

Exceptional service in the national interest



Ride-along data LOS 130, 170 & LOS330 shots z3139, 3140 and 3141

G. P. Loisel, org. 1683

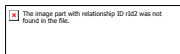
Requesting unlimited release to:

West Virginia University collaborators:

Mark Koepke (professor, advisor), Ted Lane (graduate student), Pawel Kozlowski (PostDoc)

University of Nevada, Reno:

Roberto Mancini (professor, advisor), Dan Mayes (graduate student)



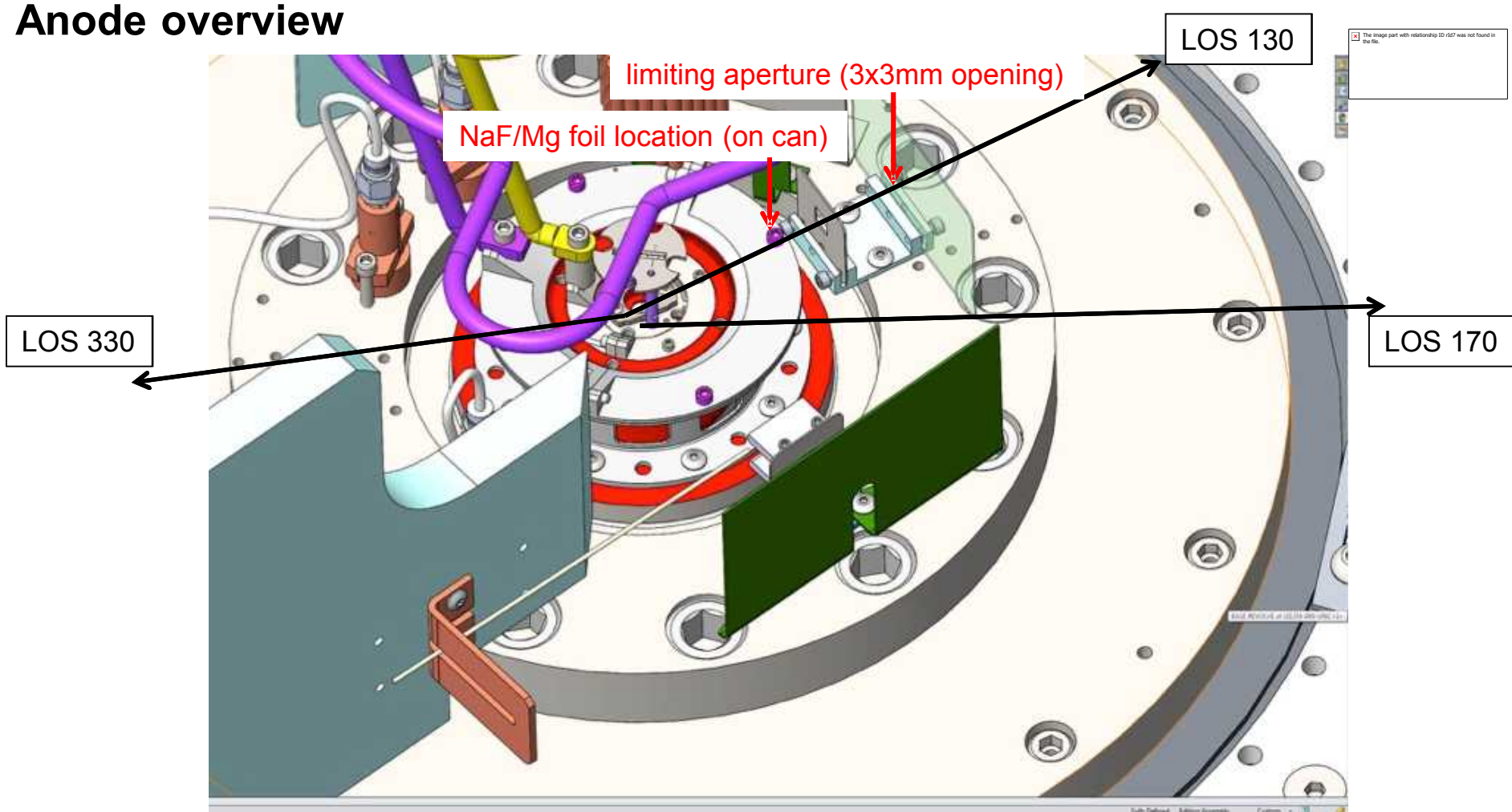
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- Each instrument records the x-ray emission from the Z-pinch dynamic hohlraum (ZPDH):
- LOS 130 TIXTLs instruments record the absorption of the pinch backlighter through an expanding NaF/Mg foil.
 - LOS 170 MLM instruments record monochromatic images at 276 and 528 eV energies near and before ZPDH stagnation time.
 - LOS 330 TREX 6A & B: recoded time resolved absorption spectra from a radiatively heated Ne gas.

