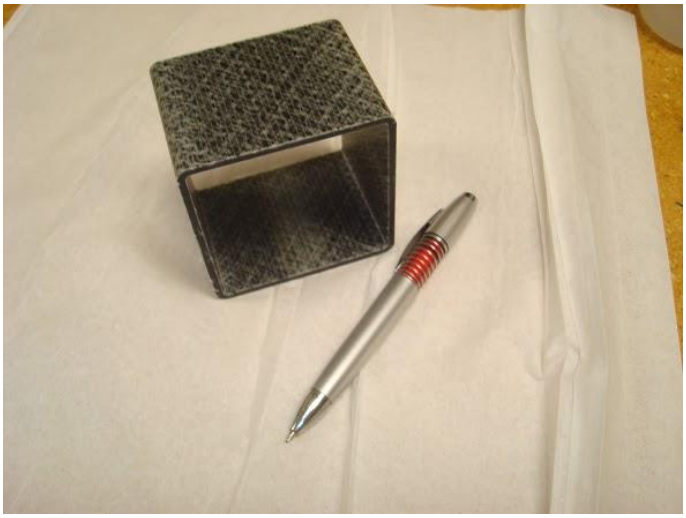
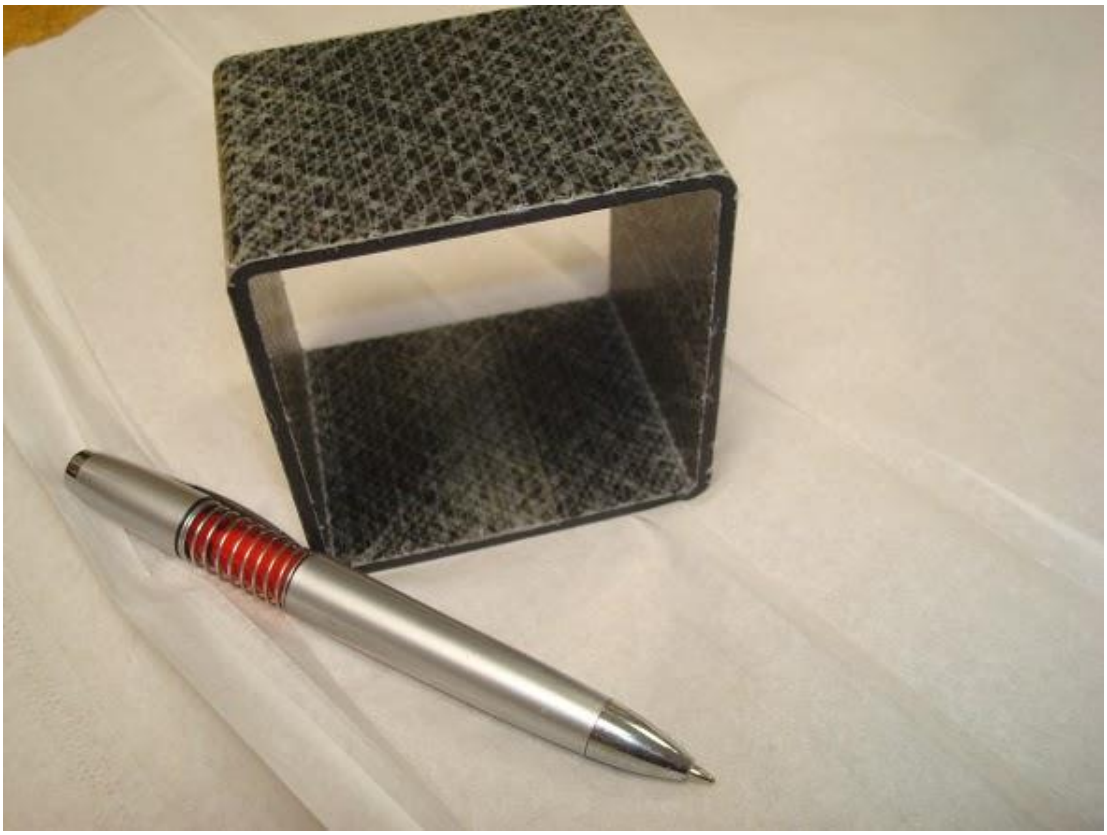
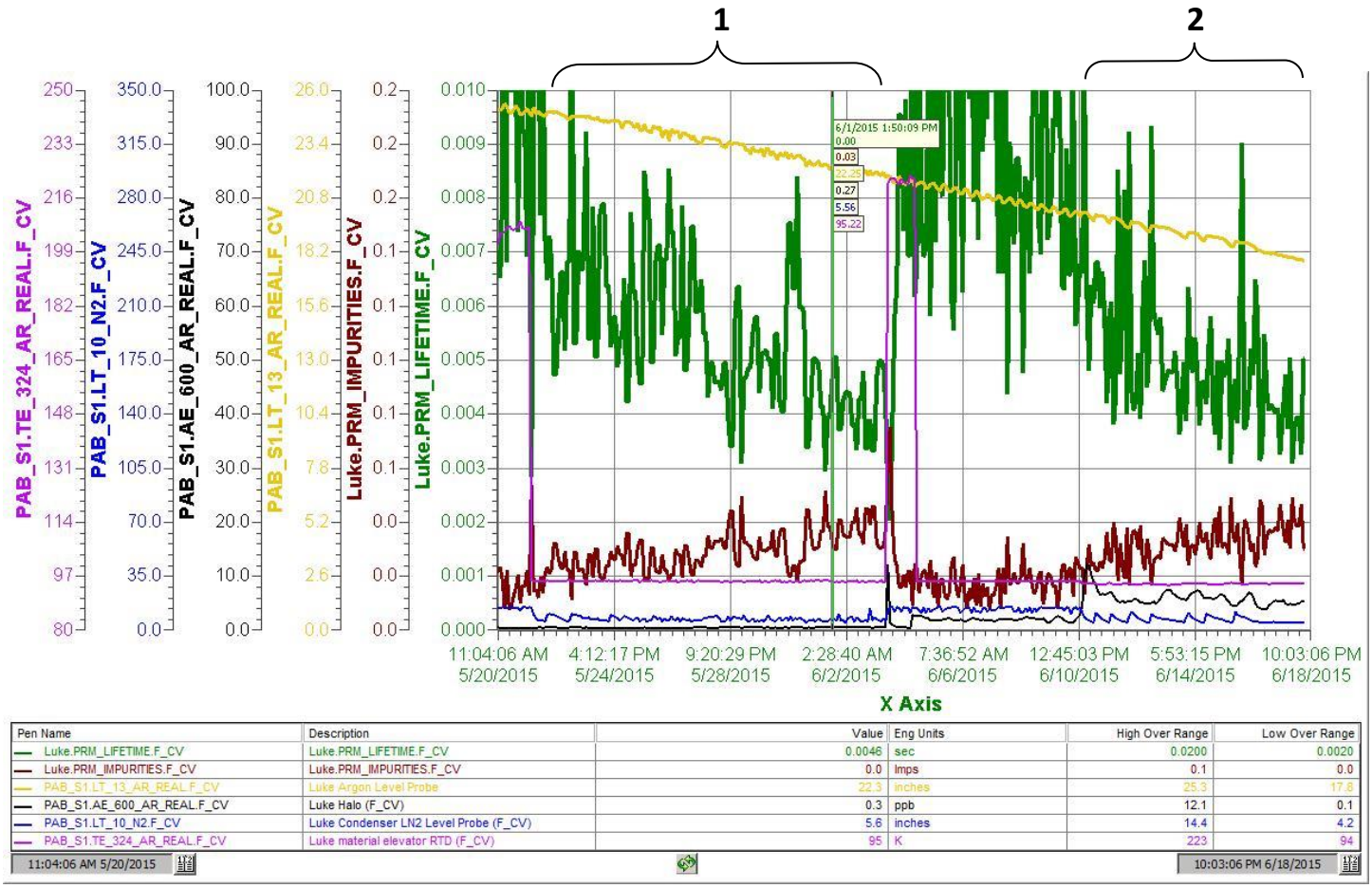
Carbon Fiber Beam Test 5/20/2015 – 6/18/2015

