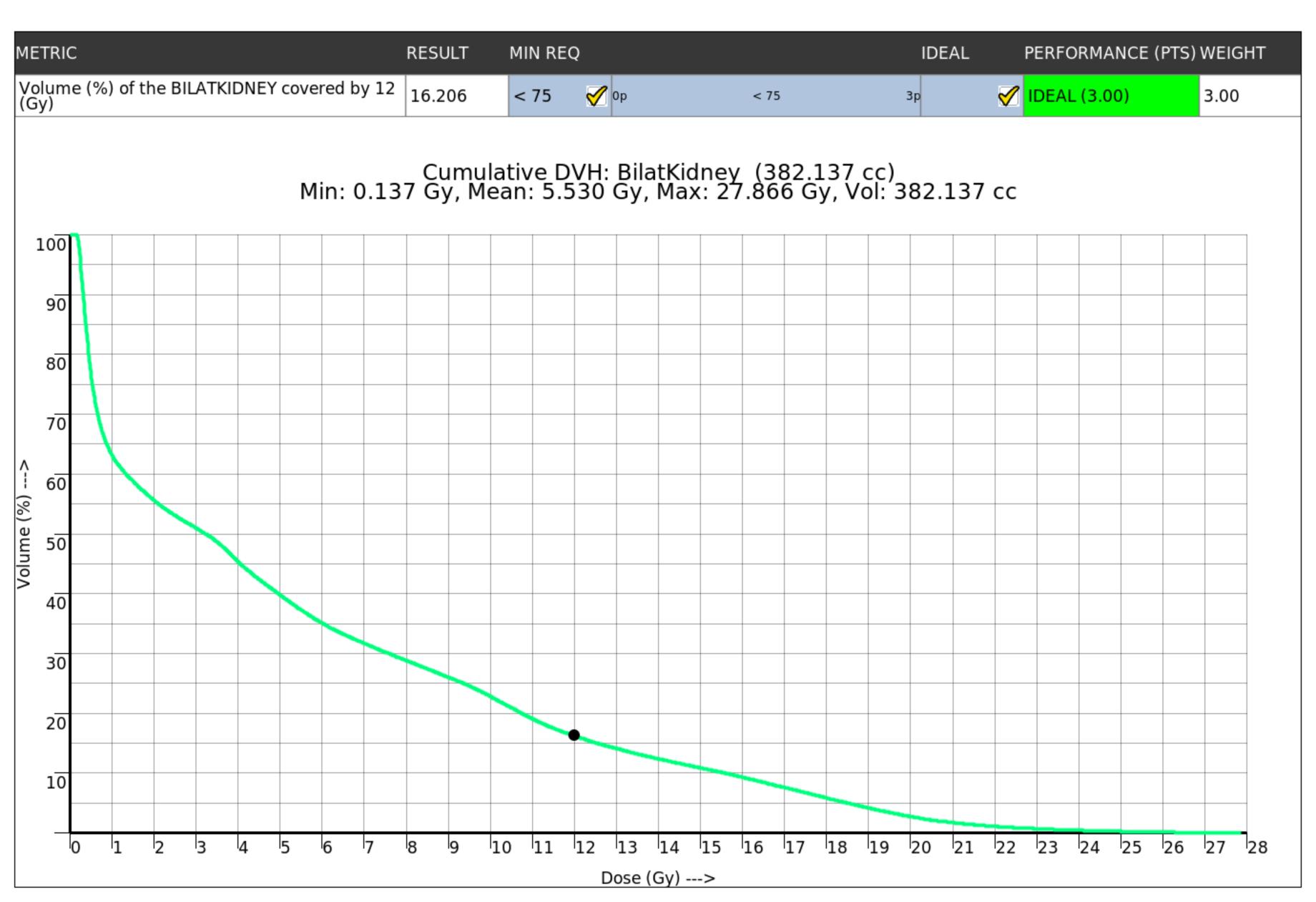




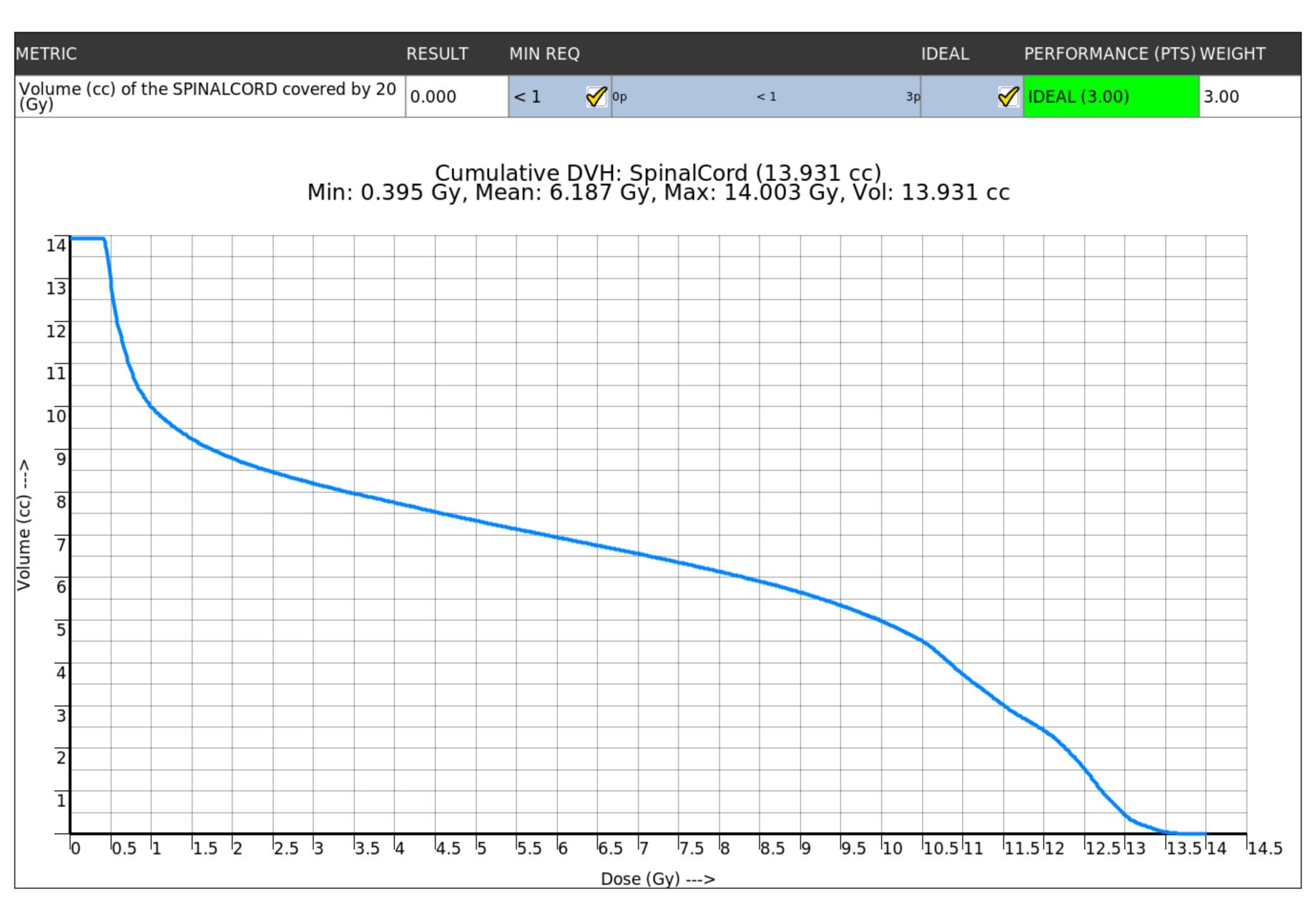














METRIC		RESULT	MIN REC	<u>)</u>	IDEAL F	PERFORMANCE (PTS) WEIGHT
Cumulative meterset o	ver all treatment beams	3741.772				
			_			
BEAM [#] NAME	MACHINE	MOD	ALITY	ENERGY	METERSET	BEAM-ON TIME (Est.)
[1] 1	VersaHD	VMAT		10 MV	1908.575 MU	Invalid Dose Rate
[2] 2	VersaHD	VMAT		10 MV	1833.197 MU	Invalid Dose Rate
					3741.772 (TOTAL)	N/A (TOTAL)
BEAM [#] NAME	ISOCENTER			GEOMETRY	MODIFIERS	
[1] 1	0, 0, 0 (DICOM -2.9, 23.4	4, -40)		Gantry (Dynamic CW and CCW): 1	180 to 180, Collimator: 0, Cojachs∜) MLC	(X)
[2] 2	0, 0, 0 (DICOM -2.9, 23.4	4, -40)		Gantry (Dynamic CW and CCW): 1	185.4 to 180, Collimator: 90,J@wsehMQC	(X)