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Plan Study Review

Study Name:	2022 AAMD Plan Study: SBRT Pancreas + Liver Mets
Participant Name:	Lesley Rosa
Participant Email:	lesley.rosa@varian.com
Participant Role:	dosimetrist
Participant Institution:	Varian
Created:	Tue Jun 28 2022 23:12:59 GMT+0000
TPS Manufacturer:	Varian Medical Systems
TPS Model:	Eclipse
Number of Treatment Beams:	6
Radiation Type(s):	Photon
Delivery Type(s):	VMAT

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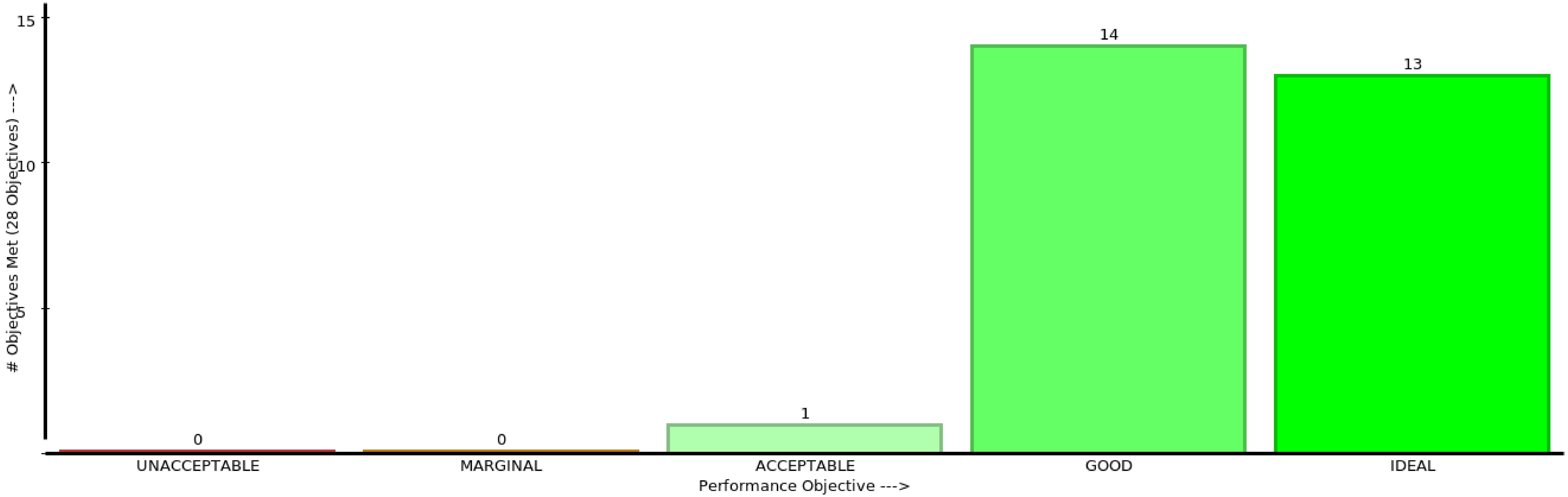
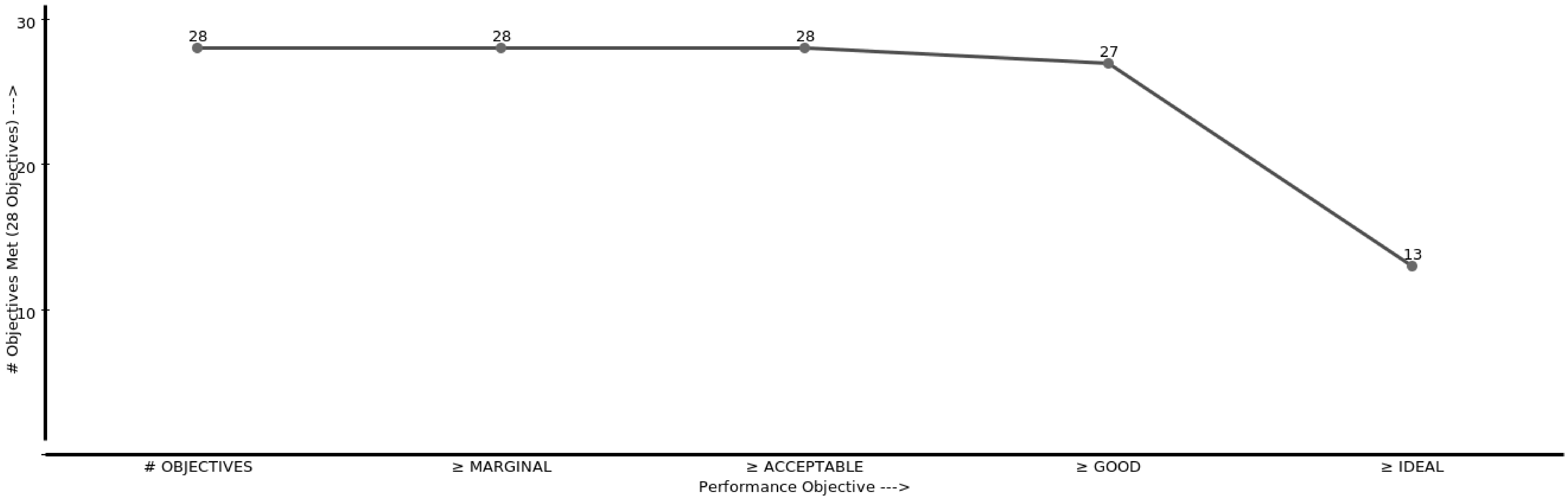
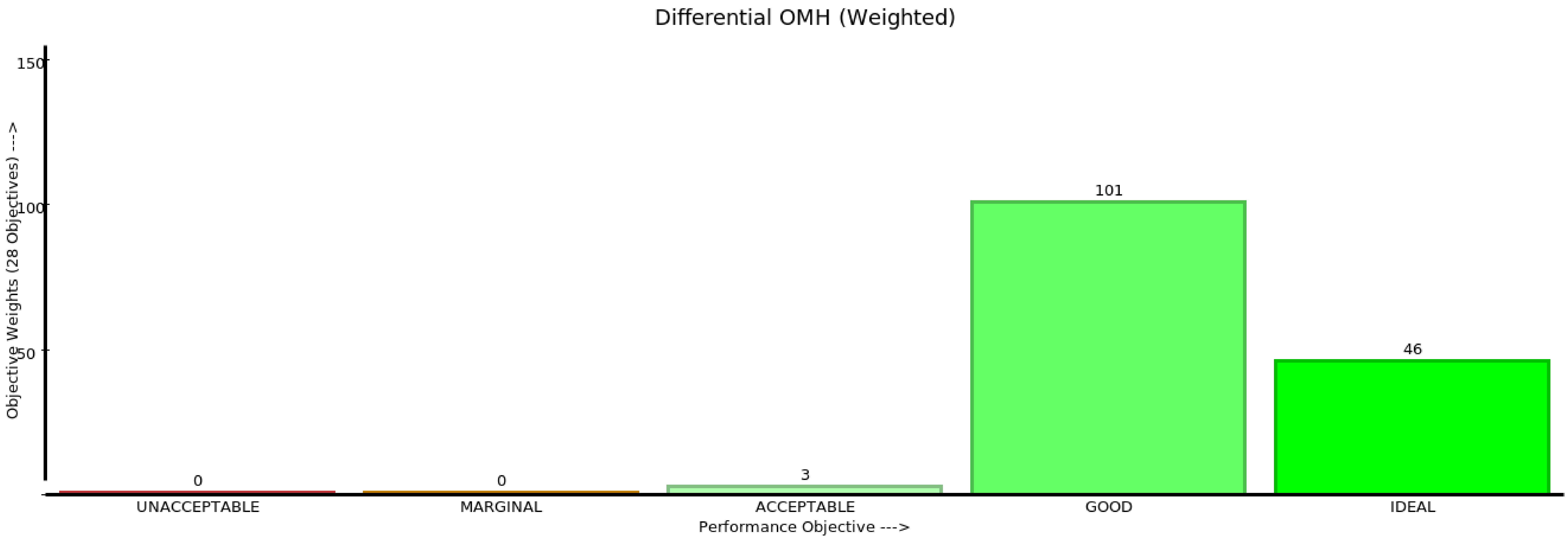
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (%) of the PTV_50 covered by 50 (Gy)	99.604	93 ✓	0p 93, 10p 95, 18p 98, 20p 100	100	GOOD (19.60)	20.00
[CRITICAL] Volume (%) of the PTV_40 covered by 40 (Gy)	99.450	93 ✓	0p 93, 10p 95, 18p 98, 20p 100	100	GOOD (19.45)	20.00
[CRITICAL] Dose (Gy) covering whole GTV- SEG III minus 0.03 (cc)	41.809	36 ✓	0p 36, 2.5p 38, 4.5p 39.6, 5p 40	40 ✓	IDEAL (5.00)	5.00
[CRITICAL] Dose (Gy) covering whole GTV-SEG IVB minus 0.03 (cc)	46.546	36 ✓	0p 36, 2.5p 38, 4.5p 39.6, 5p 40	40 ✓	IDEAL (5.00)	5.00
[CRITICAL] Dose (Gy) covering whole PTV_40 minus 0.03 (cc)	38.672	36 ✓	0p 36, 1.25p 37, 2.5p 38, 5p 39.6	39.6	GOOD (3.55)	5.00
[CRITICAL] Dose (Gy) covering whole PTV_50 minus 0.03 (cc)	49.084	45 ✓	0p 45, 1p 46, 2.5p 47.5, 5p 49.5	49.5	GOOD (4.48)	5.00
Conformation Number [40 (Gy), CONFORMATION]	0.716	0.4 ✓	0p 0.4, 5p 0.5, 8p 0.6, 10p 0.8	0.8	GOOD (9.16)	10.00
Conformation Number [20 (Gy), CONFORMATION]	0.195	0.1 ✓	0p 0.1, 2p 0.13, 8p 0.15, 10p 0.2	0.2	GOOD (9.80)	10.00
Modified Gradient Index [Vol(20 Gy)/ Vol-of-CONFORMATION(40 Gy)]	5.137	8 ✓	0p 8, 2.5p 7.5, 4.5p 6.5, 5p 5	5	GOOD (4.95)	5.00
[CRITICAL] Dose (Gy) covering 0.03 (cc) of the DUODENUM	35.615	40 ✓	0p 40, 2.8p 38, 5.6p 36, 7p 34	34	GOOD (5.87)	7.00
[CRITICAL] Volume (cc) of the DUODENUM covered by 20 (Gy)	7.700	35 ✓	0p 35, 1p 30, 3p 20, 5p 10	10 ✓	IDEAL (5.00)	5.00
[CRITICAL] Volume (cc) of the DUODENUM covered by 30 (Gy)	0.507	3 ✓	0p 0.03p 3, 2.51p 2, 5p 1	1 ✓	IDEAL (5.00)	5.00
[CRITICAL] Volume (cc) of the SMALLBOWEL covered by 20 (Gy)	0.407	15 ✓	0p 15, 3.59p 2, 4p 0.5	0.5 ✓	IDEAL (4.00)	4.00
[CRITICAL] Volume (cc) of the SMALLBOWEL covered by 30 (Gy)	0.002	1 ✓	0p 1, 2p 0.5, 3.6p 0.1, 4p 0	0	GOOD (3.99)	4.00
[CRITICAL] Volume (cc) of the SMALLBOWEL covered by 35 (Gy)	0.000	0.1 ✓	0p 0.1, 1.33p 0.05, 3.6p 0.01, 4p 0	0 ✓	IDEAL (4.00)	4.00
[CRITICAL] Volume (cc) of the STOMACH covered by 20 (Gy)	3.867	20 ✓	0p 0.08p 20, 2.25p 10, 3p 5	5 ✓	IDEAL (3.00)	3.00
[CRITICAL] Volume (cc) of the STOMACH covered by 30 (Gy)	0.430	2 ✓	0p 0.88p 2, 2.25p 1, 3p 0	0	GOOD (2.68)	3.00
[CRITICAL] Volume (cc) of the STOMACH covered by 35 (Gy)	0.060	1 ✓	0p 0.6p 1, 2p 0.5, 3p 0	0	GOOD (2.88)	3.00
[CRITICAL] Volume (cc) of the STOMACH covered by 40 (Gy)	0.000	0.5 ✓	0p 0.6p 0.5, 2p 0.25, 3p 0	0 ✓	IDEAL (3.00)	3.00
[CRITICAL] Dose (Gy) covering 0.03 (cc) of the SPINALCORD	6.254	28 ✓	0p 0.6p 28, 2p 14, 3p 7	7 ✓	IDEAL (3.00)	3.00
[CRITICAL] Dose (Gy) covering 0.35 (cc) of the SPINALCORD	5.841	22 ✓	0p 0.6p 22, 2p 15, 3p 10	10 ✓	IDEAL (3.00)	3.00
[CRITICAL] Dose (Gy) covering whole KIDNEYS minus 200 (cc)	2.569	17.5 ✓	0p 0.88p 17.5, 2.25p 5, 3p 0	0	GOOD (2.61)	3.00
[CRITICAL] Volume (%) of the KIDNEYS covered by 23 (Gy)	0.000	65 ✓	0p 0.6p 65, 2.7p 5, 3p 0	0 ✓	IDEAL (3.00)	3.00
[CRITICAL] Dose (Gy) covering whole LIVER minus 700 (cc)	5.400	17 ✓	0p 17, 2.4p 5, 3p 2	2	ACCEPTABLE (2.32)	3.00
[CRITICAL] Mean dose (Gy) to the LIVER	6.063	18 ✓	0p 18, 1.85p 10, 3p 5	5	GOOD (2.75)	3.00
[CRITICAL] Dose (Gy) covering whole LUNGS minus 1500 (cc)	0.206	12.5 ✓	0p 12.5, 2.28p 3, 3p 0	0	GOOD (2.95)	3.00
[CRITICAL] Volume (%) of the LUNGS covered by 13.5 (Gy)	0.000	37 ✓	0p 37, 2.59p 5, 3p 0	0 ✓	IDEAL (3.00)	3.00
[CRITICAL] Max dose voxel dimension (mm)	1.250	≤ 3 ✓	-5p, ≤ 3, 0p	✓	IDEAL (0.00)	0.00
Cumulative meterset over all treatment beams	8187.943	---	---	---	---	---
Number of treatment beams	6.000	---	---	---	---	---
Number of unique couch angles	1.000	---	---	---	---	---
TOTALS		28 (of 28)		13 (of 28)	143.06	150.00

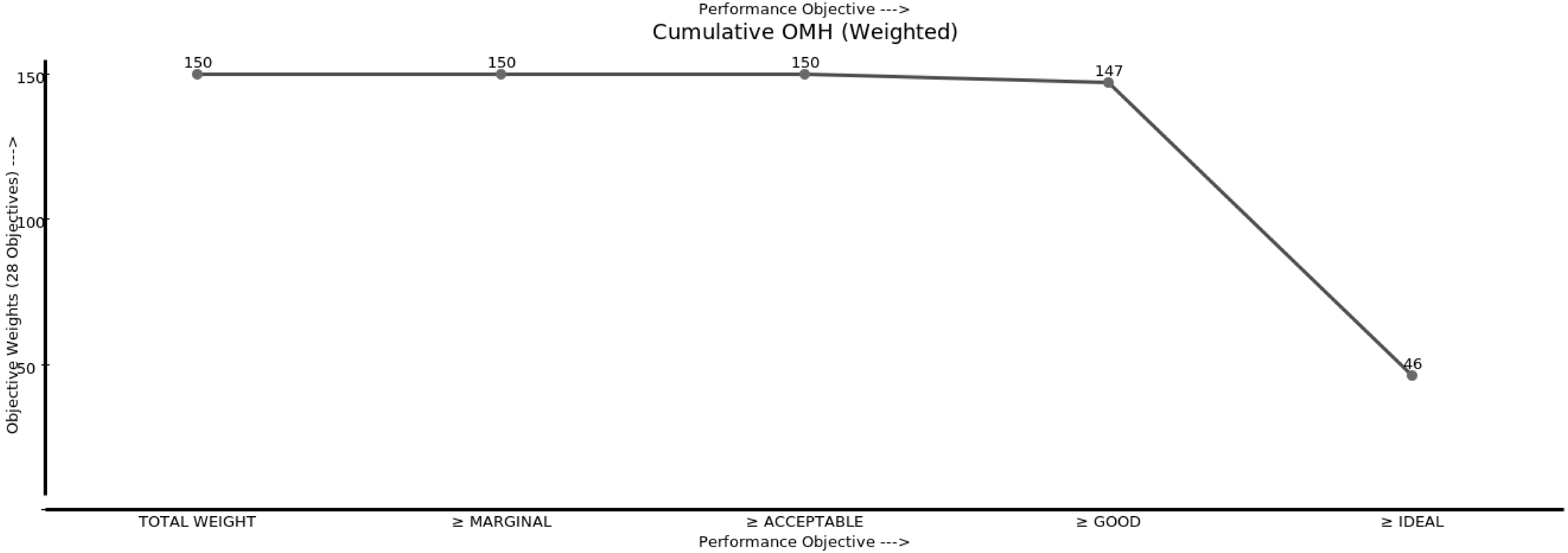
Differential OMH



Cumulative OMH




Differential OMH (Weighted)
Objective Weights (28 Objectives) --->
150
100
50
0
0
3
101
46
UNACCEPTABLE
MARGINAL
ACCEPTABLE
GOOD
IDEAL
Performance Objective --->


Cumulative OMH (Weighted)
Objective Weights (28 Objectives) --->
150
100
50
150
150
150
147
46
TOTAL WEIGHT
≥ MARGINAL
≥ ACCEPTABLE
≥ GOOD
≥ IDEAL
Performance Objective --->

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

RT PLAN: Yes
Patient Name: PANCREAS AND LIVER
Patient ID: AAMD2022
Plan Name: ---
Plan Label: **SUBMITTED**
Study ID: S
Patient Position: HeadFirstSupine
Manufacturer: Varian Medical Systems
Model Name: ARIA RadOnc
Total Beams: 7 [6 treatment, 1 setup, 0 port, 0 other]
Total Control Points: 1082
Number of Fraction Groups: 1 [5 Fx]

RT DOSE: Yes
Patient Name: PANCREAS AND LIVER
Patient ID: AAMD2022
Study ID: S
Patient Position (Derived): HeadFirstSupine
Patient Position (Requested): HeadFirstSupine
Manufacturer: Varian Medical Systems
Model Name: ARIA RadOnc
Global Max Dose (Gy): 70.47028
X (mm): -325.312 to 244.688 step 1.25
Y (mm): 94.0 to 464.0 step 1.0
Z (mm): 125.773 to 410.773 step 1.25
DICOM Origin (mm): (0.00, 0.00, 0.00)

RT STRUCTURE SET: Yes
Patient Name: PANCREAS AND LIVER
Patient ID: AAMD2022
Structure Set Label: RS: Unapproved
Study ID: ---
Patient Position (Requested): HeadFirstSupine
Slice Spacing: Uniform spacing of 2.0 mm
Number of Structures: 33 [33 contour-based, 0 points]

IMAGE SET: Yes
Patient Name: PANCREAS AND LIVER
Patient ID: AAMD2022
Study ID: ---
Patient Position (Derived): HeadFirstSupine
Patient Position (Requested): HeadFirstSupine
Modality: ComputedTomography
Axial Slices: 185 [2 mm spacing]

----------- DICOM Alerts -----------

The following messages report any inconsistencies found in your DICOM data associations. Please analyze each message to determine if they are important (e.g

Inconsistency in Study ID:
S [RT Plan]
<Null> [RT Structure Set]
S [RT Dose]
<Null> [CT Imageset]

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

----------- Data Alerts -----------

[DVH] WARNING: The CouchInterior volume goes outside the dose grid extents. Structure voxels outside the dose grid have assigned zero dose.

