

Pt:Anterior Tutorial, Right eye, DOB: Oct 31, 1952, M, T=168.00 hrs, PREPLAN

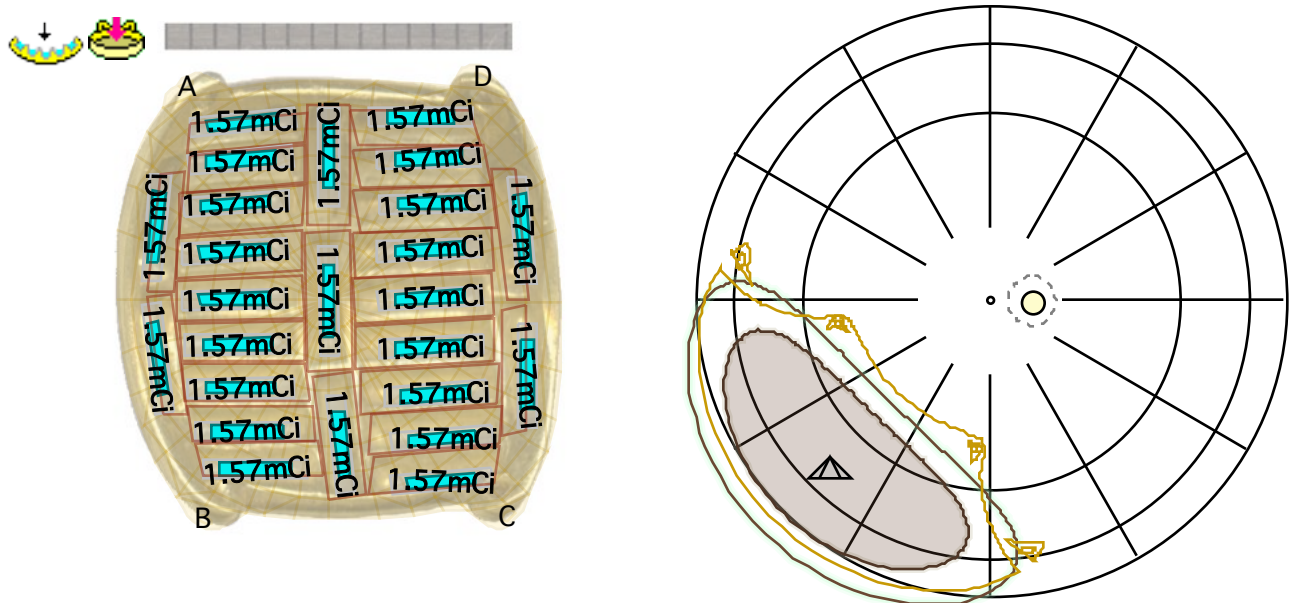
Plaque Simulator Treatment Plan

Patient name:	Anterior Tutorial	PSID: 194B71E7
Medical record #:		Ethnicity code: 0
CPT Code(s):	77263	
Other:		Gender: M
Institution:		DOB: Oct 31, 1952
Implant:	Mon Jun 23, 2014 at 10:00 _____	Age at implant: 62
Removal:	Mon Jun 30, 2014 at 10:00 _____	
Duration (hours):	168.000	Range: ± 3.36 hr (2.0%)
Prescription:	85.00 Gy to Tumor 1 TAX Inner+ 7.00 mm	

Plaque:	1 (EP2025P)
Nominal diameter:	19.98 mm
Number of sources:	25 of 25
Suture coordinates:	A (9:18,3.9mm), B (5:43,3.9mm)
Scleral offset:	-0.50 mm
Wobble (x,y,z):	0.00,0.00,13.00°
Total strength:	I-125 (IAI-125A) 49.90U (39.29mCi) on 6/23/14
Avg. strength:	1.996U (1.572mCi) on 6/23/14

Tumor #:	1
Apex (margin):	4.52 mm (2.00 mm)
Post.pole->center (ext.coord):	18.0 mm (7:28,6.6mm)
Radial x Circumferential:	11.03 x 13.05 mm
Length x Width:	13.08 x 11.07 mm
Area (Volume):	135.6 sq.mm (0.36 mL)
% of retinal surface:	9.6 %