Effective shot sequence:

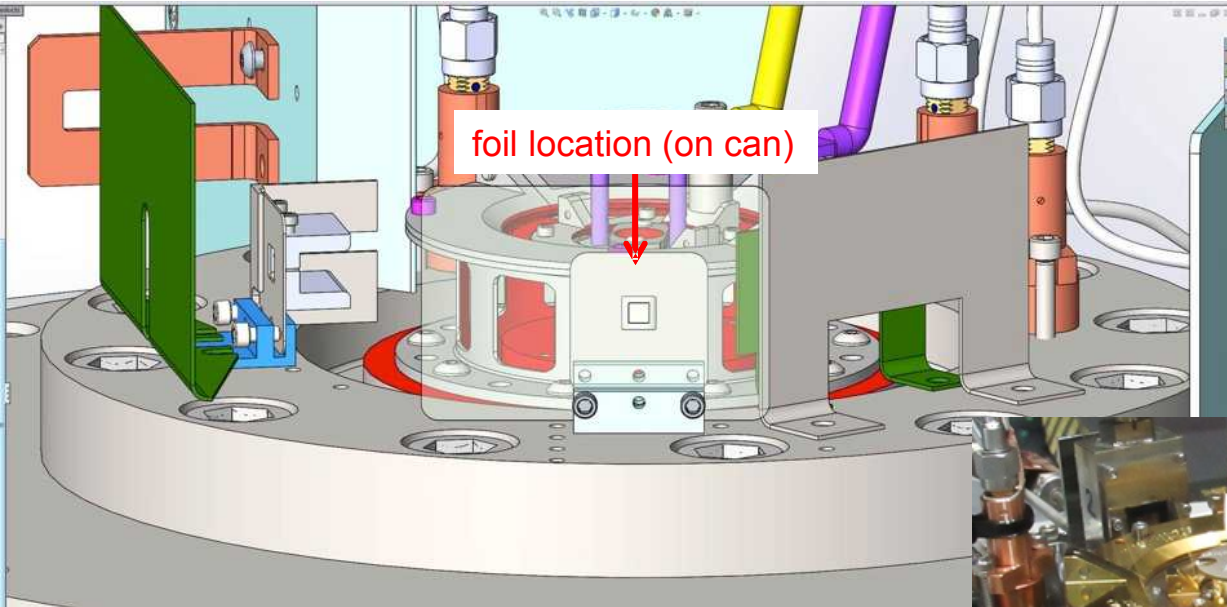
	z3139 (A0623D)	z3140 (A0623E)	z3141 (A0593E)
LOS 130 tixtls RL,RR KAP crystal, spectral range: 6-18Å	Not fielded	Not fielded	NaF/Mg foil 12µm CH tamping placed on can.
LOS 170 MLM 277eV and 528eV color imaging	Z- pinch dynamic hohlraum	Z- pinch dynamic hohlraum	Z- pinch dynamic hohlraum
LOS 330 TREX – elliptical KAP spectral range: 7-14Å Time resolved spectra	Ne gas cell 7.5 torr pressure	no gas, null shot	no gas, null shot