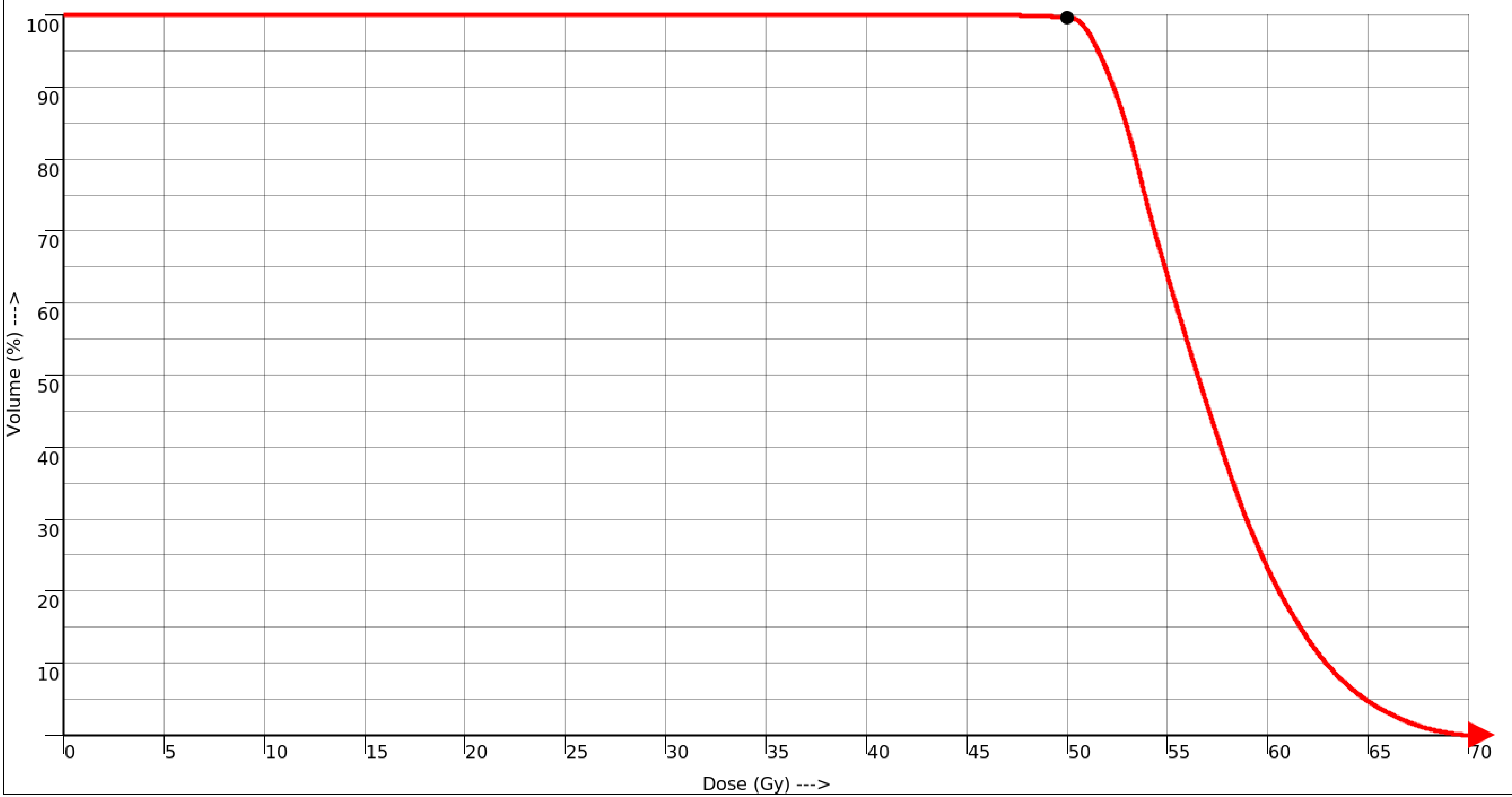
[DVH] WARNING: The CouchSurface volume goes outside the dose grid extents. Structure voxels outside the dose grid have assigned zero dose.

BEAM [#] NAME	MACHINE	MODALITY	ENERGY	METERSET	BEAM-ON TIME (Est.)
[1] Field 1	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1288.704 MU	121
[2] Field 2	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1363.699 MU	128
[3] Field 3	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1597.561 MU	150
[4] Field 4	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1370.475 MU	129
[6] Field 5	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1399.069 MU	132
[7] Field 6	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1168.436 MU	110
				8187.943 (TOTAL)	12.83 min (TOTAL)

BEAM [#] NAME	ISOCENTER	GEOMETRY	MODIFIERS
[1] Field 1	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 280, Couch: 0	X Jaws Y Jaws, MLC (X)
[2] Field 2	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 315, Couch: 0	X Jaws Y Jaws, MLC (X)
[3] Field 3	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 345, Couch: 0	X Jaws Y Jaws, MLC (X)
[4] Field 4	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 15, Couch: 0	X Jaws Y Jaws, MLC (X)
[6] Field 5	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 45, Couch: 0	X Jaws Y Jaws, MLC (X)
[7] Field 6	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 80, Couch: 0	X Jaws Y Jaws, MLC (X)

METRIC	RESULT	MIN REQ					IDEAL		PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (%) of the PTV_50 covered by 50 (Gy)	99.604	93 ✓	0p 93	10p 95	18p 98	20p 100	100	☐	GOOD (19.60)	20.00

Cumulative DVH: PTV_50 (14.094 cc)
Min: 45.190 Gy, Mean: 57.092 Gy, Max: 70.470 Gy, Vol: 14.094 cc



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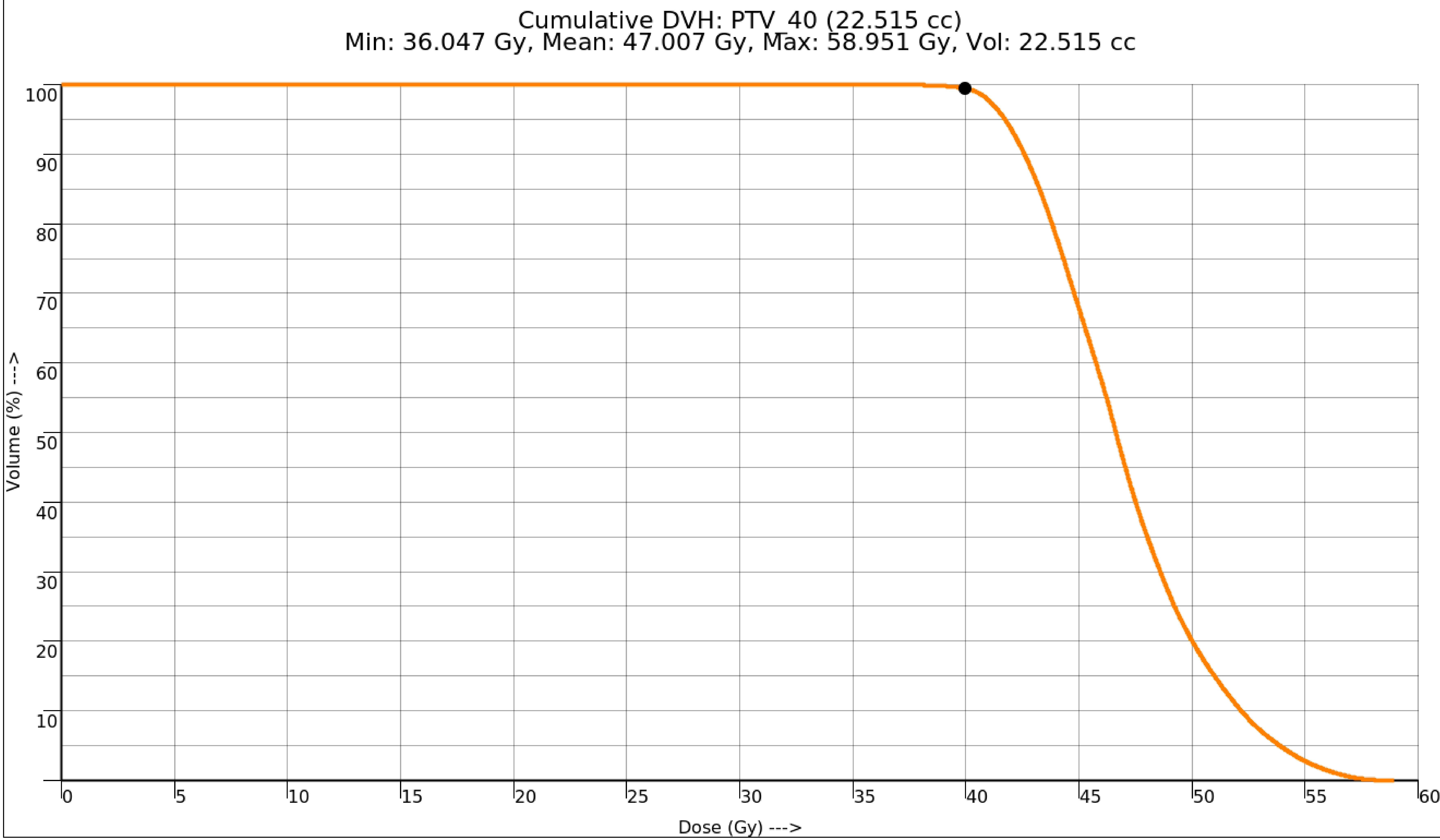
METRIC	RESULT	MIN REQ	IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (%) of the PTV_40 covered by 40 (Gy)	99.450	93 (0p 93, 10p 95, 18p 98, 20p 100)	100	GOOD (19.45)	20.00



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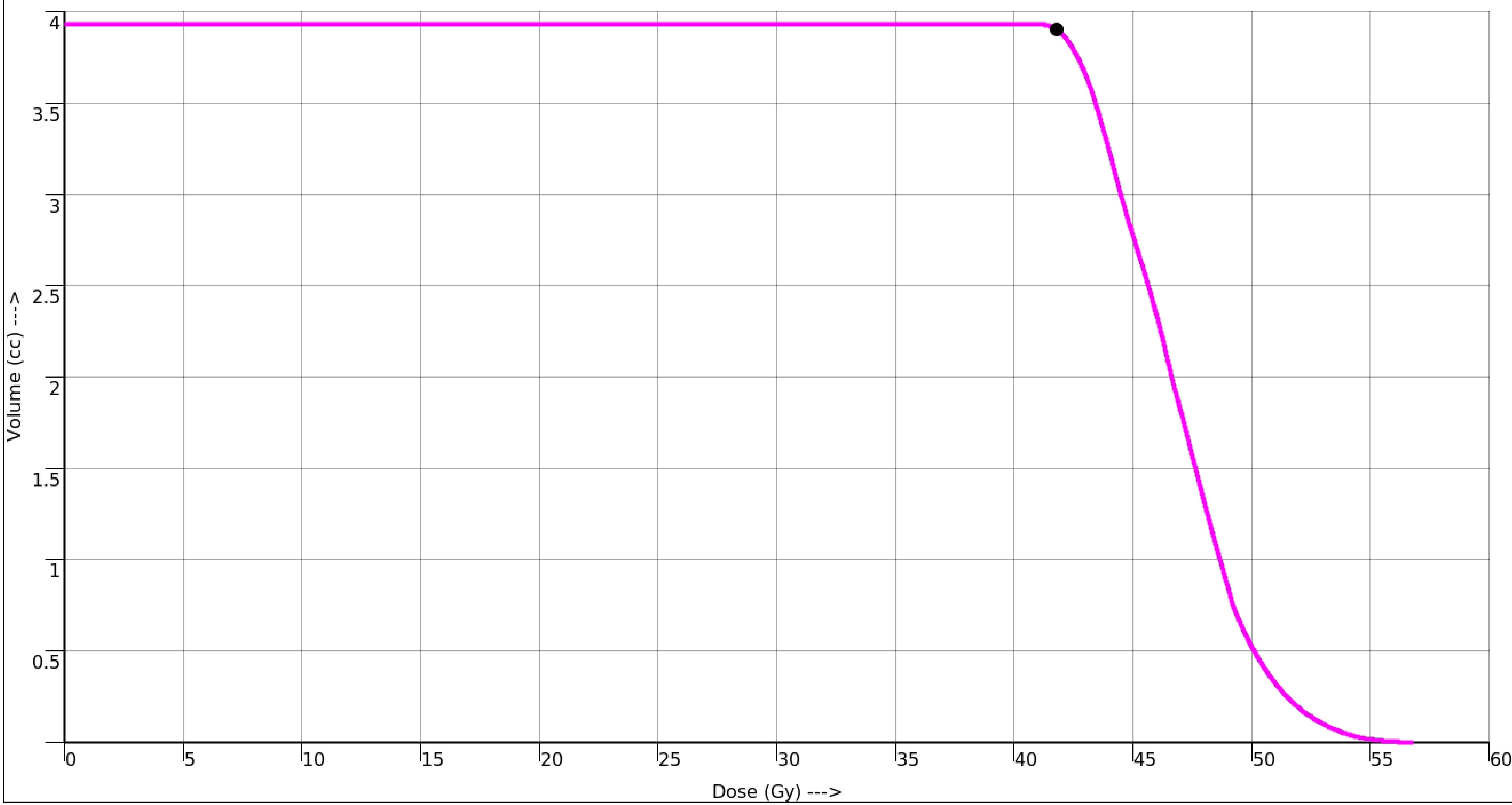
METRIC	RESULT	MIN REQ					IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering whole GTV- SEG III minus 0.03 (cc)	41.809	36 ✓	0p 36	2.5p 38	4.5p 39	5p 40	40 ✓	IDEAL (5.00)	5.00

Cumulative DVH: GTV- Seg III (3.931 cc)
Min: 41.050 Gy, Mean: 46.859 Gy, Max: 56.832 Gy, Vol: 3.931 cc



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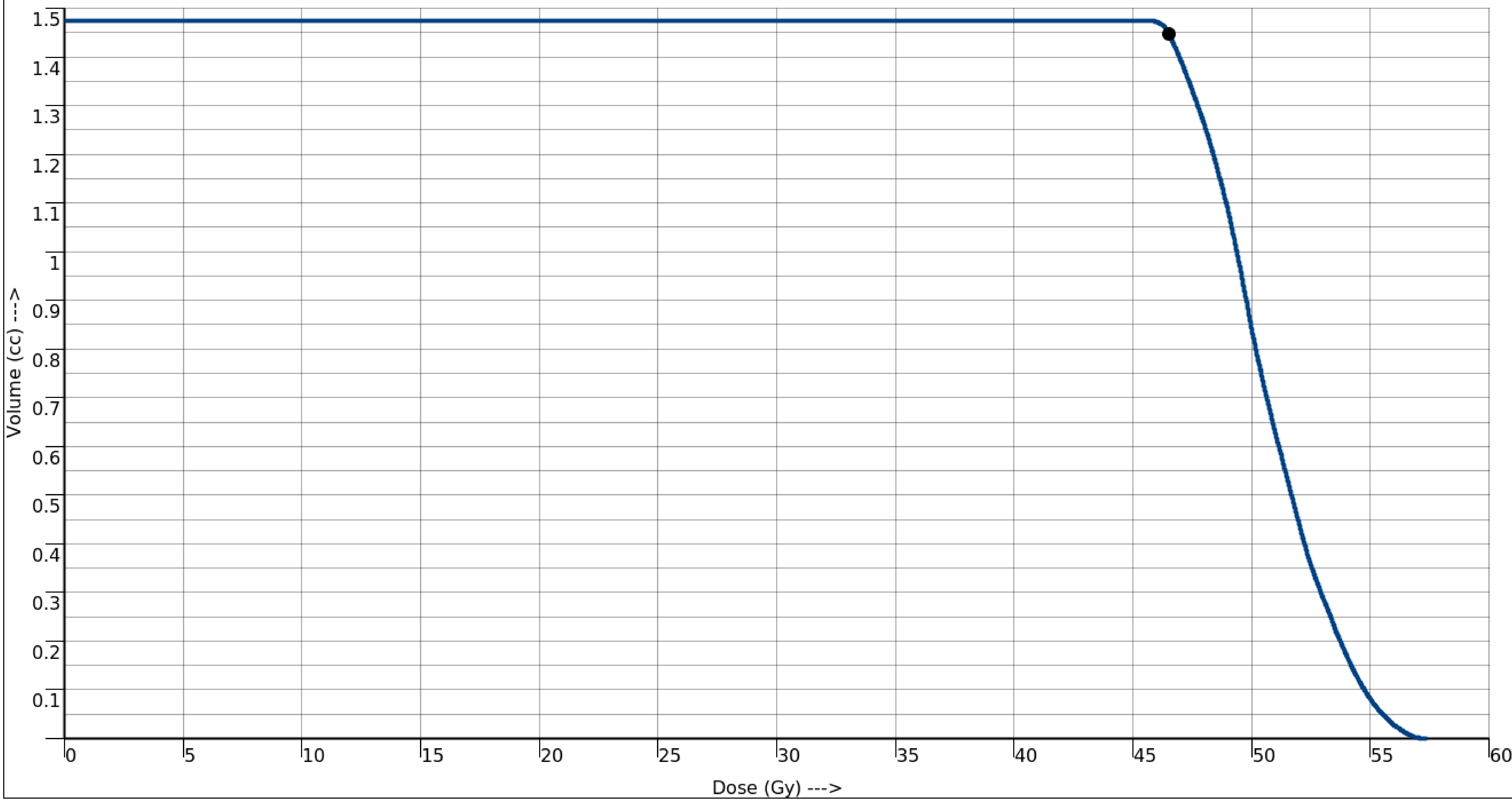
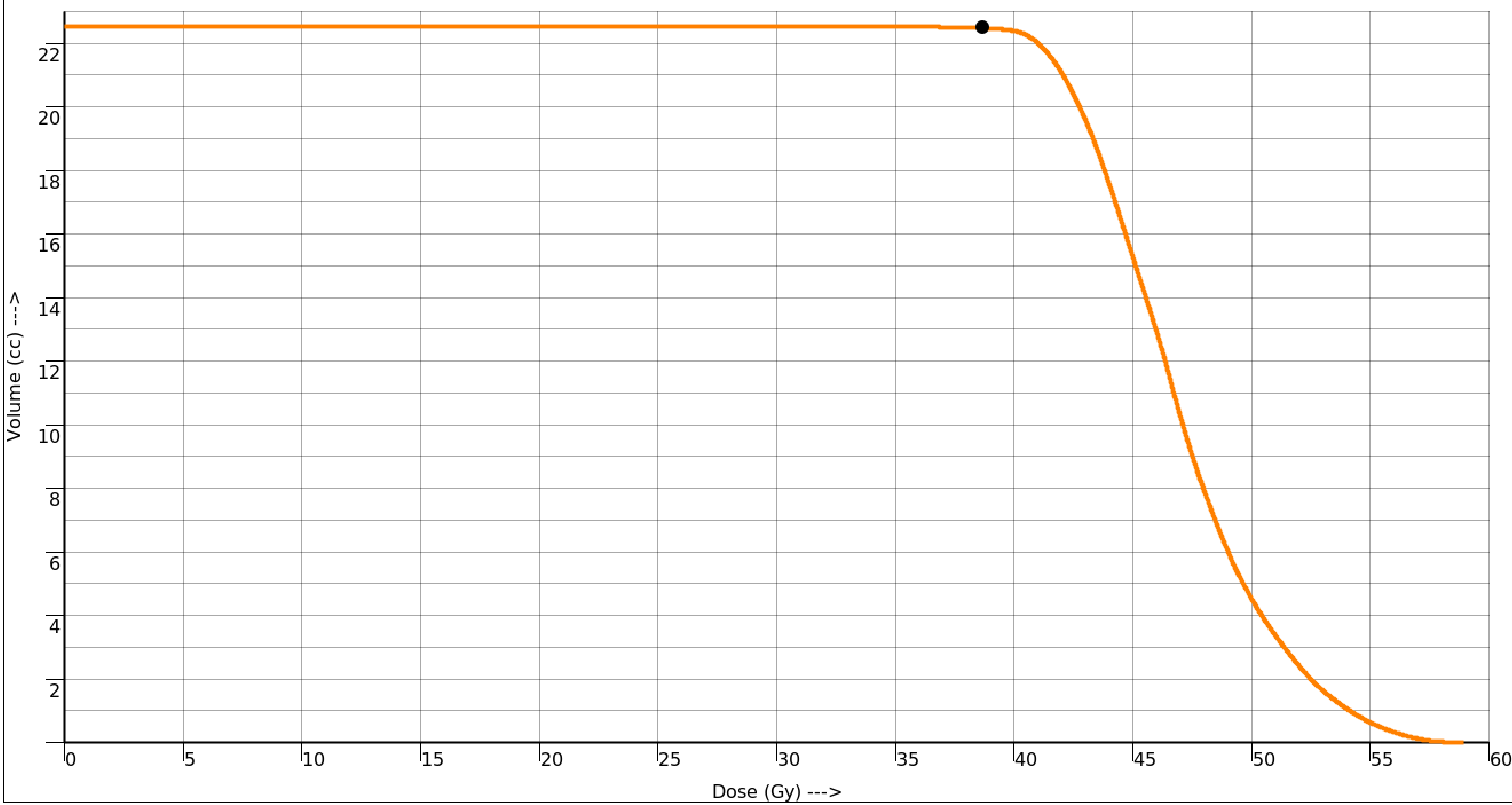
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering whole GTV-SEG IVB minus 0.03 (cc)	46.546	36 ✓	0p 36; 2.5p 38; 4.5p 39.[illegible]; 5p 40	40 ✓	IDEAL (5.00)	5.00