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EP2025P CAX (mm)	Avg. Dose Rate (cGy/hr)	Total Dose (Gy)	
0.00	205.8	345.7	
1.00	126.1	211.9	
2.00	123.7	207.8	
3.00	111.6	187.5	
4.00	99.42	167.0	
5.00	84.21	141.5	
6.00	69.72	117.1	
7.00	58.00	97.45	
8.00	48.52	81.51	
9.00	40.69	68.36	
10.00	34.22	57.48	
Critical Site	Avg. Dose Rate (cGy/hr)	Total Dose (Gy)	Distance From Plaque (mm)
Prescription point	50.60	85.00	8.021 Tumor 1 TAX Inner+ 7.00 mm
Sclera	157.4	264.5	0.500(from plaque center)
QA_Point	69.72	117.1	6.000(from plaque center)
QA_Check (isotropic pt srce in water)	72.82	122.3	Point/Check = 0.96
Optic disc	8.422	14.15	20.31(center to center)
Opposite retina	5.759	9.676	23.37(from plaque center)
Lens	24.69	41.47	11.73(center to center)
Eye origin	25.56	42.94	11.93(from plaque center)
Macula (posterior pole)	10.58	17.78	18.62(center to center)
Apex of tumor #1	67.20	112.9	6.432(from plaque center)
Dose calc. mode: Line, F[Ø], B[r], Pexp, no T, Slot			

RADIATION SAFETY SURVEYS:

In: OR# _____ mR/hr meter _____

signature _____ date _____

Out: OR# _____ mR/hr meter _____

Patient _____ mR/hr meter _____

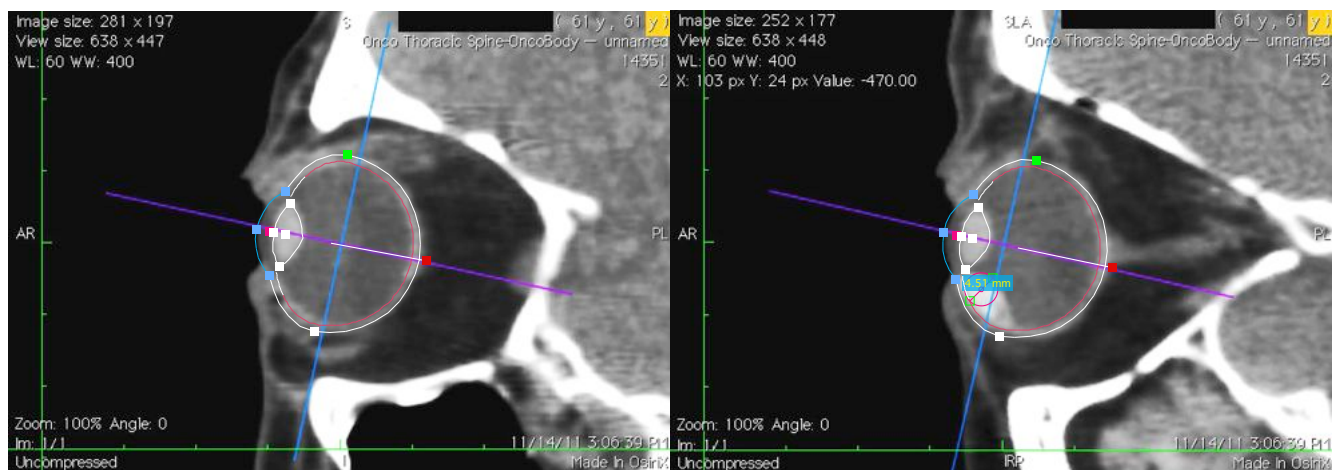
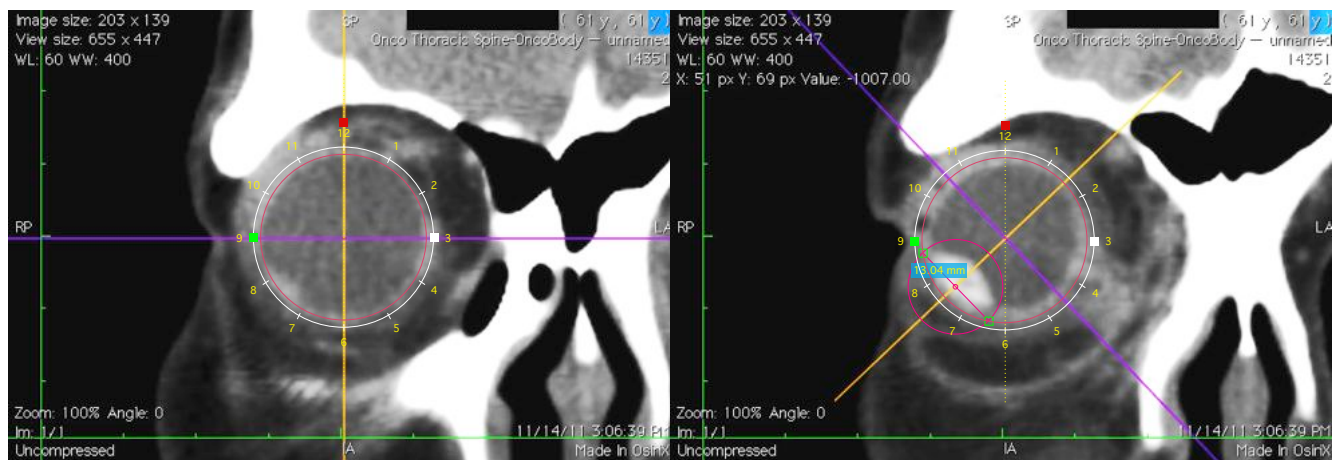
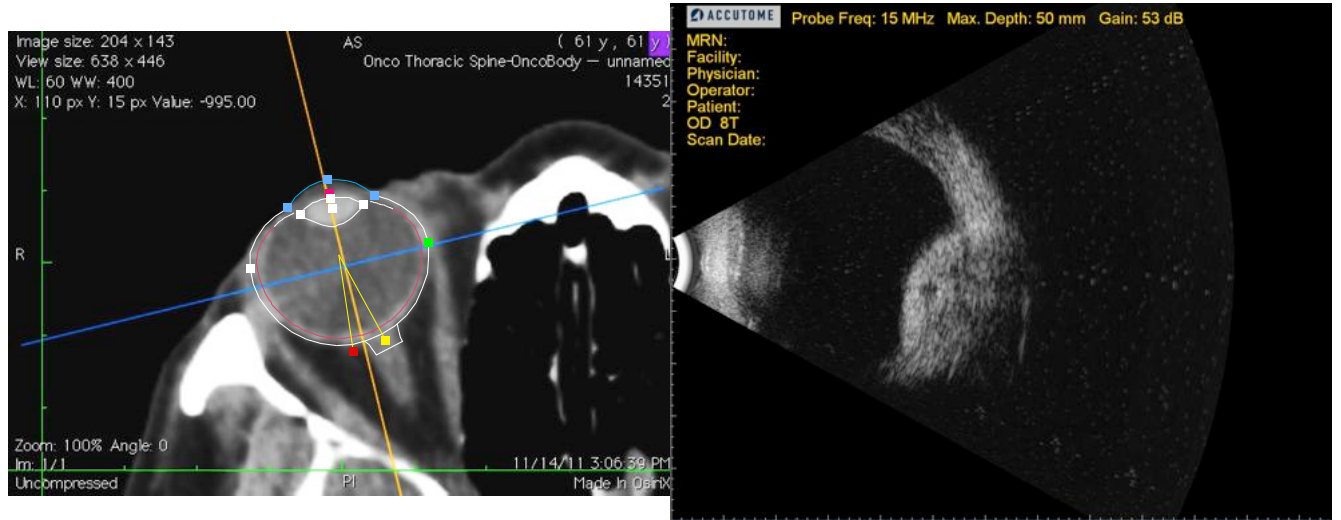
#seeds returned _____ misc. _____