Anode overview



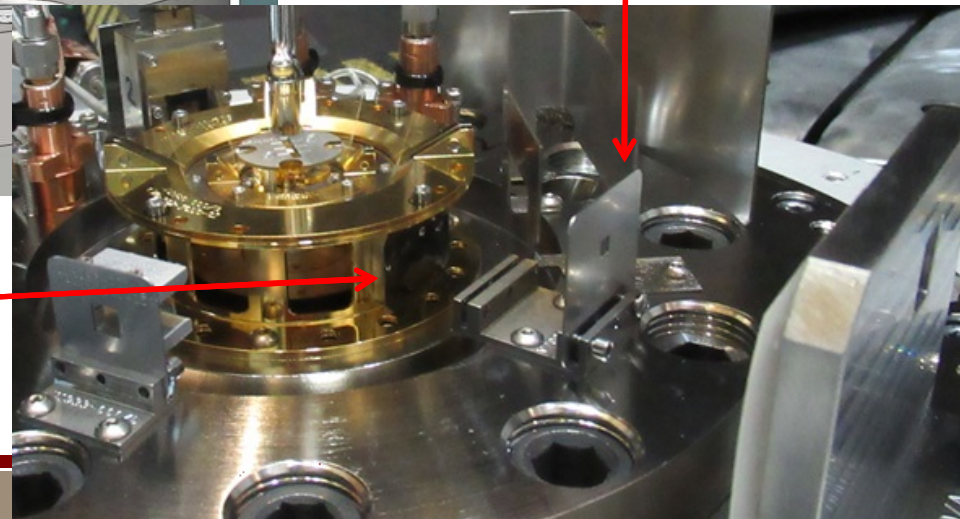
LOS 130, 12° LOS diagnostic view

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Limiting aperture

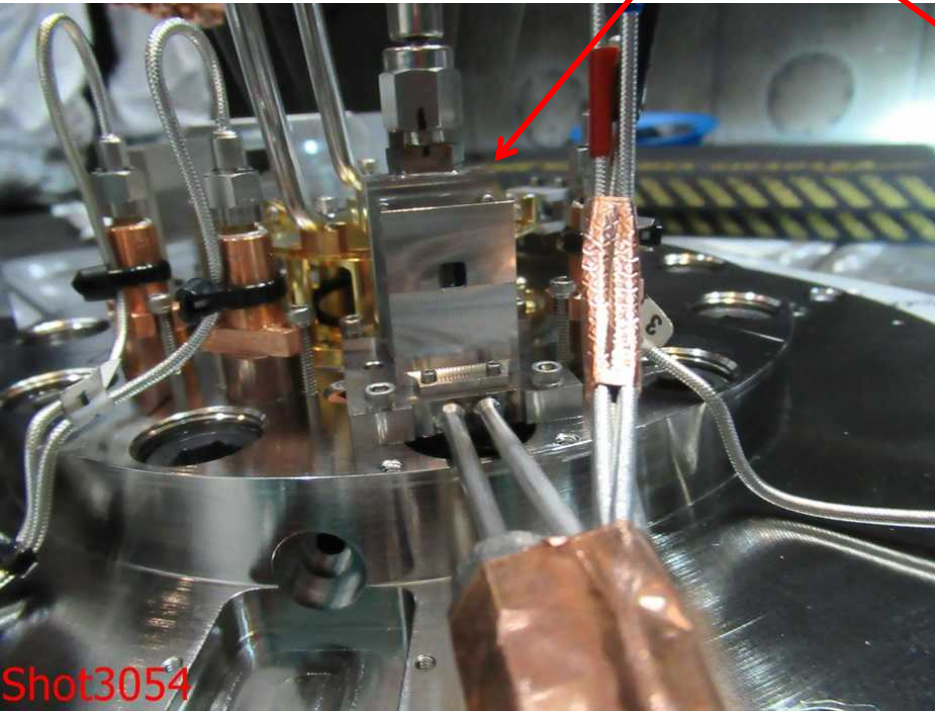
NaF/Mg foil on can
before shot



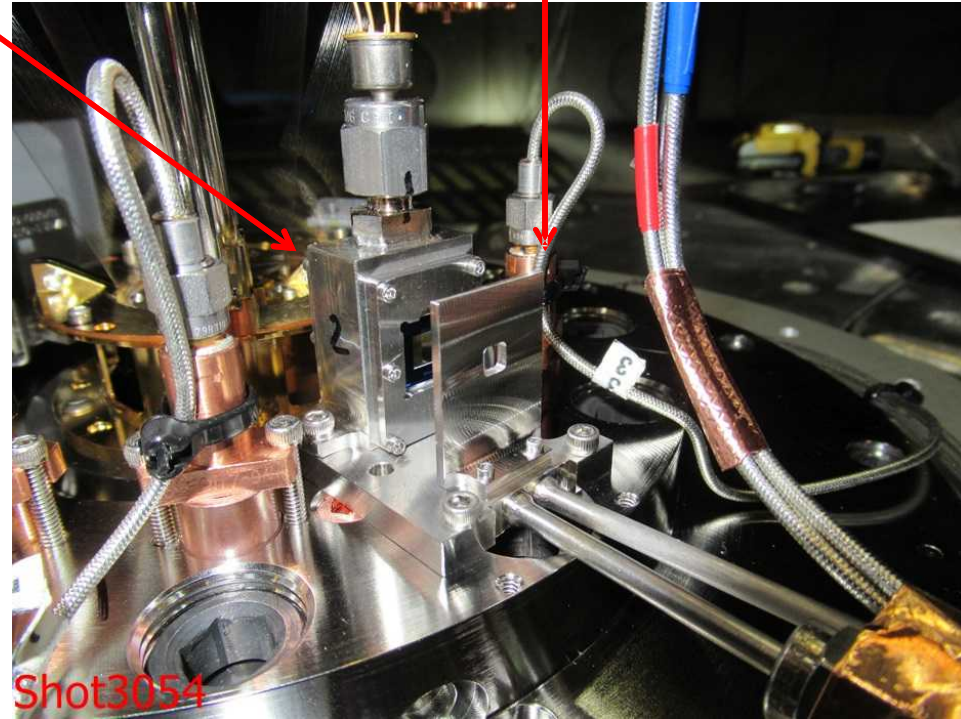
LOS 330, Ne gas cell shown on load

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gas cell



