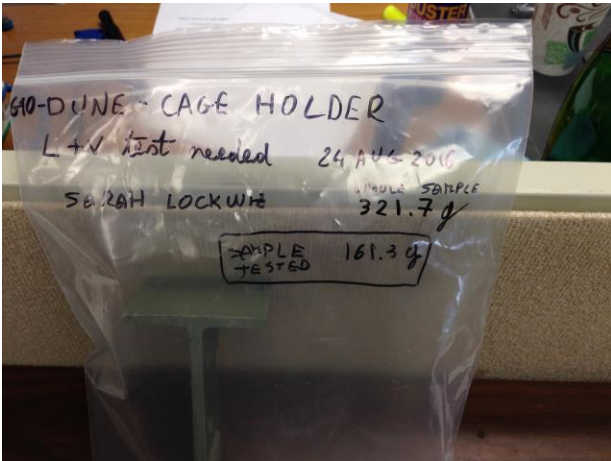
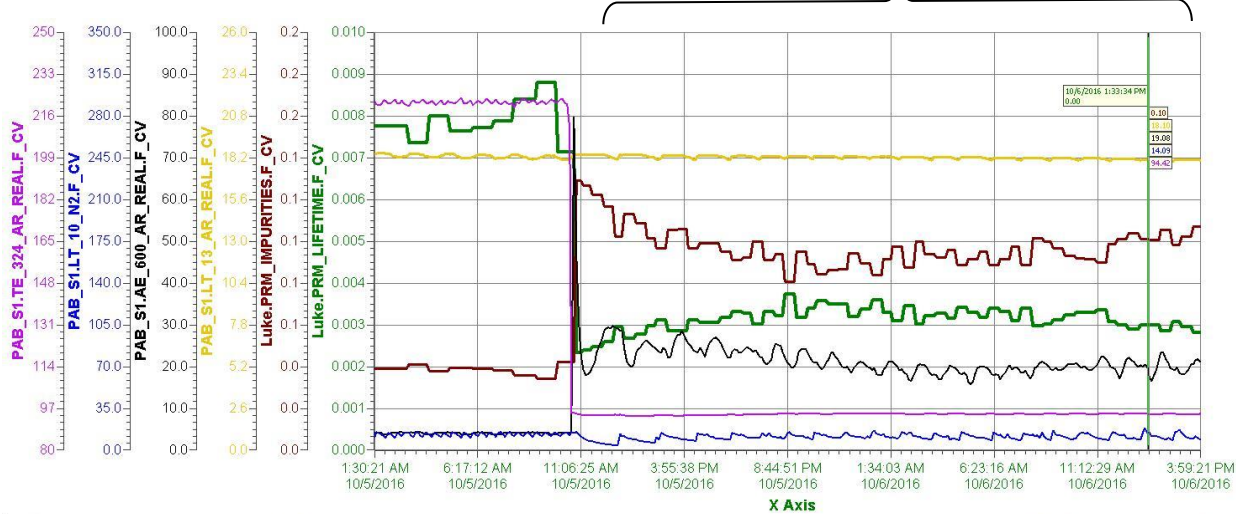


# FRP Cage Holder Test      10/4/2016 – 10/13/2016

<b><i>PAB Materials Test System</i></b>	
<b>Date of Receipt</b>	10/18/16 , logbook entry # 5424
<b>Sample Name/Description</b>	FRP Cage Holder for Dune
<b>Sample</b>	
<b>Composition:</b>	FRP
<b>Picture Location:</b>	data base
<b>Weight:</b>	159 g
<b>Dimensions/Area:</b>	3x6x1/4 inches app.2 inches long
<b>Source:</b>	Sarah Lockwitz
<b>Preparation:</b>	dry clean
<b>Submerging in LN2</b>	x
<b>Time in the airlock(hrs)</b>	
<b>Vacuum:</b>	10 min
<b>Purge</b>	23 hours with gas Argon from Luke
<b>Liquid Test</b>	
<b>Start Time/Date, End Time/Date :</b>	10/5/2016 10:43 am, 10/6/2016 4:04 pm
<b>PrM run # :</b>	x
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>H2O reading:</b>	18-20 ppb
<b>Temperature:</b>	95 K
<b>Liquid Level</b>	18.3 - 17.9 inches
<b>Lifetime:</b>	2.8-3.1 ms
<b>VaporTest</b>	
<b>Start Time/Date, End Time/Date :</b>	10/11/2016 3:26 pm, 10/13/2016 10:20 am
<b>PrM run # :</b>	x
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>H2O reading:</b>	160 ppb
<b>Temperature:</b>	228 K
<b>Liquid Level</b>	17.5-16.9 inches
<b>Lifetime:</b>	0.7 ms