signature _____ date _____



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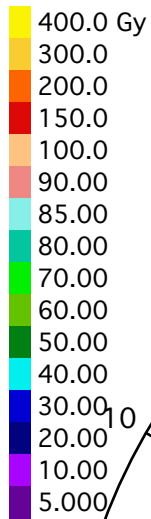
Plaque Simulator Treatment Plan



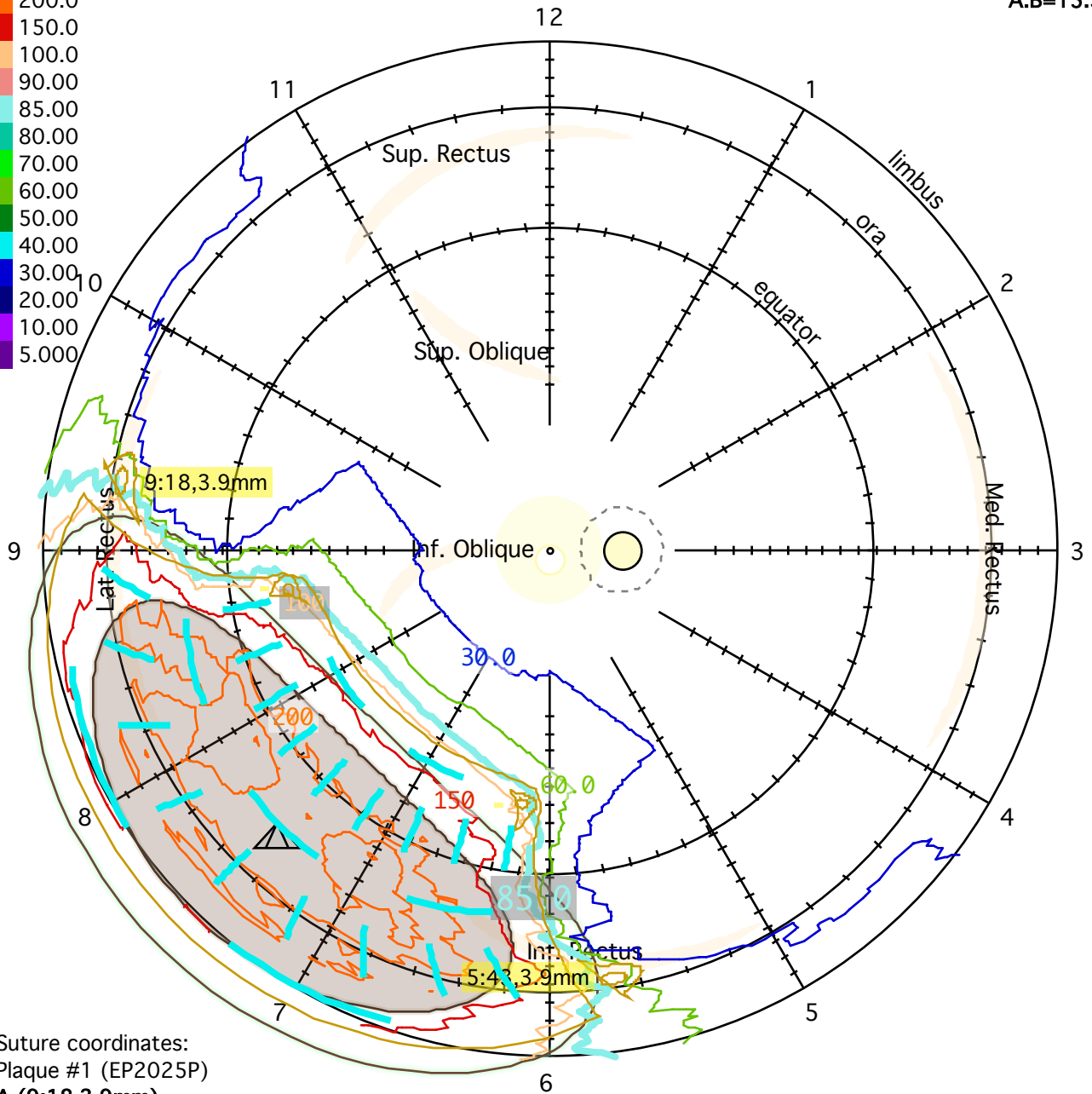
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Plaque Simulator Retinal Diagram

Rx plaque:	1 (EP2025P)
Dose matrix set:	1 (retinal surface)
Prescribed (Rx) dose:	85.00 Gy to Tumor 1 TAX Inner+ 7.00 mm
Dose matrix max:	239.26 Gy



