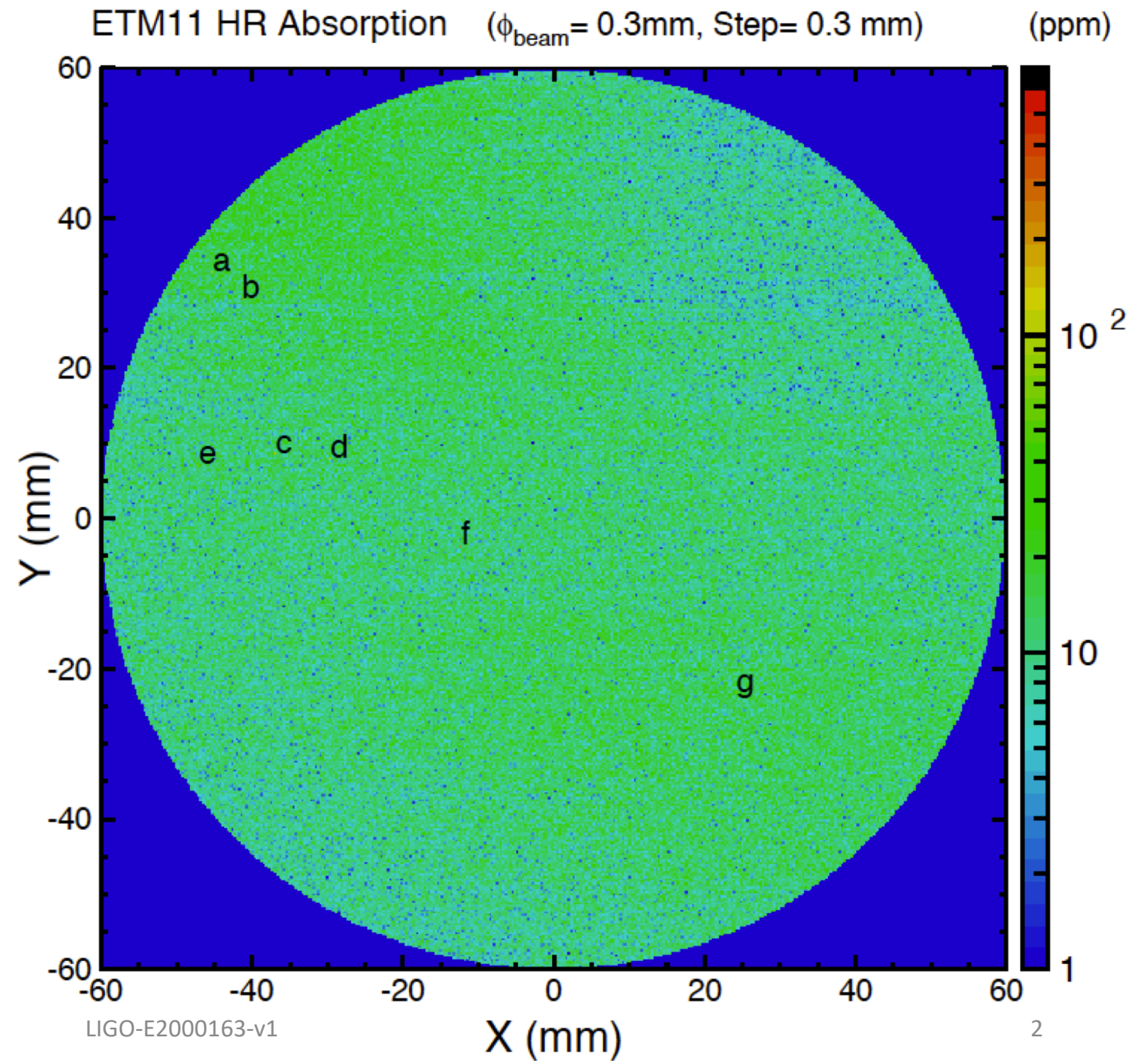


# ETM11 absorber locations and images

LMA HR coating run **C14058**

Zhang, Billingsley  
2019

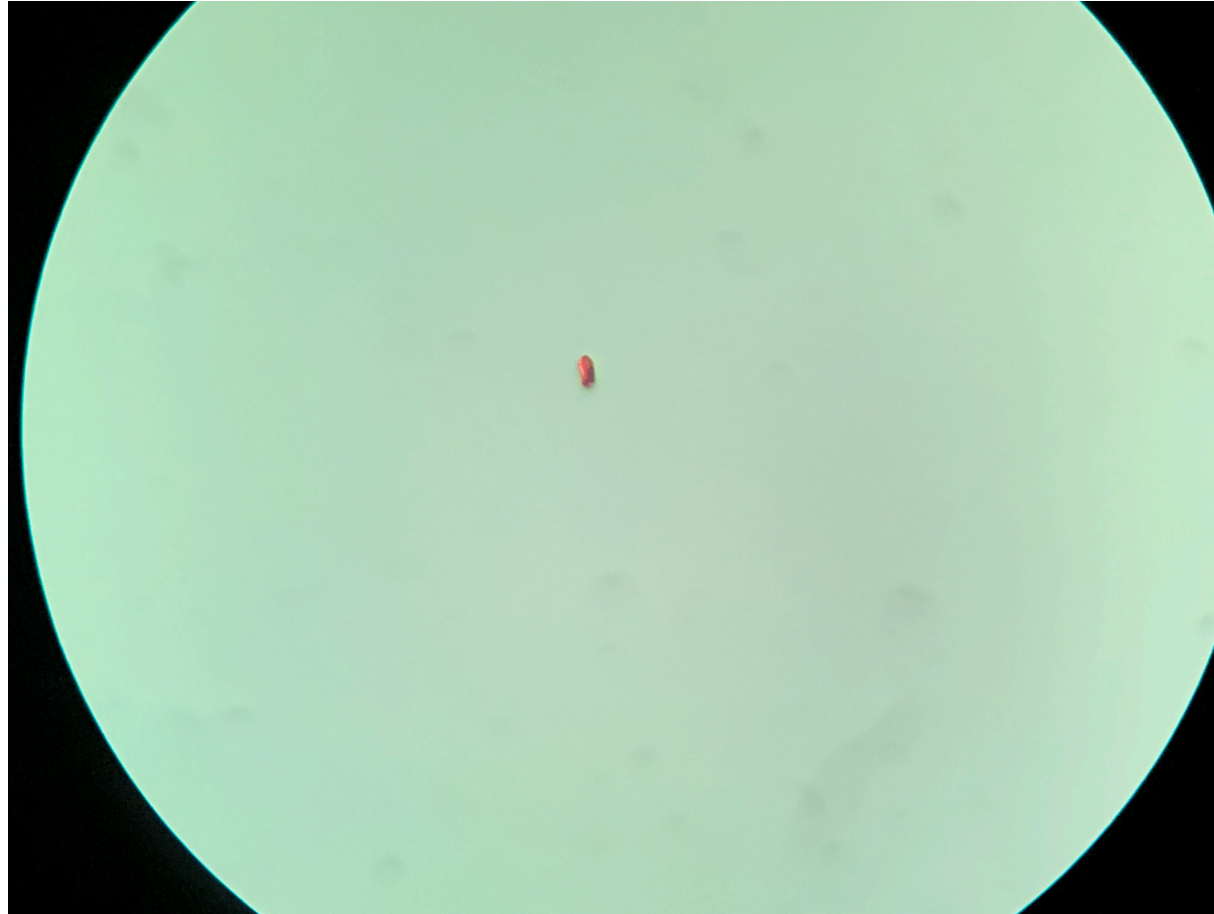
Full report at  
LIGO-E1500140



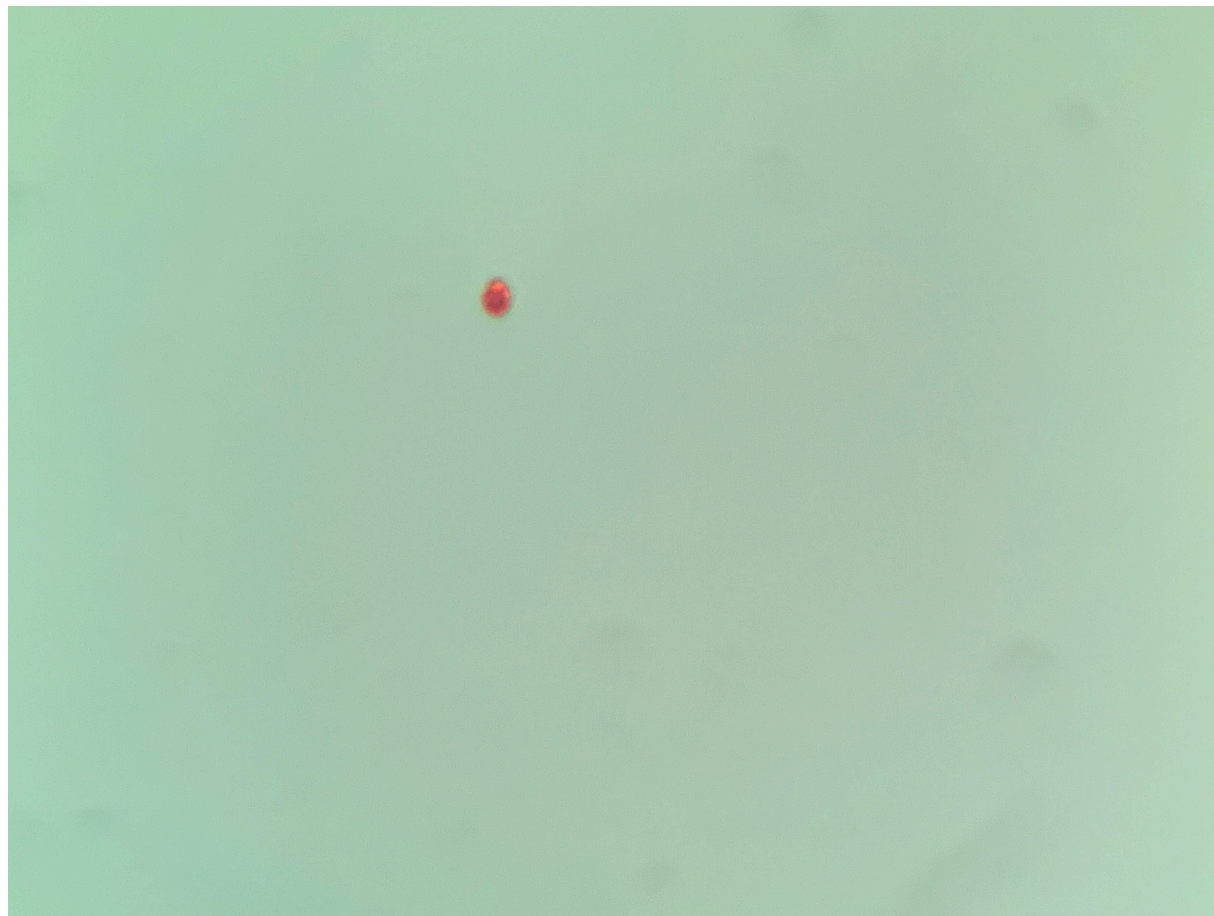
# ETM11 Absorber Catalog

No	Scan	Mea. X (mm)	Mea. Y (mm)	Micro. X (mm)	Micro. Y (mm)	X-Step	Y-Step	Signal (V)	Absorption (ppm, 0.3 mm beam)	Max. absorption (ppm, 60 um beam)	Microscope 50x Measurement (divisions)	Microscope Final dimension using calibration of 2μm/divison with 50x objective (μm)	Optic X (mm) from center	Optic Y (mm) from center
ETM11a	62519	191.663	76.99	-179.052	83.623	-151	-110	1.71E-05	97	13300	5 x 2	10 x 4	-45	33
ETM11b1	62519	195.513	80.591	-175.203	87.225	-138	-98	5.00E-05	285	38400	4	8	-41	29
ETM11b2				3	6									
ETM11c	62519	200.832	101.29	-169.883	107.924	-123	-29	1.36E-05	77	16500	7 x 3	14 x 6	-36	9
ETM11d	62519	207.971	101.887	-162.745	108.521	-99	-27	1.72E-05	103	2210	9	18	-29	8
ETM11e	62519	189.798	102.786	-180.918	109.419	-157	-24	1.17E-05	67	6020	4 x 2	8 x 4	-47	7
ETM11f	62519	224.352	113.594	-146.364	120.228	-41	12	4.21E-05	254	19800	7 x 5	14 x 10	-13	-4
ETM11g	62519	261.547	133.091	-109.169	139.724	81	77	9.85E-06	57	8760	4 x 3	8 x 6	25	-23