Limiting aperture



Z3139 – LOS170

MLM R

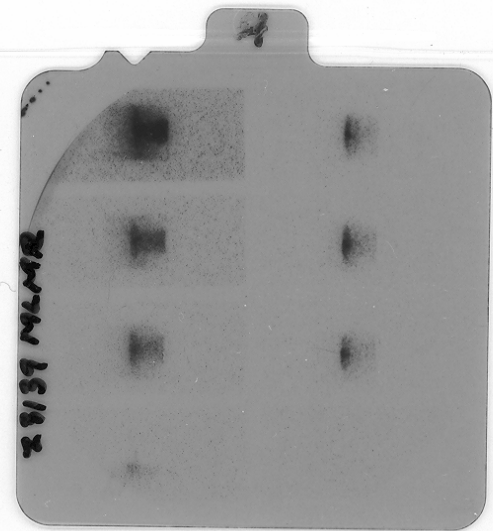
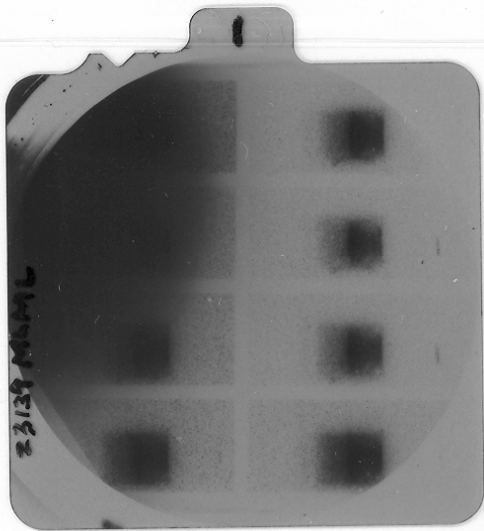
MLM L

MLM C

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DATE:

ASSIGNMENT: Z3139 1



z3139 – LOS330

TREX6A – TREX6B

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problem with detector, data fogged