Cumulative DVH: GTV-Seg IVB (1.475 cc)
Min: 45.616 Gy, Mean: 50.714 Gy, Max: 57.391 Gy, Vol: 1.475 cc



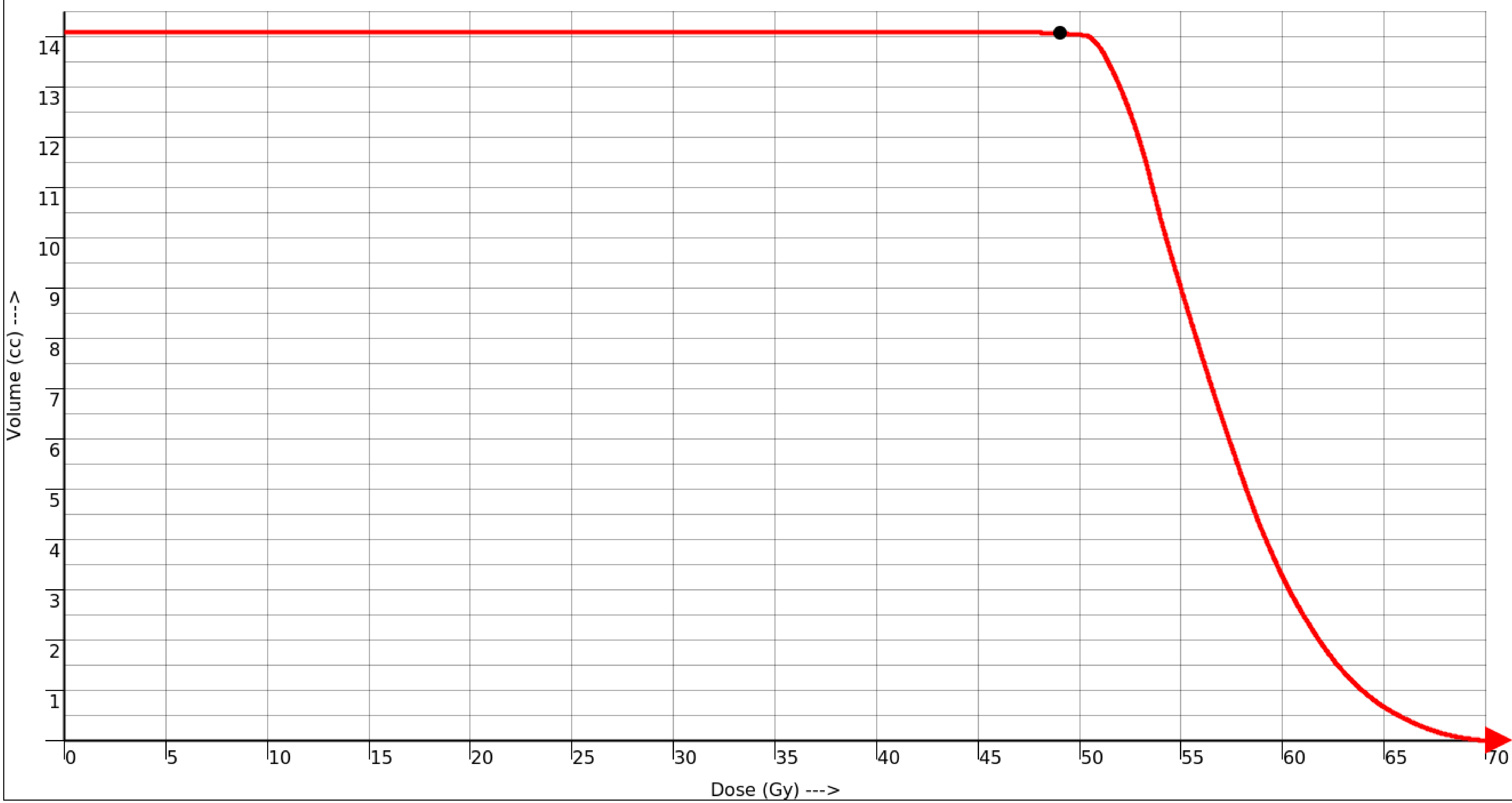
METRIC	RESULT	MIN REQ					IDEAL		PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering whole PTV_40 minus 0.03 (cc)	38.672	36	0p 36	1.25p 37	2.5p 38	5p 39.6	39.6		GOOD (3.55)	5.00

Cumulative DVH: PTV_40 (22.515 cc)
Min: 36.047 Gy, Mean: 47.007 Gy, Max: 58.951 Gy, Vol: 22.515 cc



METRIC	RESULT	MIN REQ					IDEAL		PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering whole PTV_50 minus 0.03 (cc)	49.084	45	0p 45	1p 46	2.5p 47.5	5p 49.5	49.5		GOOD (4.48)	5.00

Cumulative DVH: PTV_50 (14.094 cc)
Min: 45.190 Gy, Mean: 57.092 Gy, Max: 70.470 Gy, Vol: 14.094 cc



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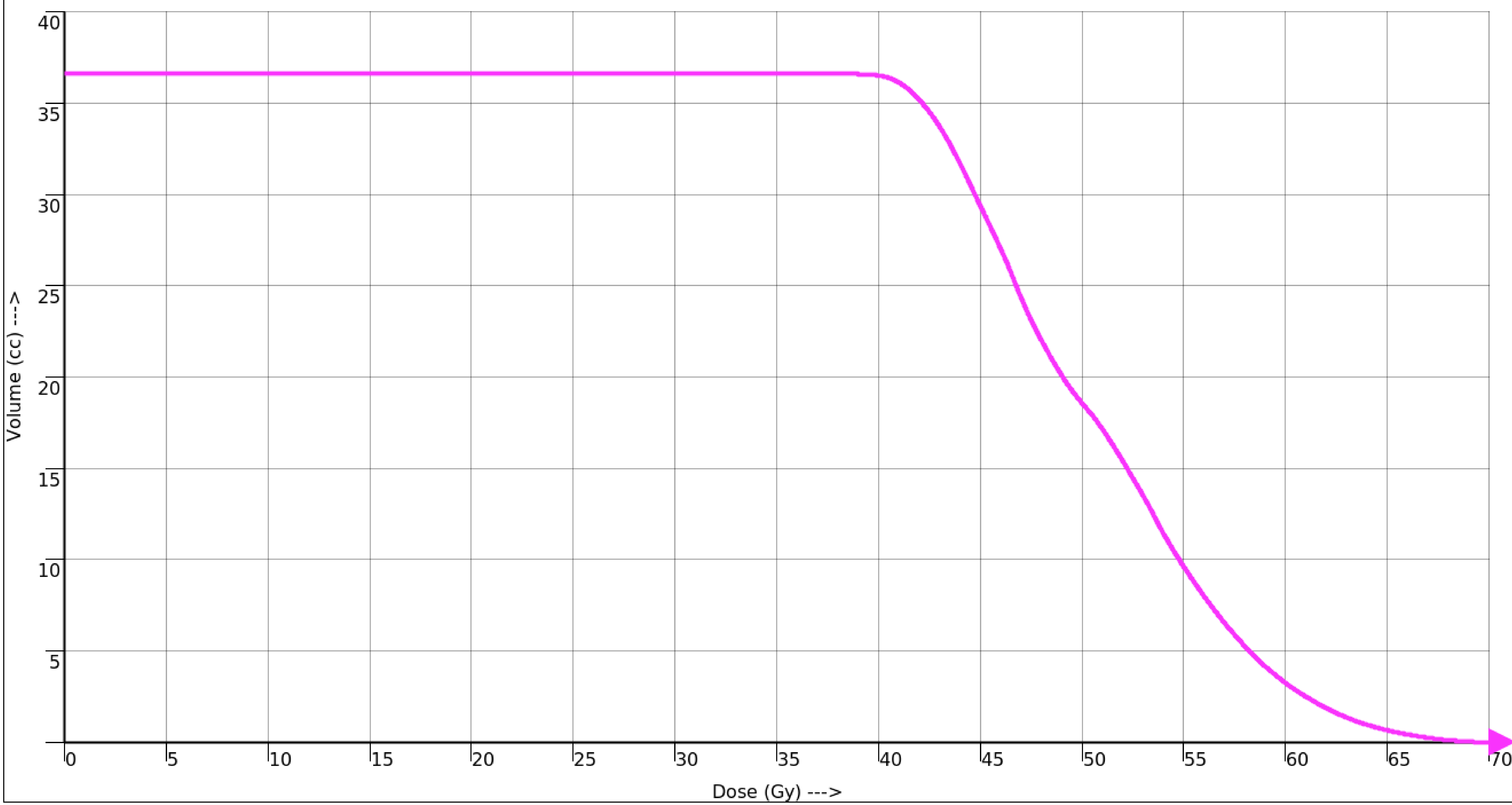
METRIC	RESULT	MIN REQ	IDEAL	PERFORMANCE (PTS)	WEIGHT
Conformation Number [40 (Gy), CONFORMATION]	0.716	0.4 ✓ 0p 0.4 5p 0.5 8p 0.6 10p 0.8	0.8	GOOD (9.16)	10.00

DETAILS: Conformation Vol Covered by 40.000 Gy (cc): 36.51, Conformation Vol (cc): 36.63, 40.000 Gy Irradiated Vol (cc): 50.82

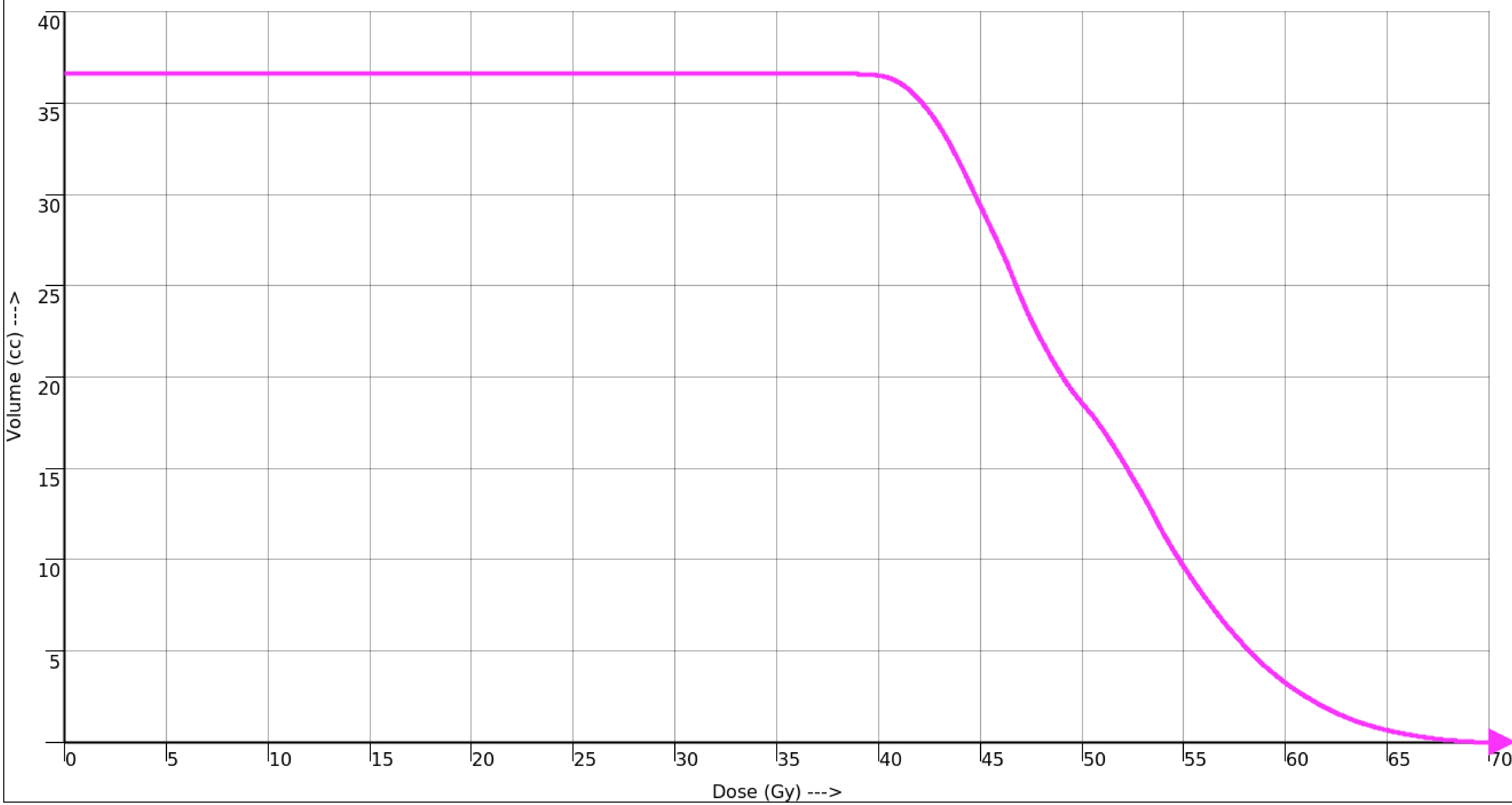
Cumulative DVH: Conformation (36.629 cc)
Min: 36.047 Gy, Mean: 50.888 Gy, Max: 70.470 Gy, Vol: 36.629 cc



METRIC	RESULT	MIN REQ	IDEAL	PERFORMANCE (PTS)	WEIGHT
Conformation Number [20 (Gy), CONFORMATION]	0.195	0.1 ✓ 0p 0.1 | 2p 0.13 | 8p 0.15 | 10p 0.2	0.2	GOOD (9.80)	10.00

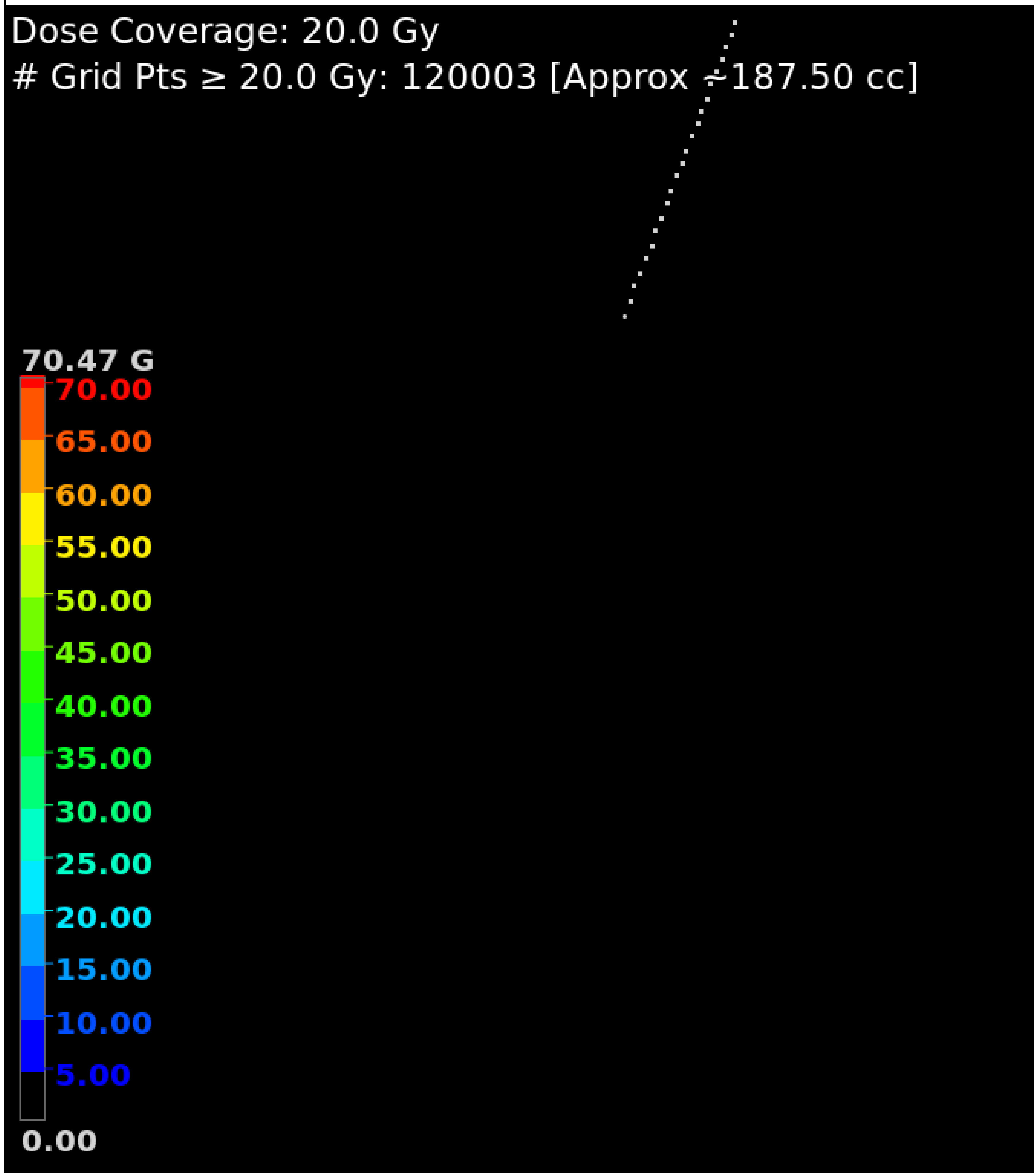
DETAILS: Conformation Vol Covered by 20.000 Gy (cc): 36.63, Conformation Vol (cc): 36.63, 20.000 Gy Irradiated Vol (cc): 187.52