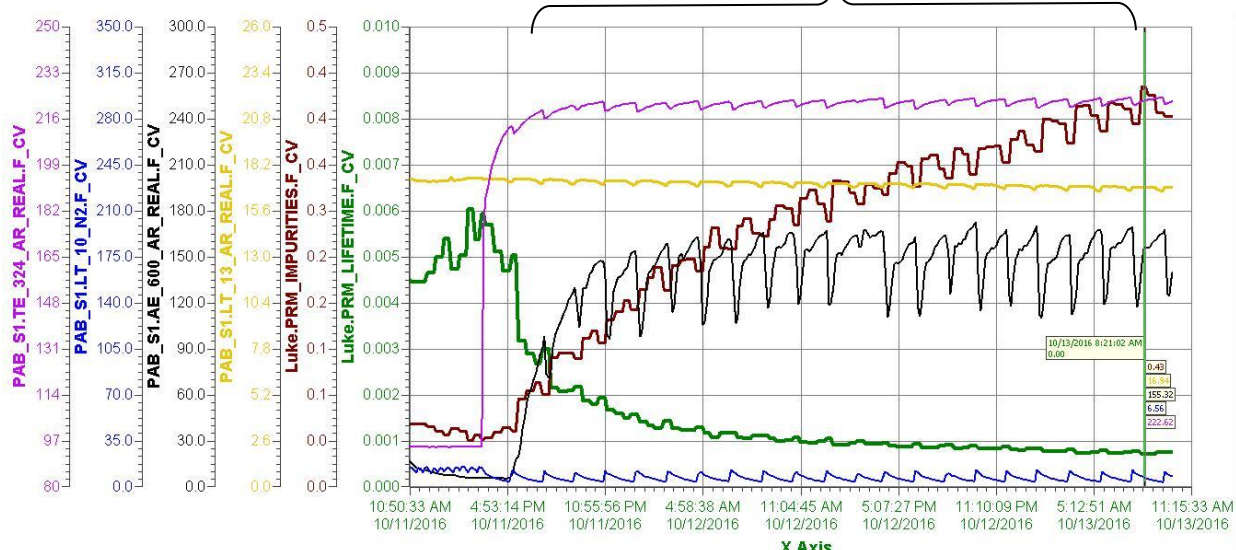


### Liquid test



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.0030	sec	0.0088	0.0023
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.1	imps	0.1	0.0
PAB_S1.LT_13.AR_REALF_CV	Luke Argon Level Probe	16.1	inches	16.5	15.7
PAB_S1.AE_600.AR_REALF_CV	Luke Halo (F_CV)	19.1	ppb	79.7	3.6
PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	14.1	inches	18.2	3.2
PAB_S1.TE_324.AR_REALF_CV	Luke material elevator RTD (F_CV)	94	K	223	83

### Vapor test



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.0007	sec	0.0060	0.0007
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.4	imps	0.4	0.0
PAB_S1.LT_13.AR_REALF_CV	Luke Argon Level Probe	16.9	inches	17.5	16.7
PAB_S1.AE_600.AR_REALF_CV	Luke Halo (F_CV)	155.3	ppb	172.5	4.9
PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	6.6	inches	14.5	2.9
PAB_S1.TE_324.AR_REALF_CV	Luke material elevator RTD (F_CV)	223	K	224	84

Lifetime – green pen

Impurities – brown pen

Liquid level – yellow pen

Water – black pen

Temperature – magenta pen