Distance between sutures (mm):
Plaque #1 (EP2025P)
A:B=15.3



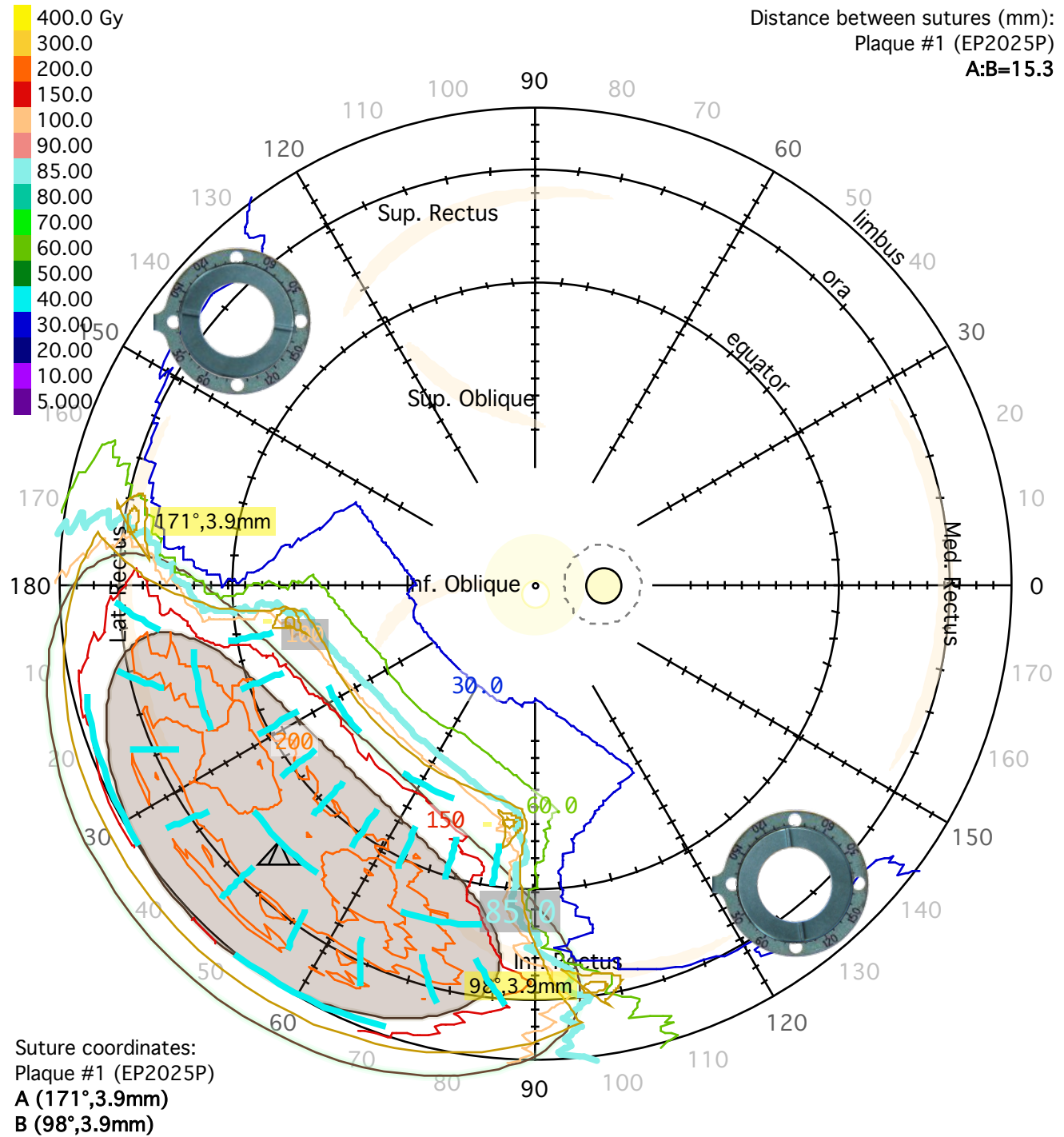
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Plaque #1 (EP2025P)
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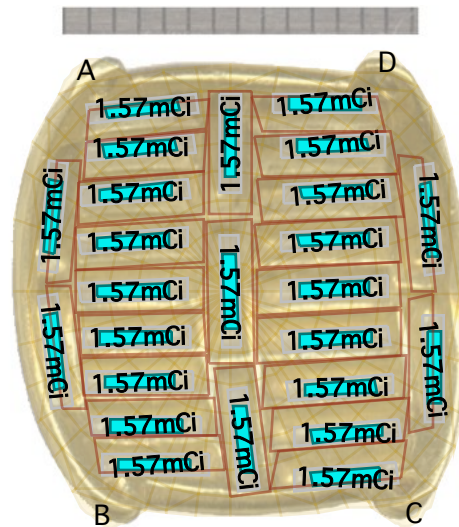
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Plaque Simulator Loading Diagram

Radionuclide source summary:	
Plaque #:	1
Plaque name:	EP2025P
Radionuclide:	I-125 (IAI-125A)
Inventory name:	Anterior Tutorial
Number of sources:	25
Assay date:	6/23/14
Avg. (total) strength @ assay:	1.57 mCi (39.29 mCi)
Avg. (total) strength @ implant:	1.57 mCi (39.29 mCi)

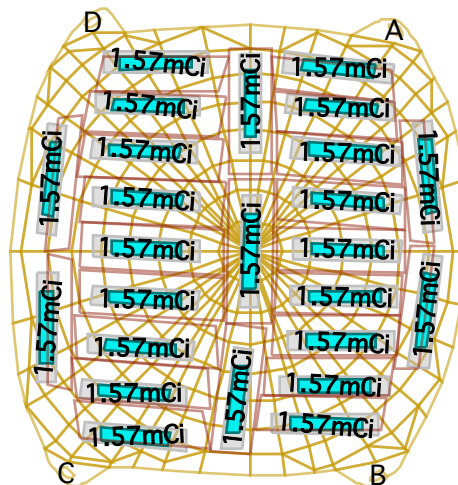
EP2025P

FACE (concave view)