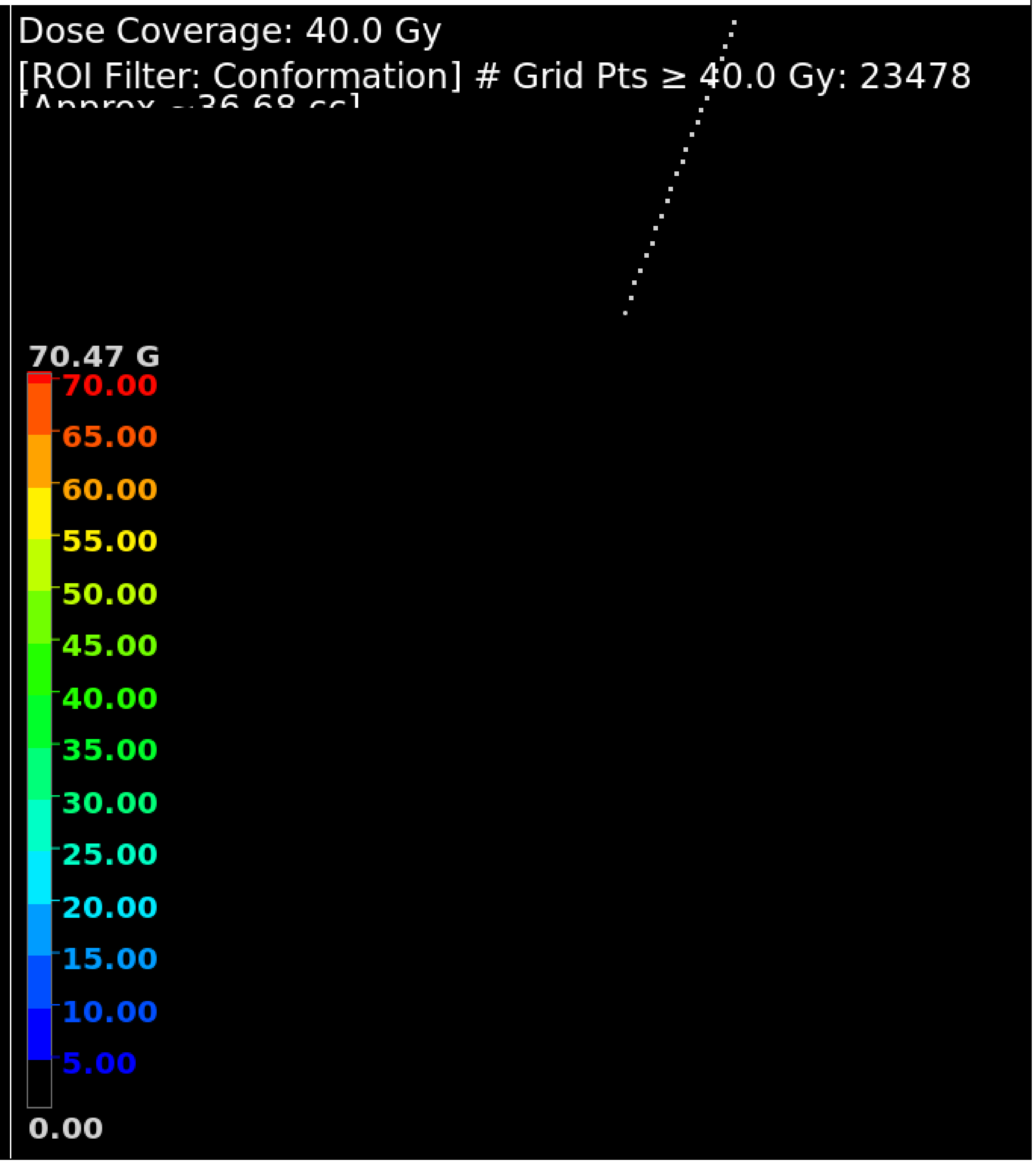
Cumulative DVH: Conformation (36.629 cc)
Min: 36.047 Gy, Mean: 50.888 Gy, Max: 70.470 Gy, Vol: 36.629 cc



METRIC	RESULT	MIN REQ					IDEAL	PERFORMANCE (PTS)	WEIGHT
Modified Gradient Index [Vol(20 Gy)/ Vol-of-CONFORMATION(40 Gy)]	5.137	8	0p 8	2.5p 7.5	4.5p 6.5	5p 5	5	GOOD (4.95)	5.00

DETAILS: Total Vol(20 Gy) / CONFORMATION Vol(40 Gy) = [187.52 cc] / [36.51 cc]





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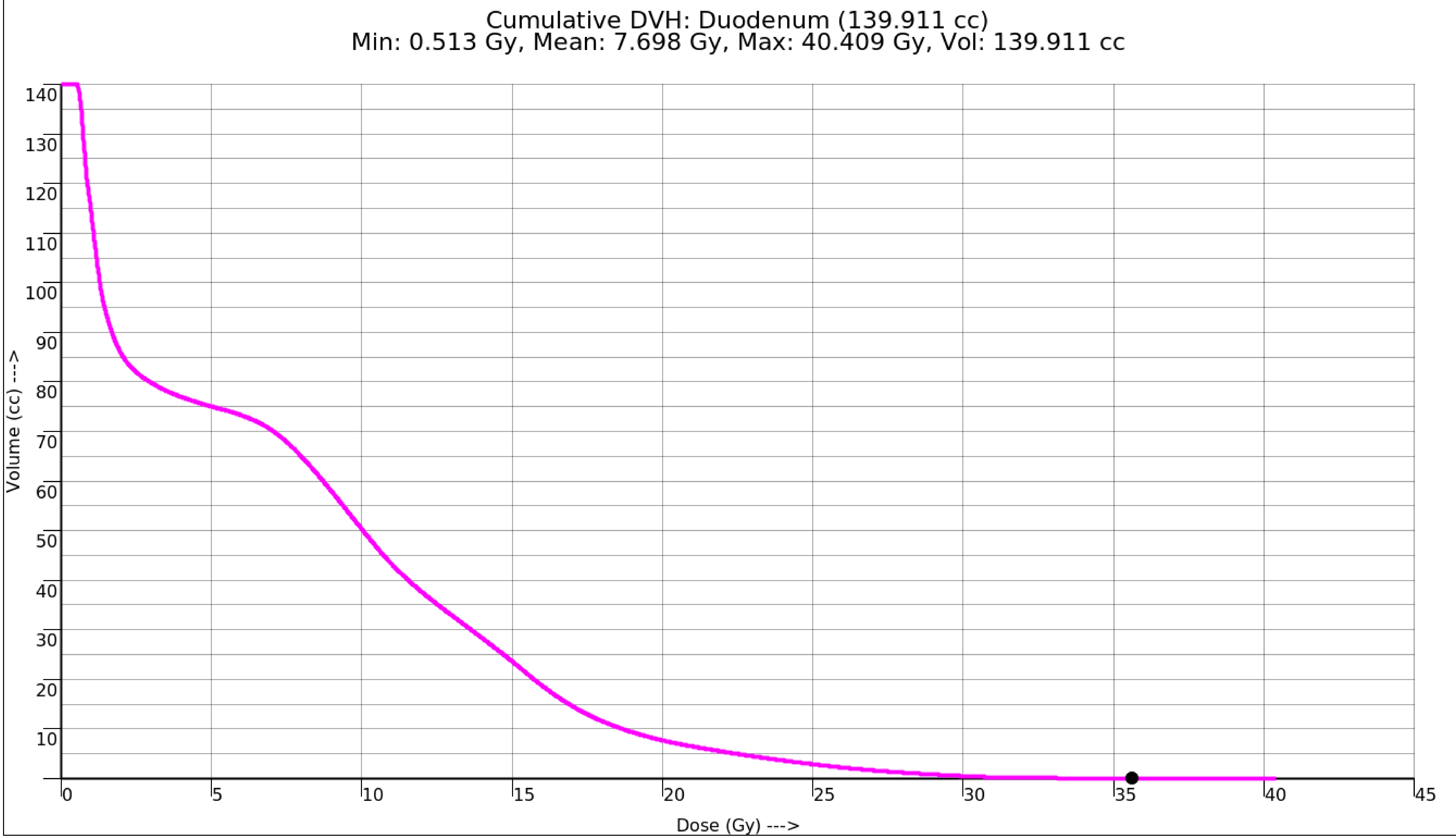
METRIC	RESULT	MIN REQ				IDEAL		PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering 0.03 (cc) of the DUODENUM	35.615	40	0p 40	2.8p 38	5.6p 36	7p 34	34	GOOD (5.87)	7.00



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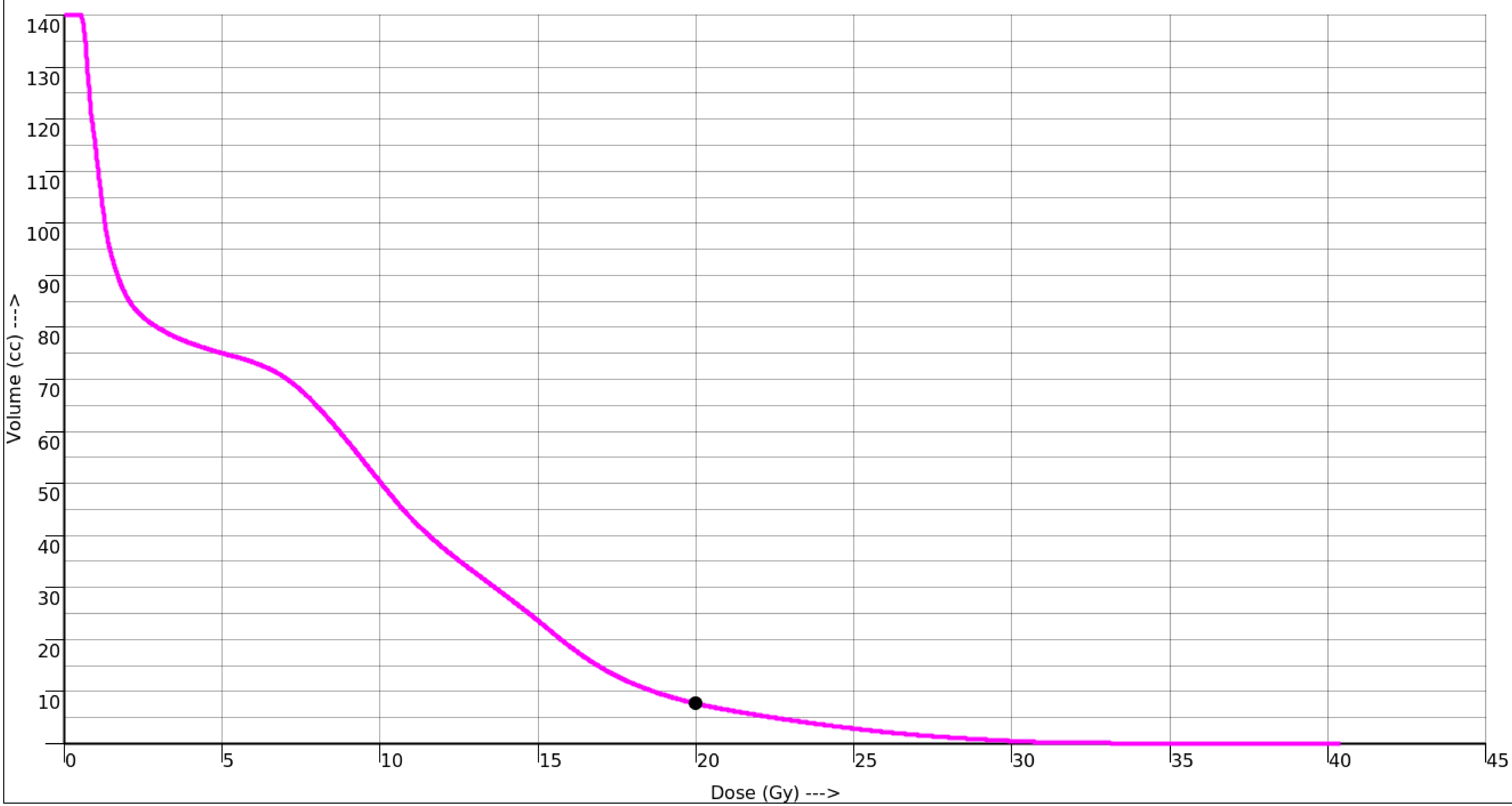
METRIC	RESULT	MIN REQ				IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the DUODENUM covered by 20 (Gy)	7.700	35 ✓	0p 35	1p 30	3p 20 5p 10	10 ✓	IDEAL (5.00)	5.00

Cumulative DVH: Duodenum (139.911 cc)
Min: 0.513 Gy, Mean: 7.698 Gy, Max: 40.409 Gy, Vol: 139.911 cc



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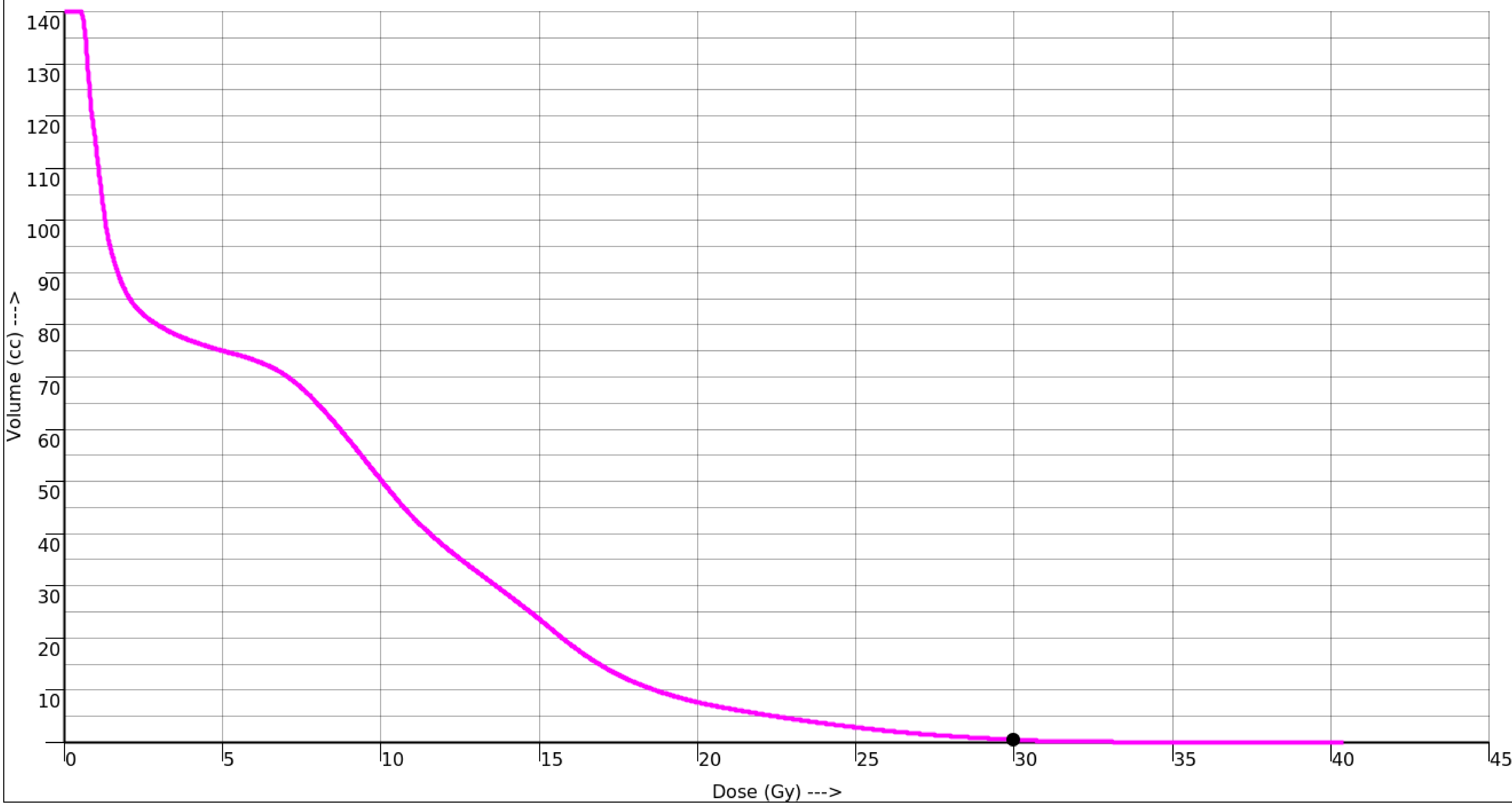
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the DUODENUM covered by 30 (Gy)	0.507	3 ✓	0p 3 0.03p 2.51p 2 5p 1	1 ✓	IDEAL (5.00)	5.00

Cumulative DVH: Duodenum (139.911 cc)
Min: 0.513 Gy, Mean: 7.698 Gy, Max: 40.409 Gy, Vol: 139.911 cc