Z3140 – LOS170

MLM R

MLM L

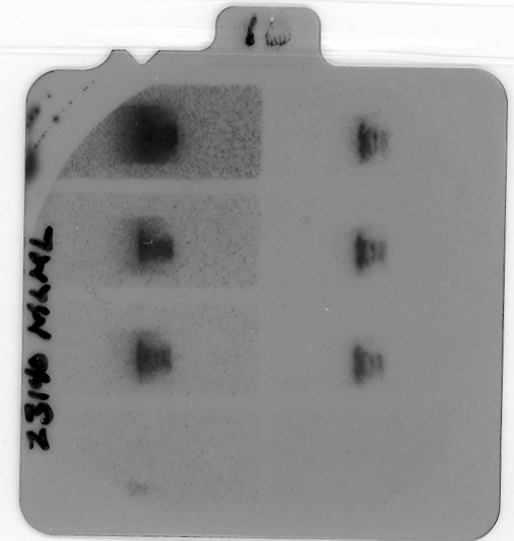
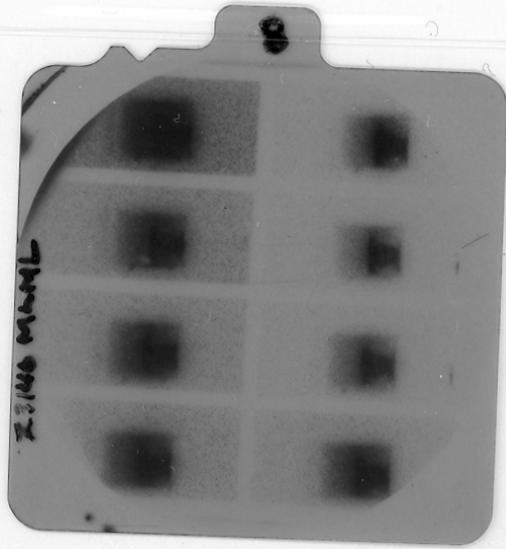
MLM C

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ORIGINAL PRESERVES

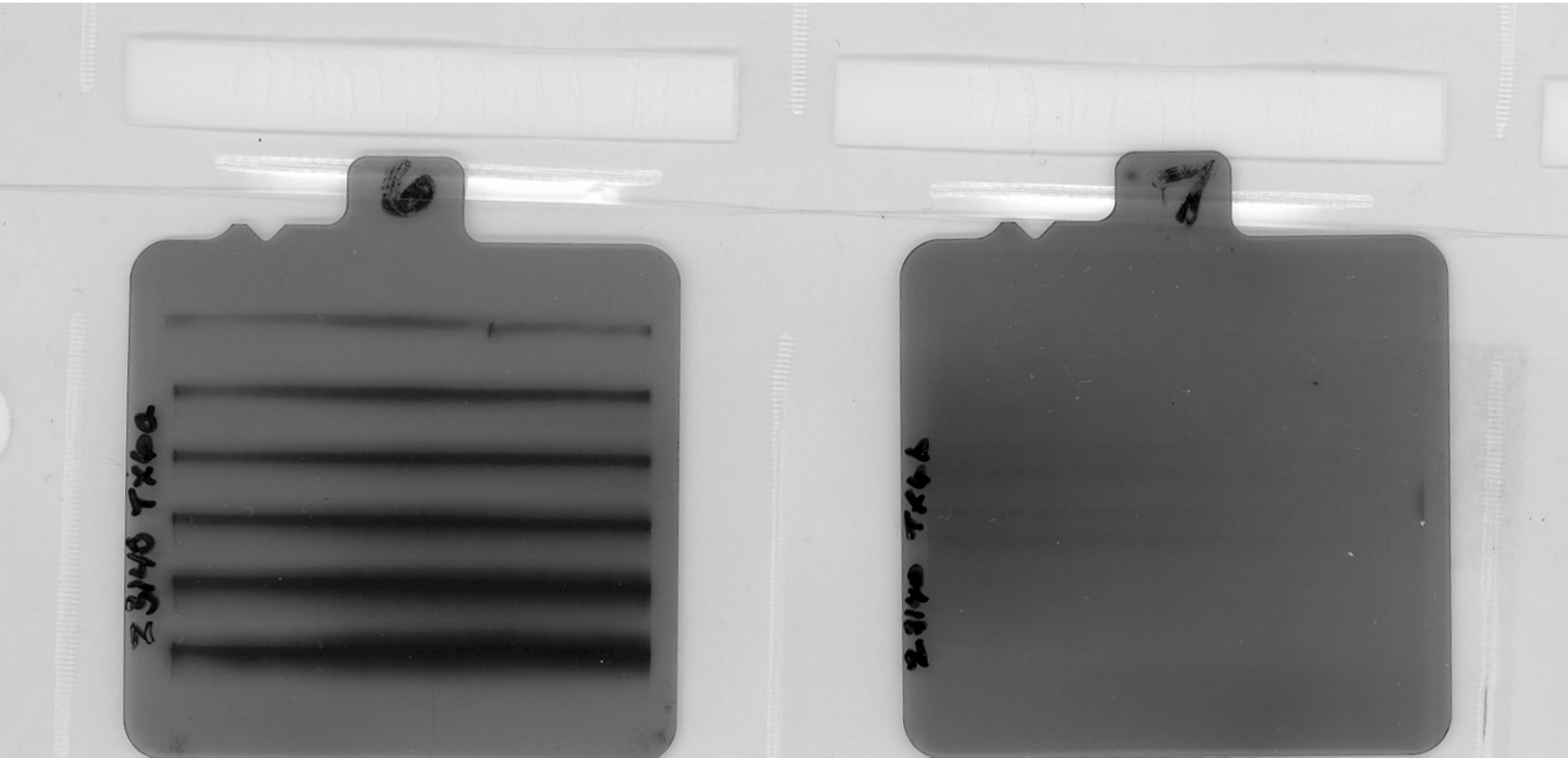
DATE:

ASSIGNMENT: Z3140 MLM and T Rex



z3140 – LOS330
TREX6A – TREX6B

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Z3141 – LOS130

TIXTL RL

TIXTL RR

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ASSIGNMENT:

Z 3141

TIXTL

FILE NO:

TIXTL

Z 3141

TIXTL

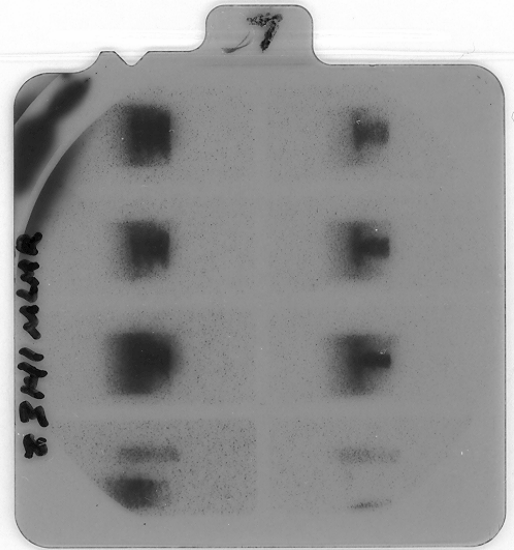
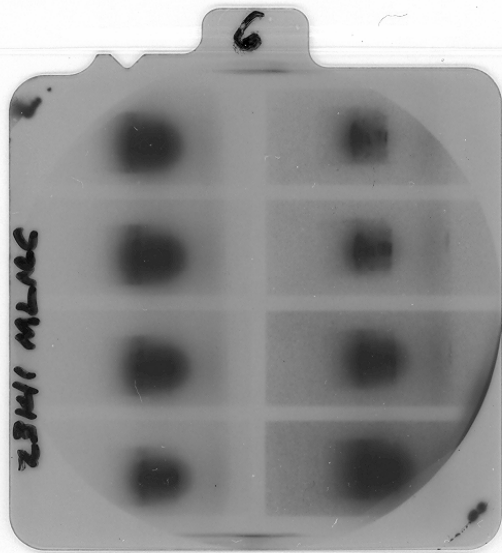
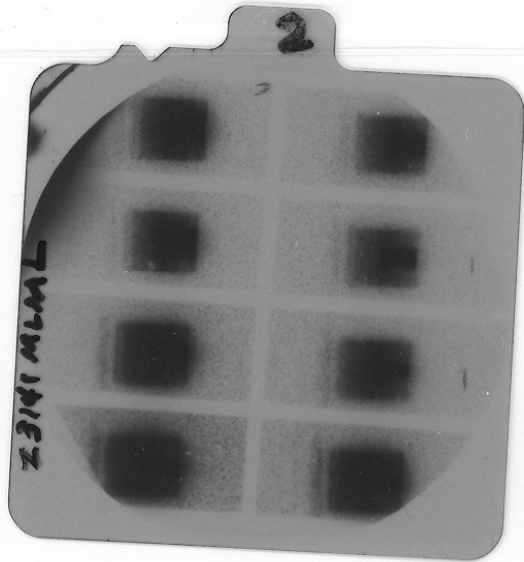
Z 3141

Z3141 – LOS170
MLM R
MLM L
MLM C

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DATE:

ASSIGNMENT:



z3141 – LOS330
TREX6A – TREX6B

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