EP2025P

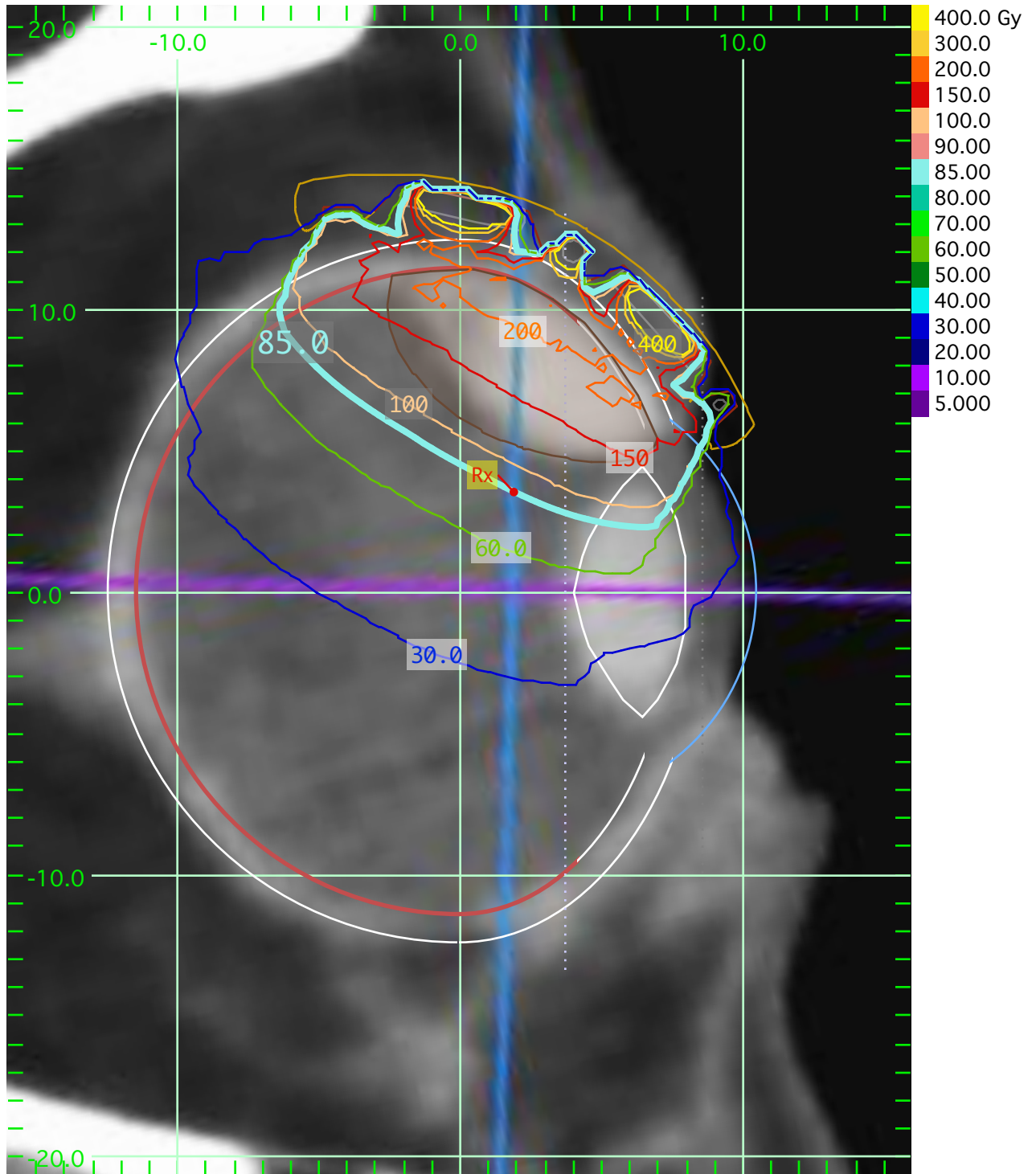
BACK (convex view)



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Plaque Simulator Isodose Plot