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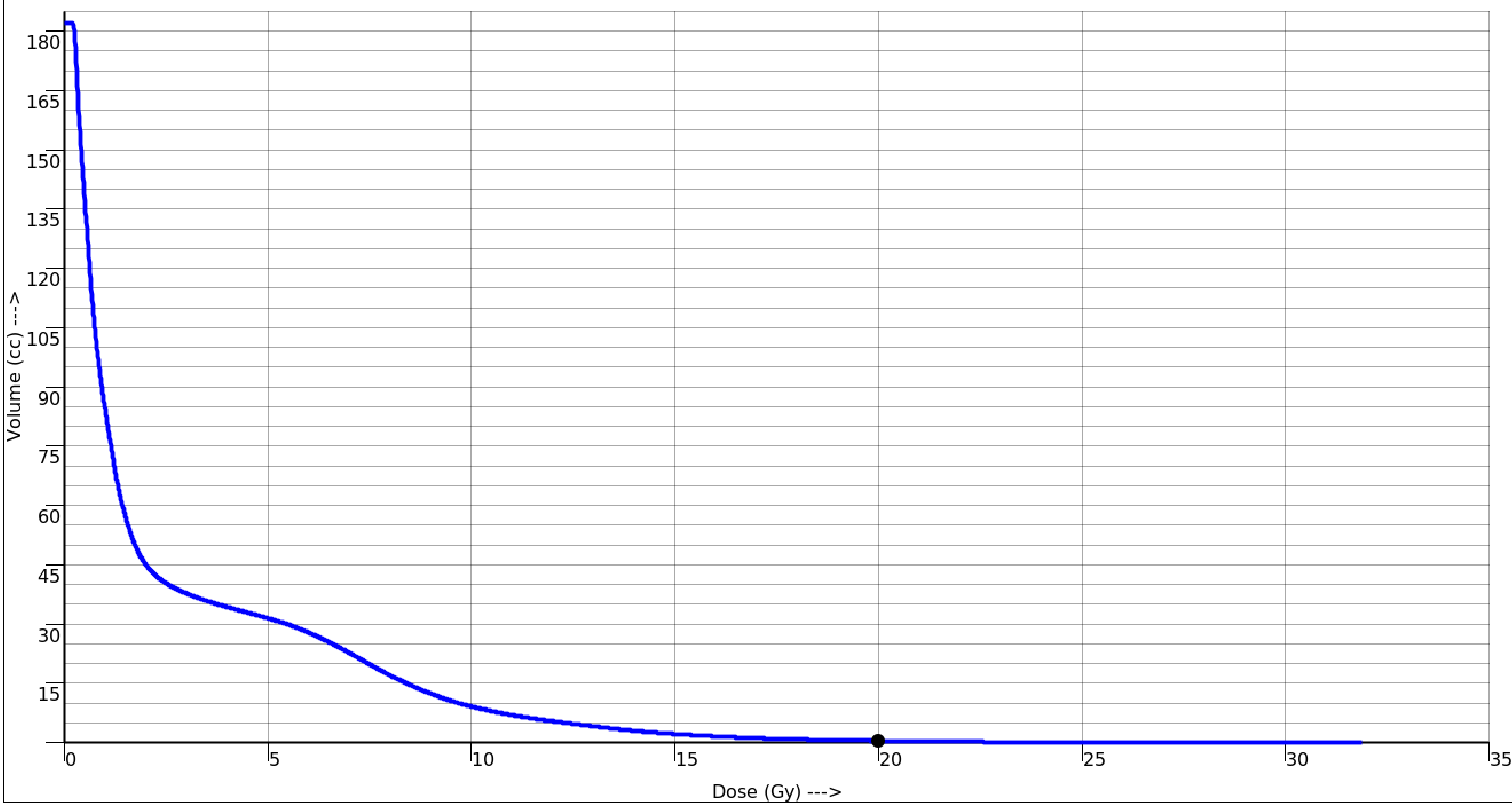
METRIC	RESULT	MIN REQ			IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the SMALLBOWEL covered by 20 (Gy)	0.407	15 ✓	0p 15	3.5 2 0.5	0.5 ✓	IDEAL (4.00)	4.00

Cumulative DVH: SmallBowel (182.000 cc)
Min: 0.198 Gy, Mean: 2.402 Gy, Max: 31.885 Gy, Vol: 182.000 cc



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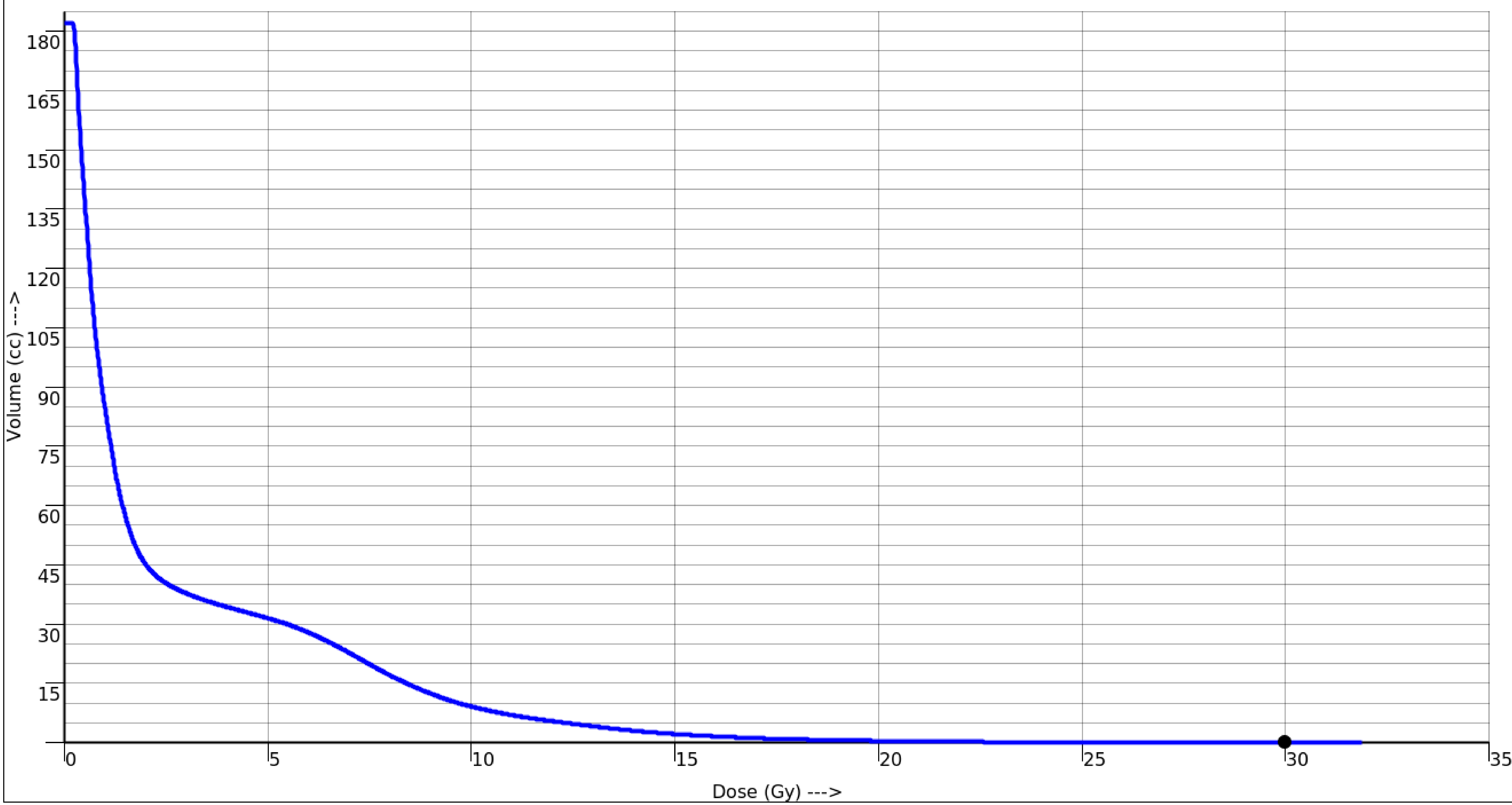
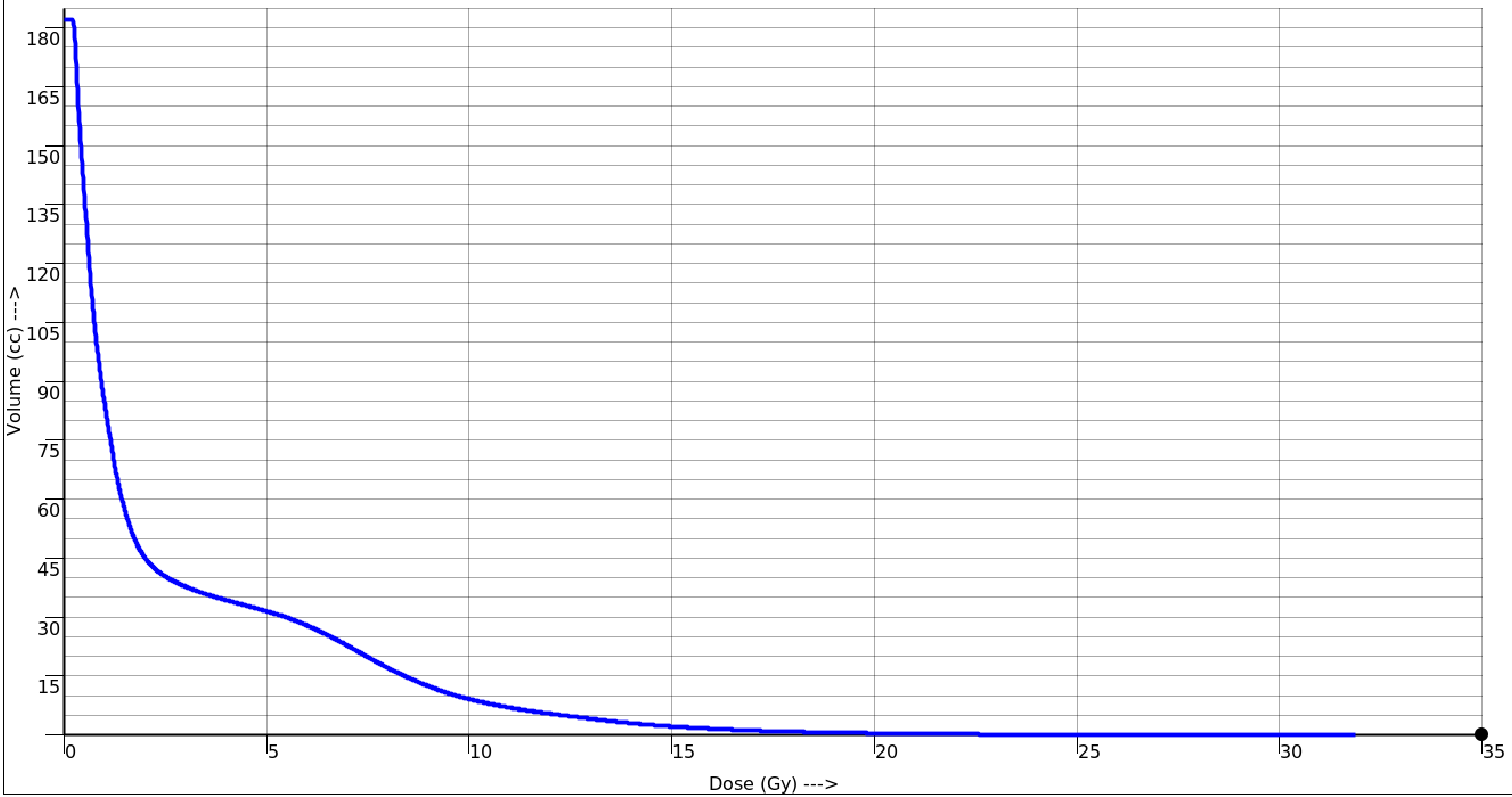
METRIC	RESULT	MIN REQ	IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the SMALLBOWEL covered by 30 (Gy)	0.002	1 ✓ 0p 1 2p 0.5 3.64p 0.10	0	GOOD (3.99)	4.00

Cumulative DVH: SmallBowel (182.000 cc)
Min: 0.198 Gy, Mean: 2.402 Gy, Max: 31.885 Gy, Vol: 182.000 cc



METRIC	RESULT	MIN REQ				IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the SMALLBOWEL covered by 35 (Gy)	0.000	0.1 ✓	0p 0.1	1.33p 0.05	3.64p 4p 0.01 0	0 ✓	IDEAL (4.00)	4.00

Cumulative DVH: SmallBowel (182.000 cc)
Min: 0.198 Gy, Mean: 2.402 Gy, Max: 31.885 Gy, Vol: 182.000 cc



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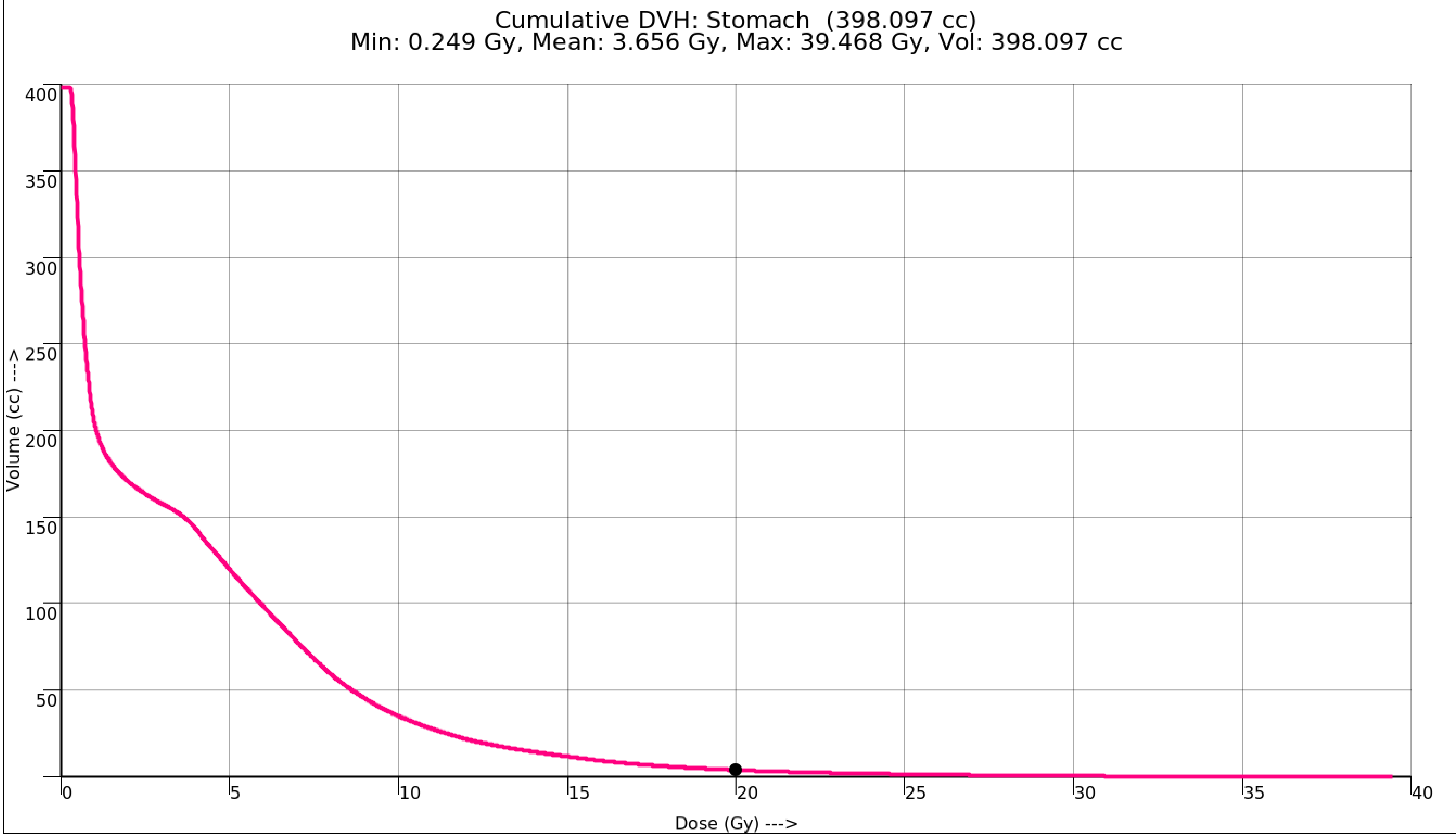
METRIC	RESULT	MIN REQ			IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the STOMACH covered by 20 (Gy)	3.867	20	0p 0.08p 20	2.25p 10	3p 5	5	IDEAL (3.00)	3.00



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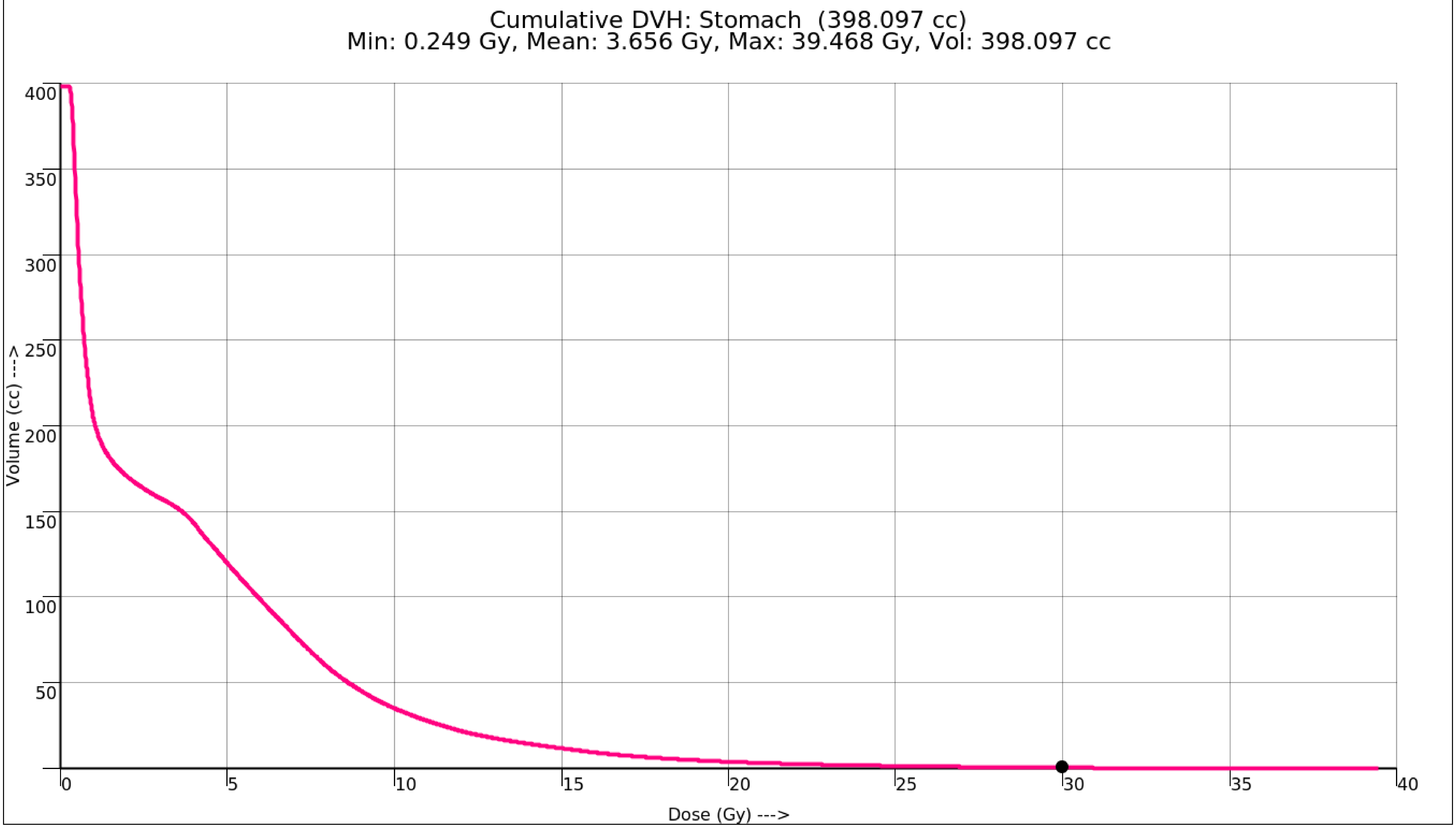
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the STOMACH covered by 30 (Gy)	0.430	2	0p 2 · 0.38p · 2.25p 1 · 3p 0	0	GOOD (2.68)	3.00