PAB Materials Test System	
Date of Receipt	6/18/2015 eLog entry # 5105
Sample Name/Description	piece of carbon fiber hollow box cross section beam
Sample	
Composition:	carbon fiber
Picture Location:	data base
Weight:	85.5 g
Dimensions/Area:	75 mm x 75 mm/wall 3 mm, length 60 mm
Source:	Trevor Gamble, University of Sheffield,UK
Preparation:	cleaned with alcohol
Submerging in LAr or LH2	x
Time in the airlock(hrs)	
Purge:	x
Vacuum:	25 hours
Liquid Test	
Start Time/Date, End Time/Date :	5/21/2015 5:52 PM, 6/3/2015 2:20 PM
PrM run # :	24247
Condenser state:	on
Filter state:	off
H2O reading:	no water reading
Liquid level:	25 inches
Temperature:	95 K
Lifetime:	slowly decreased from 7-10 ms to 3-5 ms.
Zero Test	
Start Time/Date, End Time/Date :	6/10/2015, 6/18/2015
PrM run # :	24444
Condenser state:	on
Filter state/settings:	off
H20 reading:	increased to 6 ppb
Temperature:	95 K
Lifetime:	slowly decreased, stayed in 3-5 ms range for the last few days
Results/comments	no difference in results for sample in cage / empty cage tests





1. Liquid test.
2. Zero test.



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.0046	sec	0.0200	0.0020
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0	lmps	0.1	0.0
PAB_S1.LT_13_AR_REAL.F_CV	Luke Argon Level Probe	22.3	inches	25.3	17.8
PAB_S1.AE_600_AR_REAL.F_CV	Luke Halo (F_CV)	0.3	ppb	12.1	0.1
PAB_S1.LT_10_N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	5.6	inches	14.4	4.2
PAB_S1.TE_324_AR_REAL.F_CV	Luke material elevator RTD (F_CV)	95	K	223	94

11:04:06 AM 5/20/2015 — 10:03:06 PM 6/18/2015

Green pen - lifetime

Yellow pen - liquid level

Magenta pen - temperature

Brown pen - impurities

Black pen - water