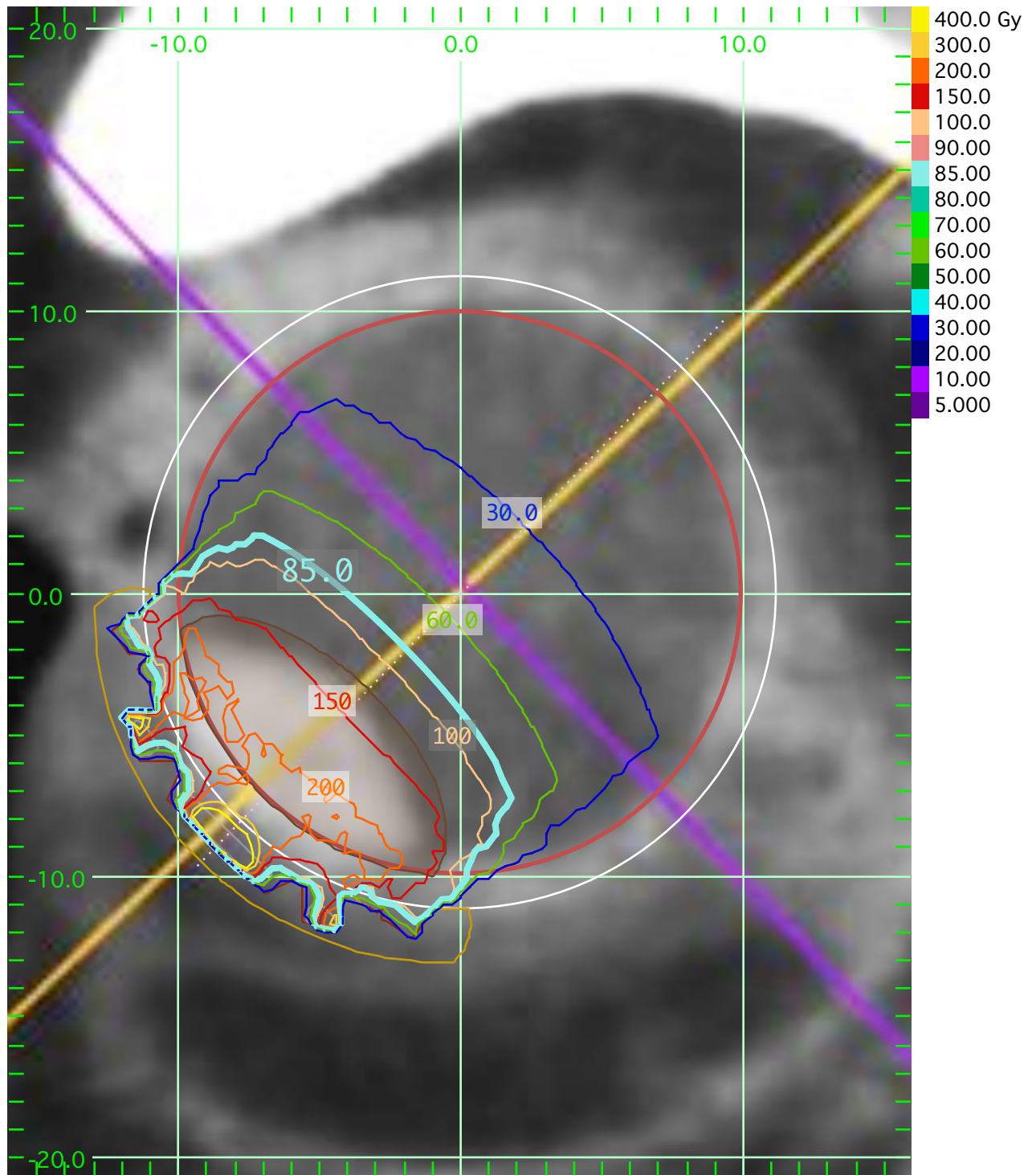
Markers	1 mm
Prescribed (Rx) dose	85.00 Gy to Tumor 1 TAX Inner+ 7.00 mm
Dose matrix set	1
Meridian plane longitudes	316.0° & 136.0°