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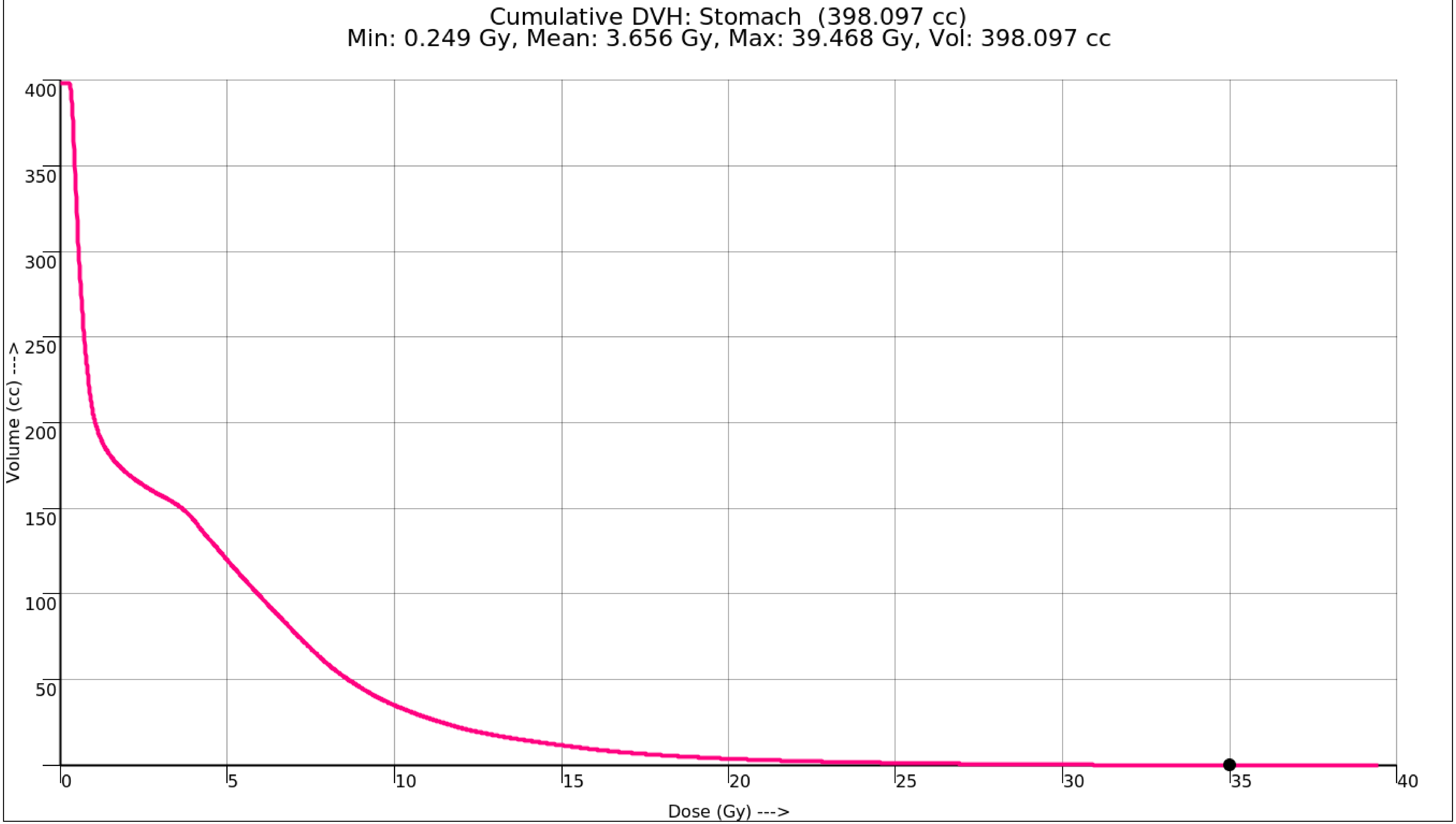
METRIC	RESULT	MIN REQ				IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the STOMACH covered by 35 (Gy)	0.060	1	0p 1.5p 1	2p 0.5	3p 0	0	GOOD (2.88)	3.00



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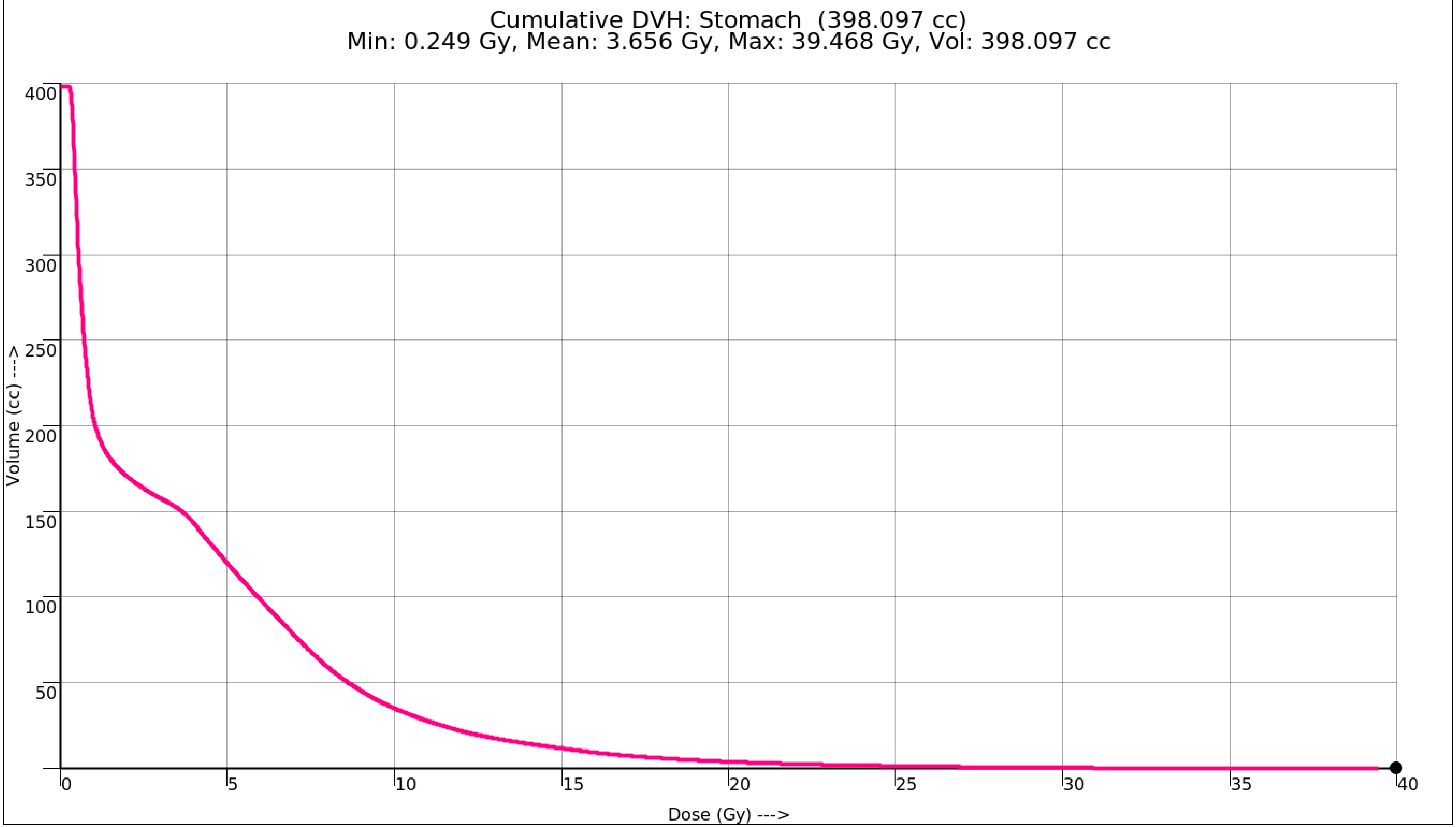
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (cc) of the STOMACH covered by 40 (Gy)	0.000	0.5	0p 0.5 / 1.5p 0.5 / 2p 0.25 / 3p 0	0	IDEAL (3.00)	3.00



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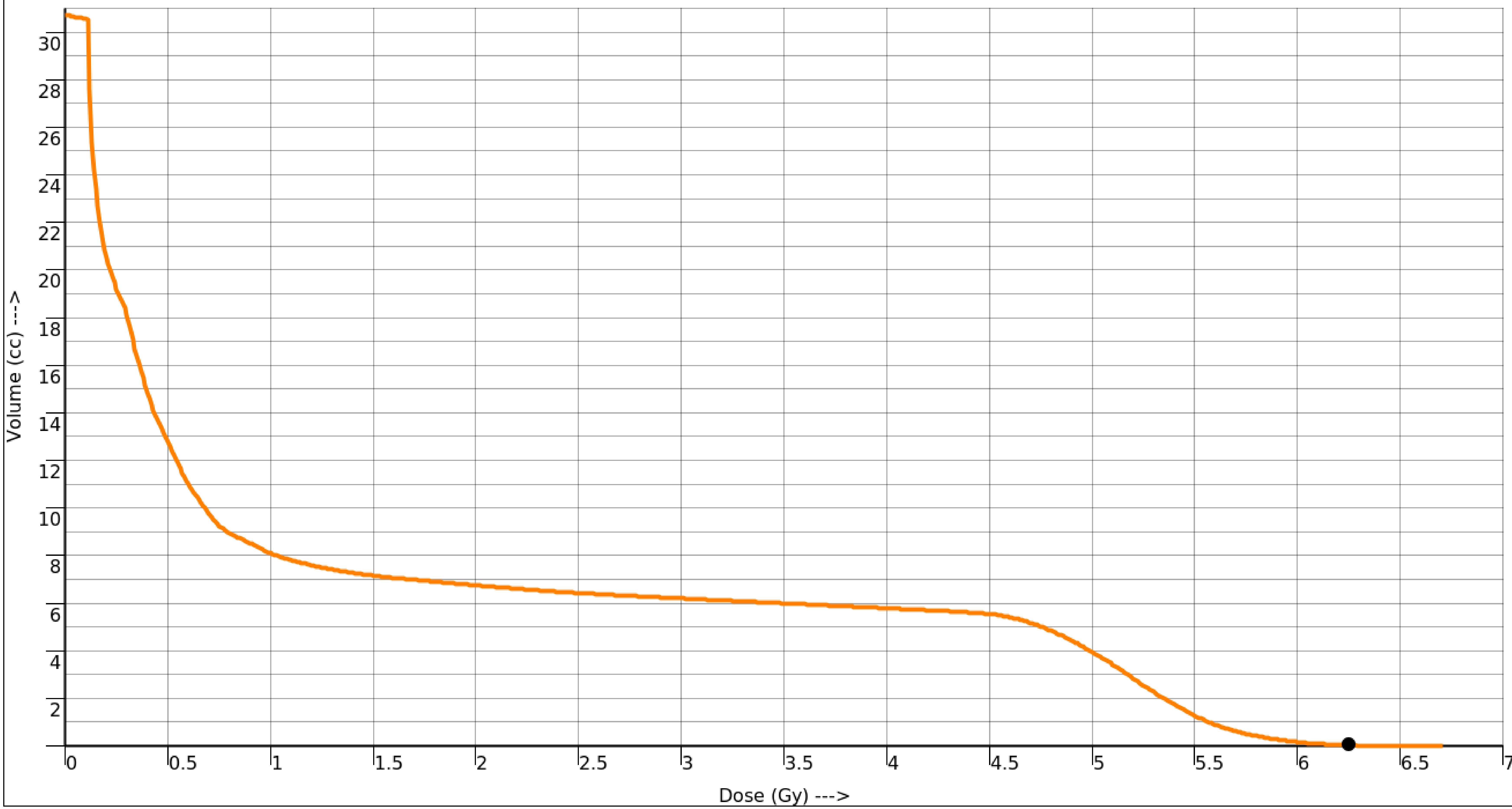
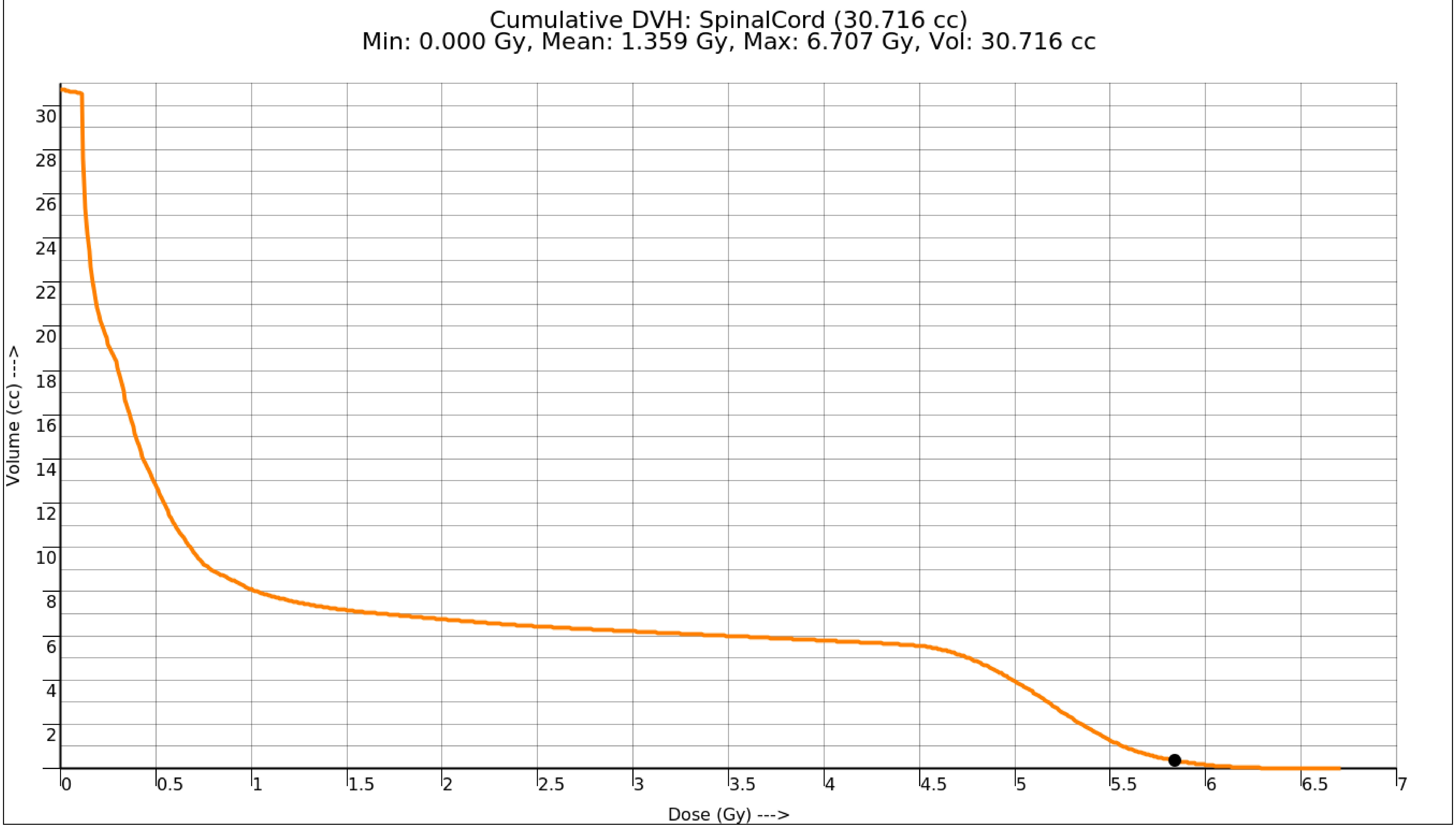
METRIC	RESULT	MIN REQ			IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering 0.03 (cc) of the SPINALCORD	6.254	28 ✓	0p 0.5p 28	2p 14	3p 7 7 ✓	IDEAL (3.00)	3.00

Cumulative DVH: SpinalCord (30.716 cc)
Min: 0.000 Gy, Mean: 1.359 Gy, Max: 6.707 Gy, Vol: 30.716 cc



METRIC	RESULT	MIN REQ			IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering 0.35 (cc) of the SPINALCORD	5.841	22 ✓	0p 1.5p 22	2p 15	3p 10 ✓	IDEAL (3.00)	3.00



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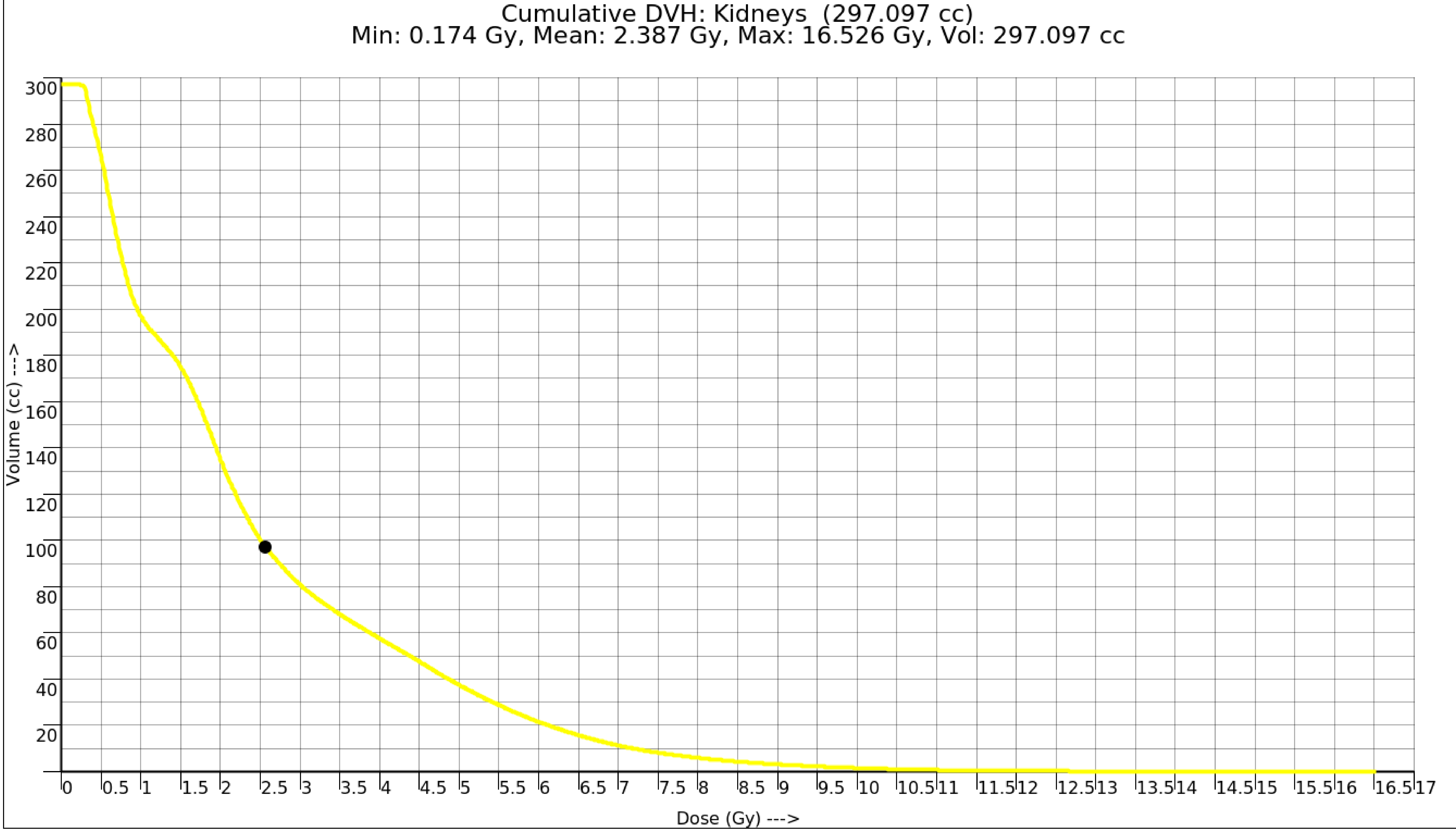
METRIC	RESULT	MIN REQ			IDEAL		PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering whole KIDNEYS minus 200 (cc)	2.569	17.5	0p 38p 17.5	2.25p 5	3p 0	0	GOOD (2.61)	3.00