Point a  $\sim 10 \times 4 \mu\text{m}$



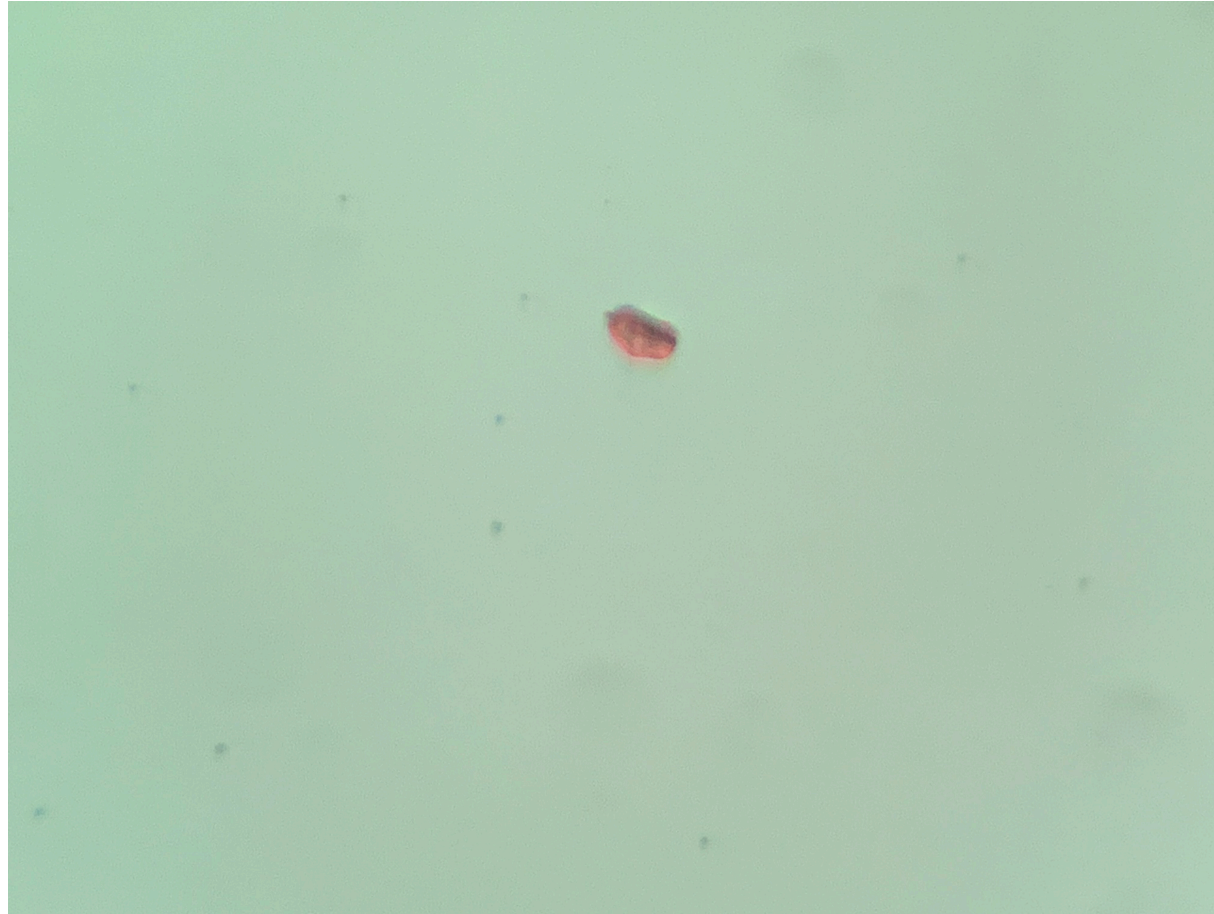
Point b1  $\sim 8 \mu\text{m}$



Point b2  $\sim 6 \mu\text{m}$



Point c  $\sim 14 \times 6 \mu\text{m}$



Point d  $\sim 18 \mu\text{m}$  across base





Point e  $\sim 8 \times 4 \mu\text{m}$



Point f  $\sim 14 \times 10 \mu\text{m}$



Point g  $\sim 8 \times 6 \mu\text{m}$