Dose matrix maximum	10311.25 Gy



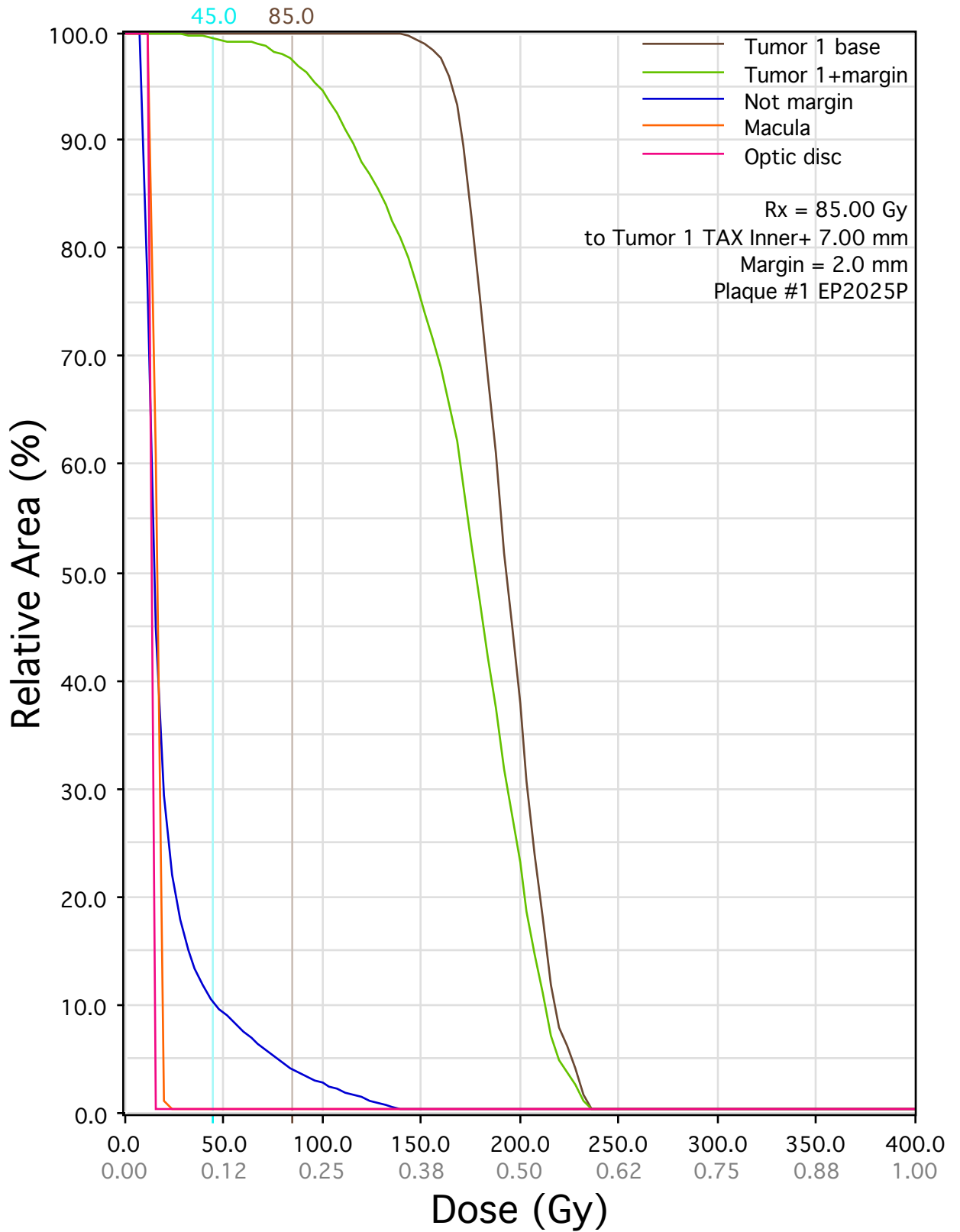
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Plaque Simulator Isodose Plot