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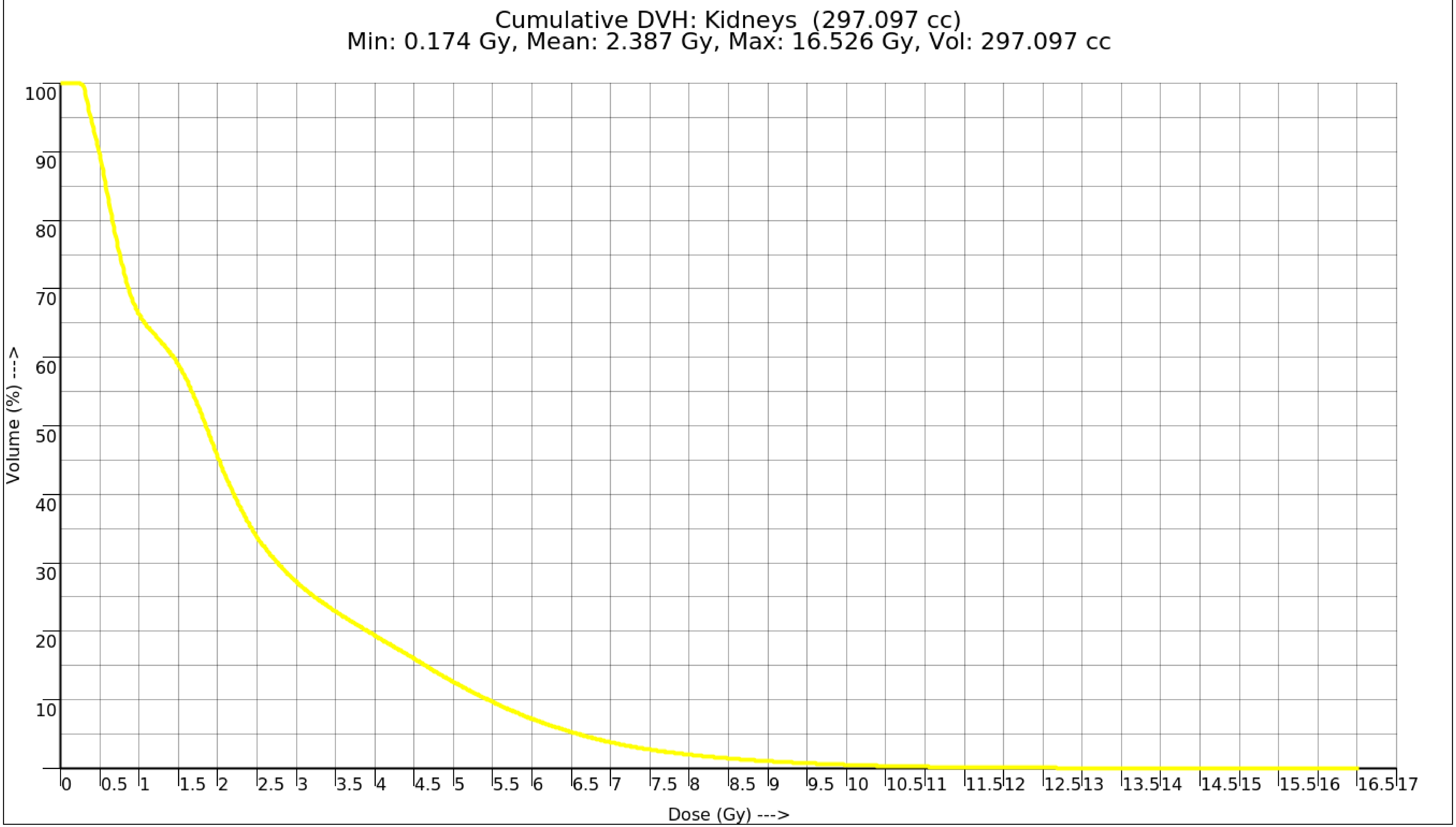
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (%) of the KIDNEYS covered by 23 (Gy)	0.000	65	0p 5p 65 ... 23p 50	0	IDEAL (3.00)	3.00



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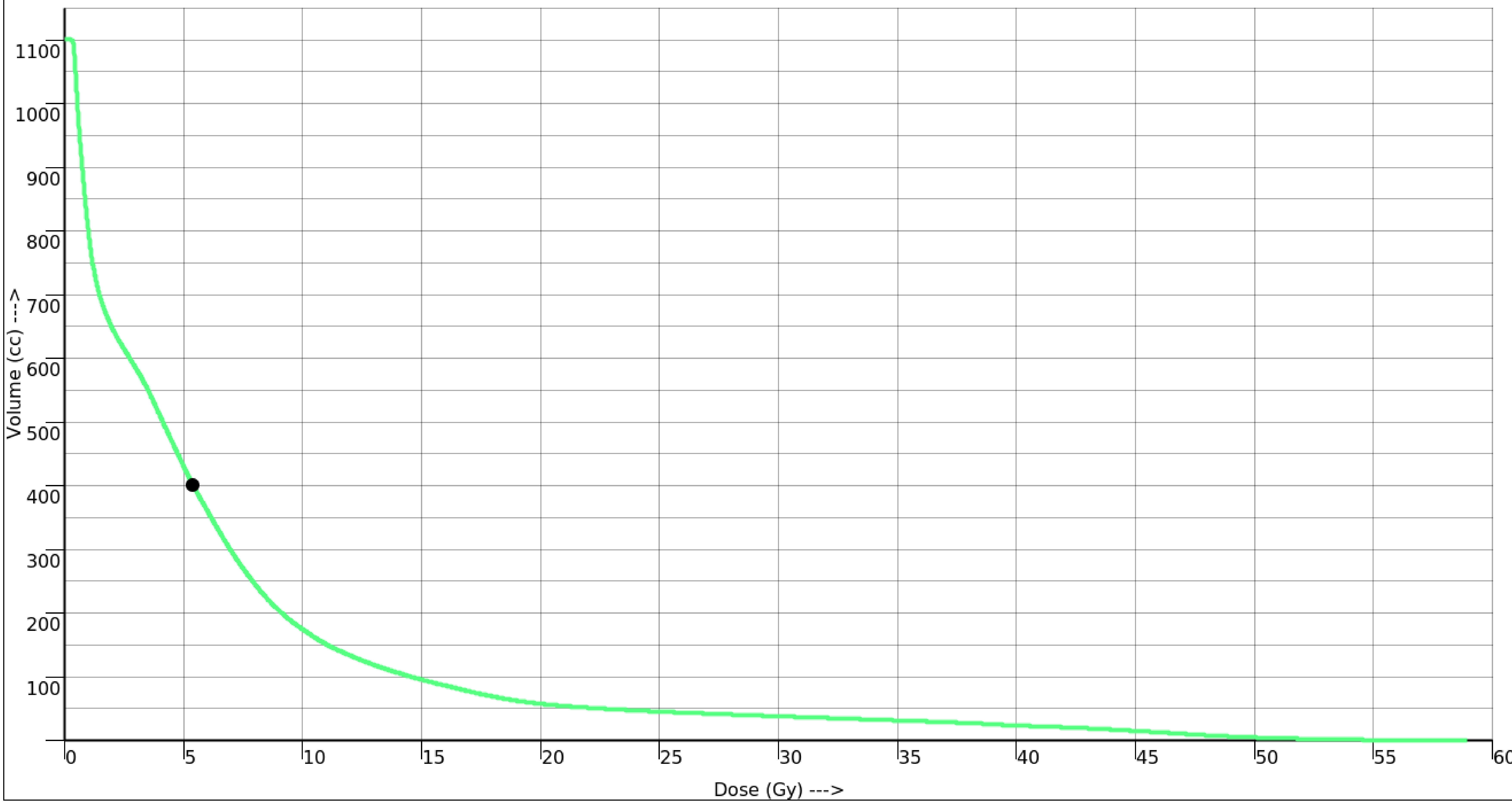
METRIC	RESULT	MIN REQ			IDEAL		PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering whole LIVER minus 700 (cc)	5.400	17	0p 17	2.4p 5	3p 2	2	ACCEPTABLE (2.32)	3.00

Cumulative DVH: Liver (1100.450 cc)
Min: 0.243 Gy, Mean: 6.063 Gy, Max: 58.951 Gy, Vol: 1100.450 cc



Performance Bin Scoring

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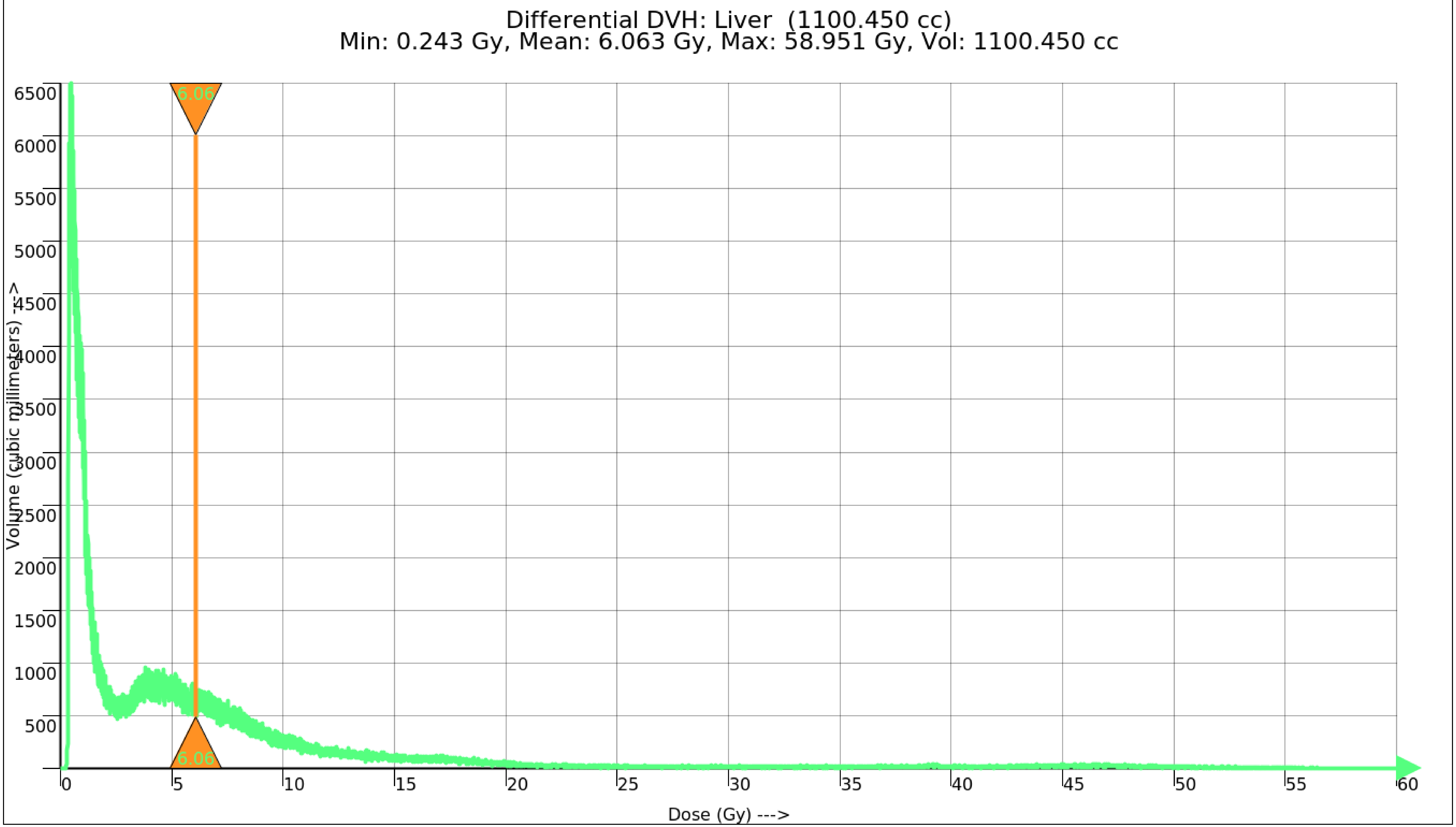
METRIC	RESULT	MIN REQ			IDEAL		PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Mean dose (Gy) to the LIVER	6.063	18	0p 18	1.85p 10	3p 5	5	GOOD (2.75)	3.00



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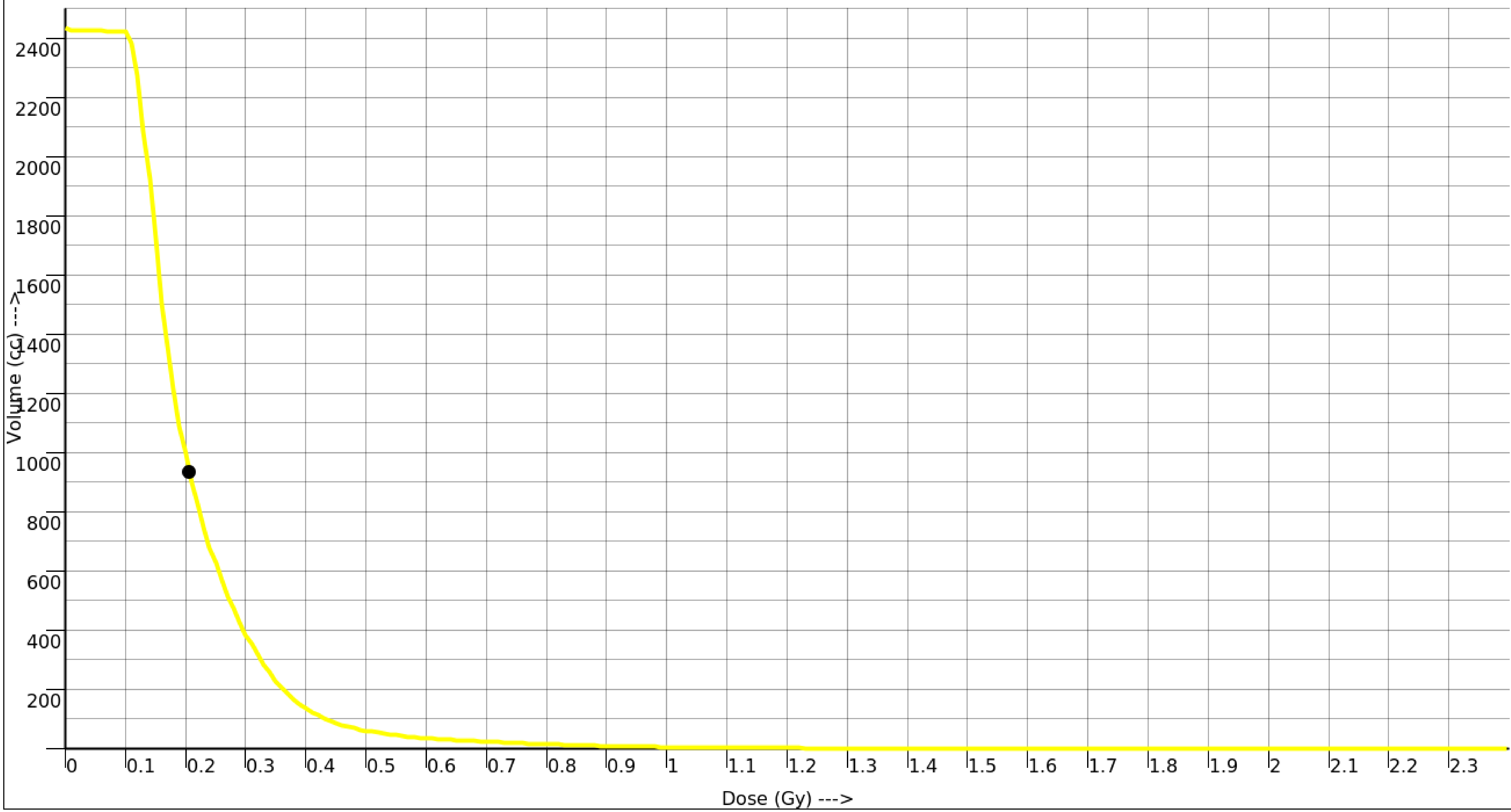
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Dose (Gy) covering whole LUNGS minus 1500 (cc)	0.206	12.5	0p 12.5 / 2.28p 3 / 3p 0	0	GOOD (2.95)	3.00

Cumulative DVH: Lungs (2433.679 cc)
Min: 0.000 Gy, Mean: 0.211 Gy, Max: 2.395 Gy, Vol: 2433.679 cc