Markers	1 mm
Prescribed (Rx) dose	85.00 Gy to Tumor 1 TAX Inner+ 7.00 mm
Dose matrix set	1
Equatorial plane offset	3.7 mm
Dose matrix maximum	1228.77 Gy



Plaque Simulator Retina Dose-Area Histogram



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Plaque Simulator QA Check (isotropic point source in water)

Plaque #1 EP2025P, implant 6/23/14 for T = 168.00 hours												
Tavg (hours) = 1.443 x 24.0 x half-life(in days)												
r = distance from source center to QA point on plaque CAX at (6.0,0.0,0.0)												
Dose (Gy) = Strength {x ActivityToSk} x Tavg x DoseRateConstant x (1 - exp(-T/Tavg)) x (1/r^2) x g(r)												
S#	Model	Strength @implant	Activity to Sk	Tavg hours	Dose-Rate Constant	X mm	Y mm	Z mm	r mm	g(r)	Dose Gy	Check by
1	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.587	0.515	-5.891	8.017	1.025	5.036	_____
2	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.597	0.000	5.934	8.025	1.024	5.024	_____
3	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	-0.800	0.000	0.000	6.800	1.038	7.091	_____
4	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	1.991	-3.535	7.345	9.084	1.012	3.874	_____
5	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	1.076	-3.609	5.775	8.404	1.020	4.562	_____
6	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.398	-3.811	3.987	7.862	1.026	5.245	_____
7	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	-0.060	-3.869	2.040	7.474	1.031	5.829	_____
8	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	-0.226	-3.866	0.067	7.329	1.032	6.072	_____
9	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	-0.135	-3.746	-1.795	7.409	1.031	5.936	_____
10	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.212	-3.624	-3.574	7.707	1.028	5.467	_____
11	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.790	-3.341	-5.347	8.180	1.023	4.829	_____
12	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	1.539	-3.004	-6.908	8.755	1.016	4.188	_____
13	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	2.462	4.624	-7.400	9.415	1.008	3.593	_____
14	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	1.397	4.657	-5.649	8.648	1.017	4.296	_____
15	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.546	4.400	-3.825	7.984	1.025	5.079	_____
16	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.018	4.195	-1.868	7.542	1.030	5.720	_____
17	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	-0.135	4.152	0.130	7.409	1.031	5.936	_____
18	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.034	4.131	2.105	7.555	1.030	5.699	_____
19	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	0.546	4.229	4.013	7.984	1.025	5.079	_____
20	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	1.283	4.099	5.854	8.563	1.018	4.387	_____
21	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	2.237	3.775	7.571	9.259	1.010	3.723	_____
22	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	1.672	-7.109	3.018	8.853	1.015	4.090	_____
23	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	1.448	-7.008	-2.372	8.687	1.017	4.256	_____
24	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	2.432	8.140	-3.043	9.394	1.009	3.610	_____
25	IAAI	1.572mCi	1.27U/mCi	2057.14	0.981	2.252	7.966	2.900	9.269	1.010	3.713	_____
									QA_Point Dose = 117.12	QA_Check Dose = 122.33	_____	
									Point / Check = 0.96			

EP2025P



Plaque Simulator Setup