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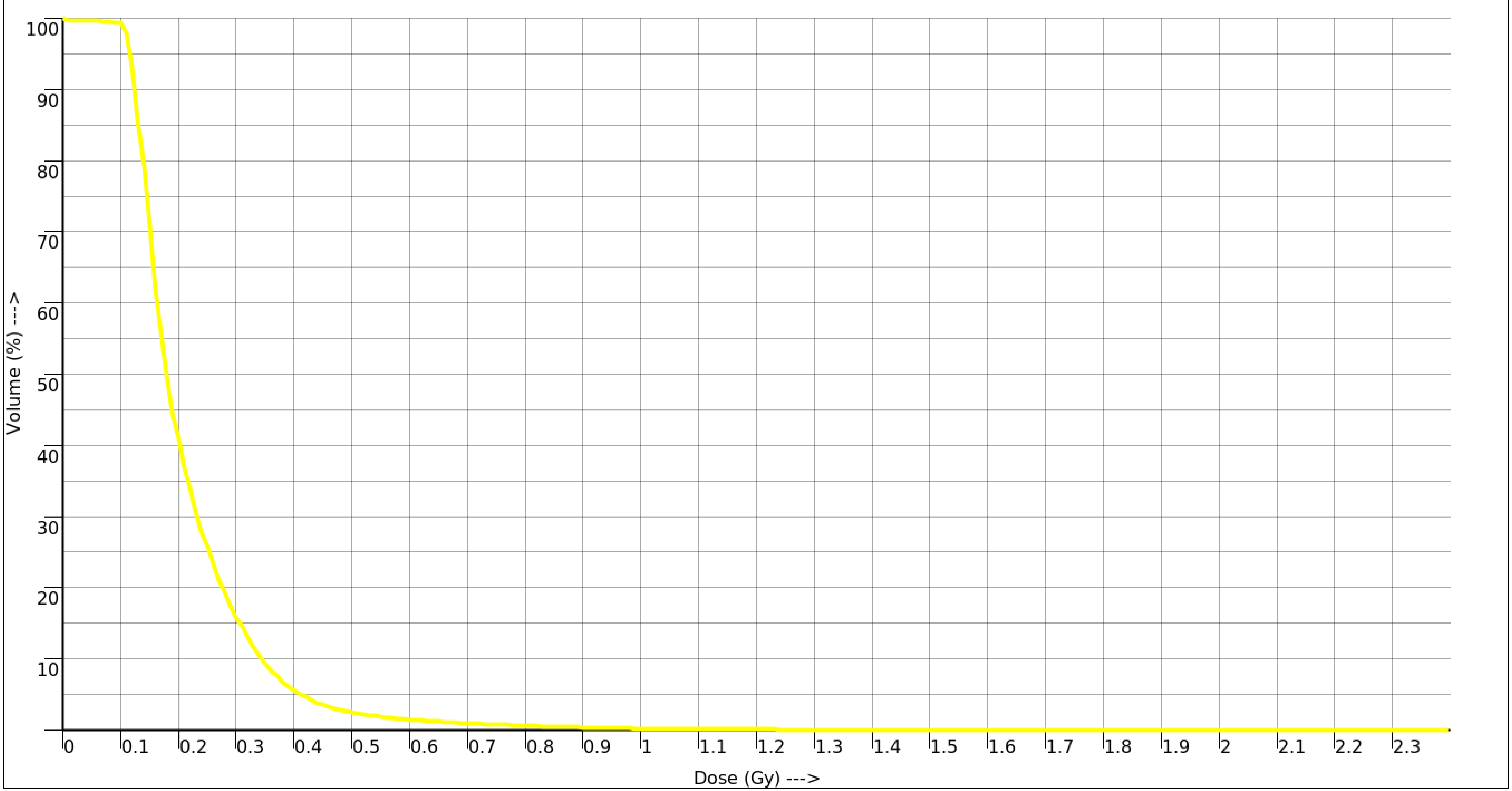
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Volume (%) of the LUNGS covered by 13.5 (Gy)	0.000	37 ✓	0p 37 2.593p 5 0	0 ✓	IDEAL (3.00)	3.00

Cumulative DVH: Lungs (2433.679 cc)
Min: 0.000 Gy, Mean: 0.211 Gy, Max: 2.395 Gy, Vol: 2433.679 cc



ProKnow

Performance Bin Scoring

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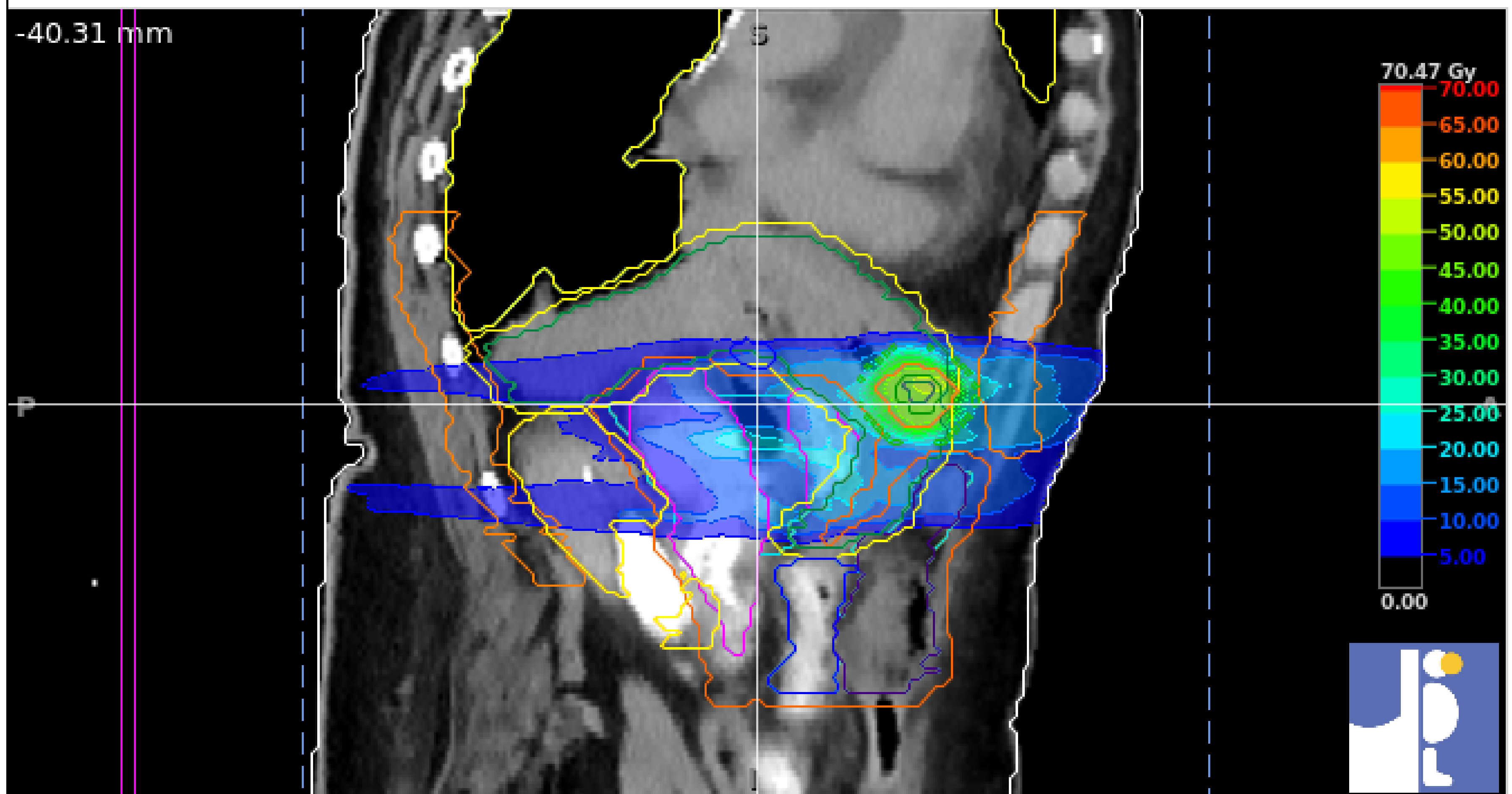
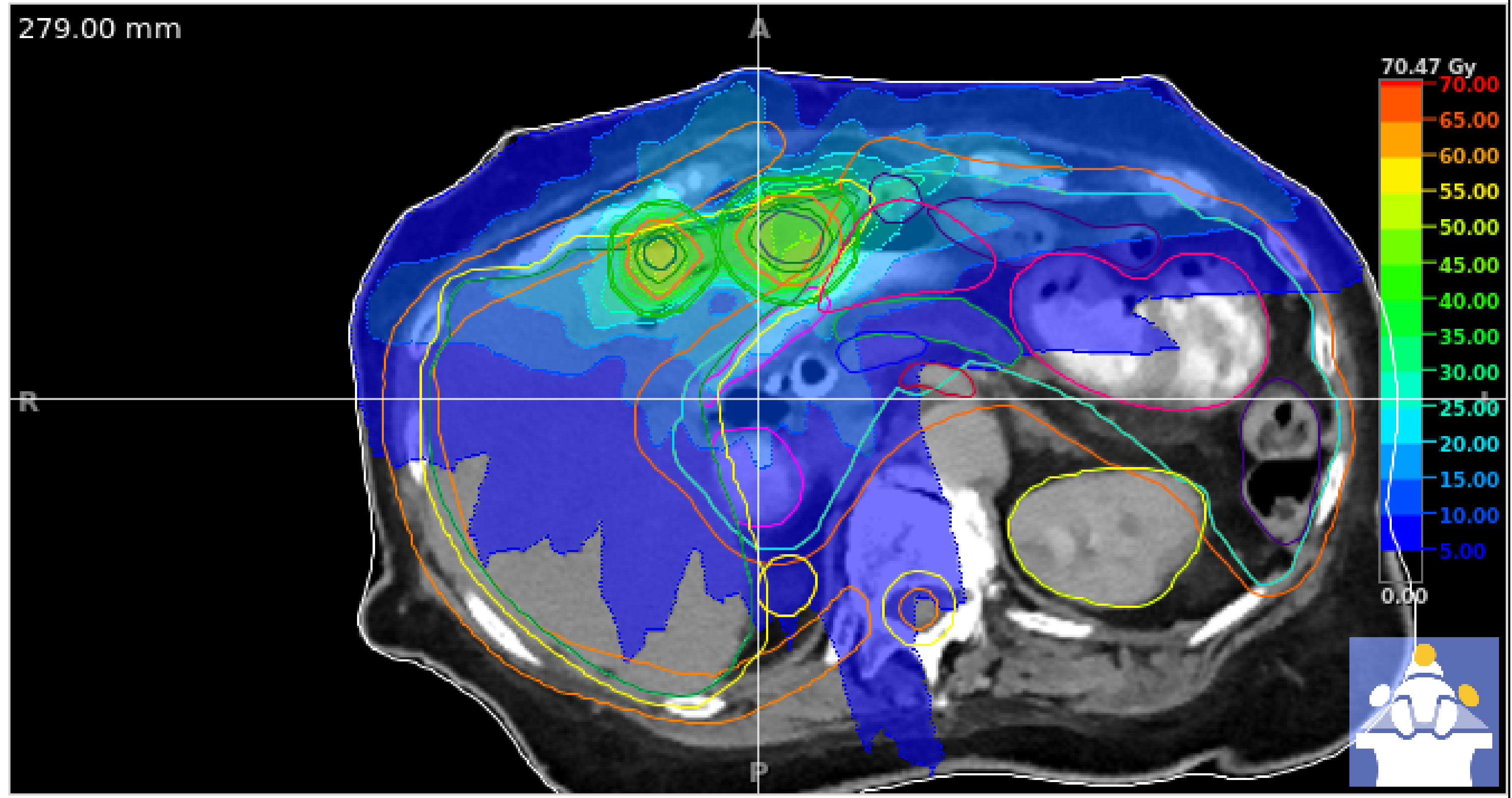
METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
[CRITICAL] Max dose voxel dimension (mm)	1.250	≤ 3 ✓	-5p ≤ 3 0p	✓	IDEAL (0.00)	0.00

DETAILS: Dose Grid Resolution: X = 1.25 mm, Y = 1.00 mm, Z = 1.25 mm

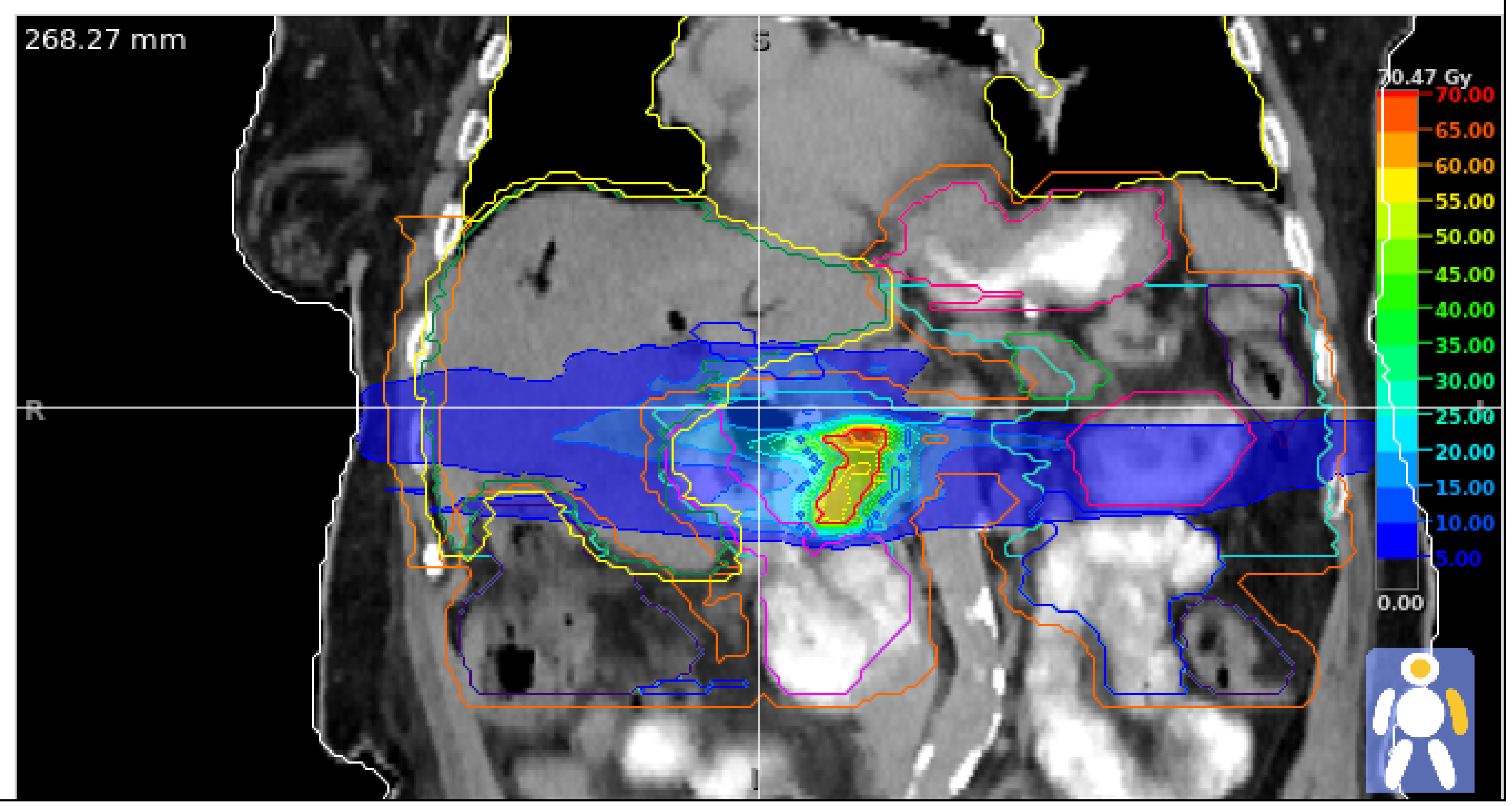
Planes Through Dose Grid Center





Global Max Dose (Gy): 70.47028
X (mm): -325.312 to 244.688 step 1.25
Y (mm): 94.0 to 464.0 step 1.0
Z (mm): 125.773 to 410.773 step 1.25
DICOM Origin (mm): (0.00, 0.00, 0.00)

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.



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Performance Bin Scoring

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METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
Cumulative meterset over all treatment beams	8187.943	---	---	---	---	---

BEAM [#] NAME	MACHINE	MODALITY	ENERGY	METERSET	BEAM-ON TIME (Est.)
[1] Field 1	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1288.704 MU	121
[2] Field 2	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1363.699 MU	128
[3] Field 3	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1597.561 MU	150
[4] Field 4	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1370.475 MU	129
[6] Field 5	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1399.069 MU	132
[7] Field 6	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1168.436 MU	110
				8187.943 (TOTAL)	12.83 min (TOTAL)

BEAM [#] NAME	ISOCENTER	GEOMETRY	MODIFIERS
[1] Field 1	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 280, Couch: 0	X Jaws, Y Jaws, MLC (X)
[2] Field 2	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 315, Couch: 0	X Jaws, Y Jaws, MLC (X)
[3] Field 3	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 345, Couch: 0	X Jaws, Y Jaws, MLC (X)
[4] Field 4	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 15, Couch: 0	X Jaws, Y Jaws, MLC (X)
[6] Field 5	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 45, Couch: 0	X Jaws, Y Jaws, MLC (X)
[7] Field 6	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 80, Couch: 0	X Jaws, Y Jaws, MLC (X)

ProKnow

Performance Bin Scoring
ProKnow®

METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
Number of treatment beams	6.000	---	---	---	---	---

BEAM [#] NAME	MACHINE	MODALITY	ENERGY	METERSET	BEAM-ON TIME (Est.)
[1] Field 1	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1288.704 MU	121
[2] Field 2	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1363.699 MU	128
[3] Field 3	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1597.561 MU	150
[4] Field 4	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1370.475 MU	129
[6] Field 5	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1399.069 MU	132
[7] Field 6	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1168.436 MU	110
				8187.943 (TOTAL)	12.83 min (TOTAL)

BEAM [#] NAME	ISOCENTER	GEOMETRY	MODIFIERS
[1] Field 1	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 280, Couch: 0	X Jaws Y Jaws, MLC (X)
[2] Field 2	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 315, Couch: 0	X Jaws Y Jaws, MLC (X)
[3] Field 3	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 345, Couch: 0	X Jaws Y Jaws, MLC (X)
[4] Field 4	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 15, Couch: 0	X Jaws Y Jaws, MLC (X)
[6] Field 5	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 45, Couch: 0	X Jaws Y Jaws, MLC (X)
[7] Field 6	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 80, Couch: 0	X Jaws Y Jaws, MLC (X)

Performance Bin Scoring

ProKnow®

METRIC	RESULT	MIN REQ		IDEAL	PERFORMANCE (PTS)	WEIGHT
Number of unique couch angles	1.000	---	---	---	---	---

BEAM [#] NAME	MACHINE	MODALITY	ENERGY	METERSET	BEAM-ON TIME (Est.)
[1] Field 1	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1288.704 MU	121
[2] Field 2	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1363.699 MU	128
[3] Field 3	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1597.561 MU	150
[4] Field 4	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1370.475 MU	129
[6] Field 5	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1399.069 MU	132
[7] Field 6	RDS3 Ti kV	VMAT (180 CPs)	6FFF MV	1168.436 MU	110
				8187.943 (TOTAL)	12.83 min (TOTAL)

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[1] Field 1	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 280, Couch: 0	X Jaws Y Jaws, MLC (X)
[2] Field 2	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 315, Couch: 0	X Jaws Y Jaws, MLC (X)
[3] Field 3	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 345, Couch: 0	X Jaws Y Jaws, MLC (X)
[4] Field 4	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 15, Couch: 0	X Jaws Y Jaws, MLC (X)
[6] Field 5	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CW): 181 to 179, Collimator: 45, Couch: 0	X Jaws Y Jaws, MLC (X)
[7] Field 6	0, 0, 0 (DICOM -32.8, -302, 272.2)	Gantry (Dynamic CCW): 179 to 181, Collimator: 80, Couch: 0	X Jaws Y Jaws, MLC (X)