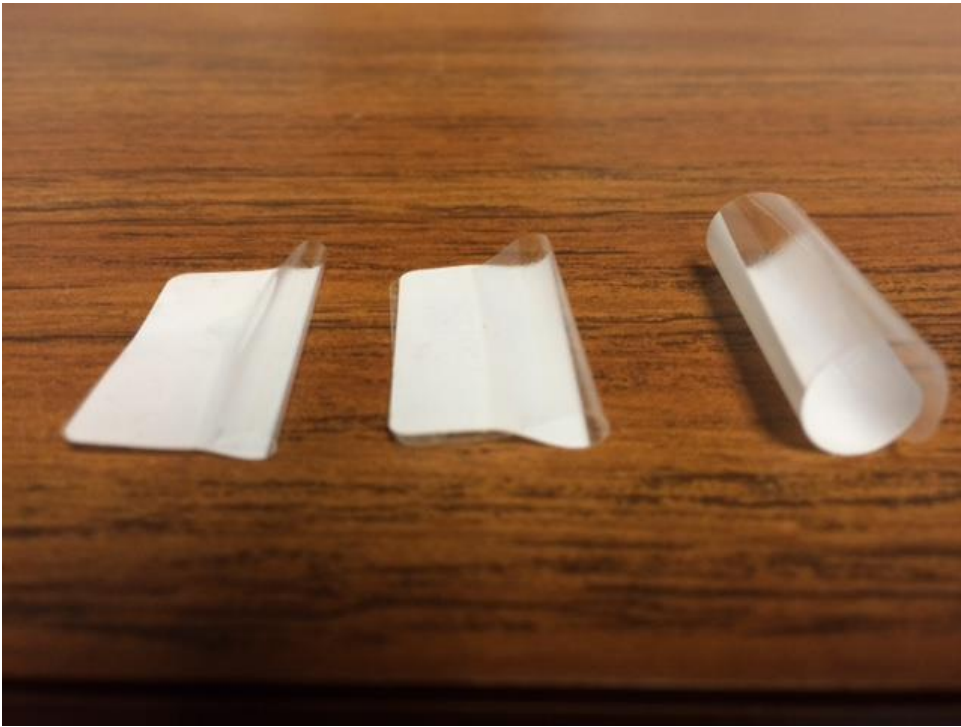
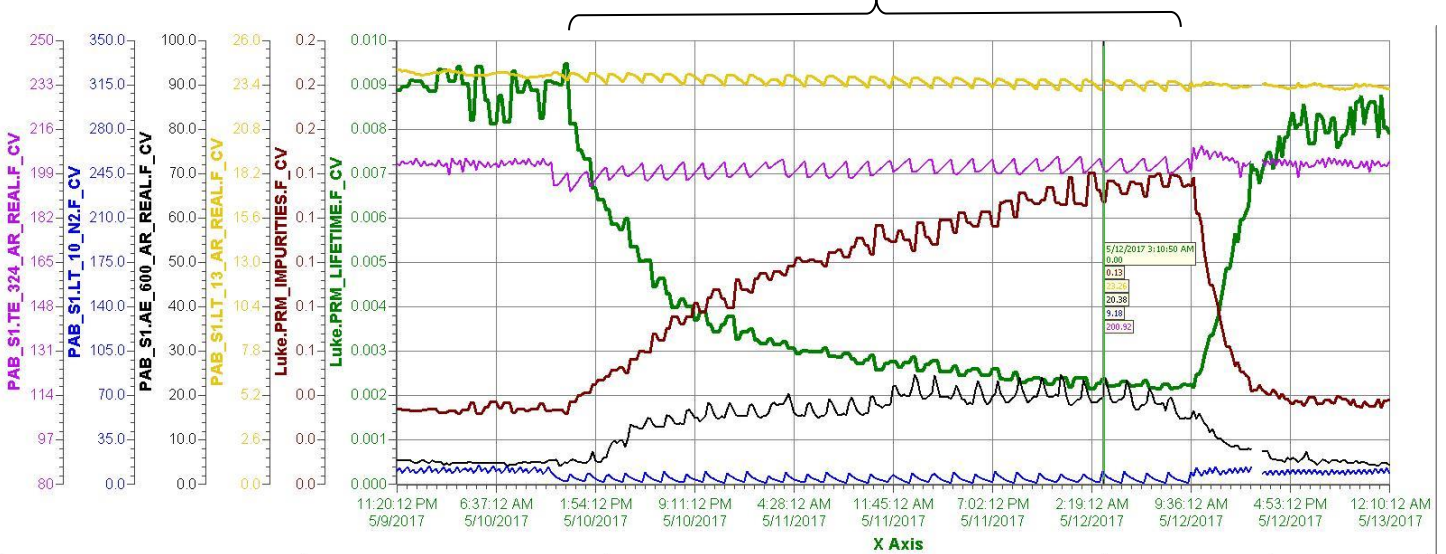


# Cable Labels Test      5/9/2017 – 5/18/2017

<b><i>PAB Materials Test System</i></b>	
<b>Date of Receipt</b>	5/18/17 , logbook entry # 5896
<b>Sample Name/Description</b>	Wrap-Around Wire and Cable Labels #EBA-118NOT <a href="http://www.labtag.com/wrap-around-wire-cable-labels-1-x-1-25-eba-118not/">www.labtag.com/wrap-around-wire-cable-labels-1-x-1-25-eba-118not/</a>
<b>Sample</b>	
<b>Composition:</b>	
<b>Picture Location:</b>	data base
<b>Weight:</b>	very light, less than 0.05 g one label
<b>Dimensions/Area:</b>	20 labels , each 1 x 1.25 inches
<b>Source:</b>	Kenneth Sexton
<b>Preparation:</b>	labels were peeled off their backing, 10 were rolled into a hollow tube and 10 were fold back onto themselves. The SS wire was threaded through the loops to secure labels in the cage
<b>Submerging in LAr</b>	no damage after 24 h
<b>Time in the airlock(hrs)</b>	
<b>Vacuum:</b>	20 min
<b>Purge</b>	24 hours with gas Argon from Luke
<b>Room Temperature Test</b>	
<b>Start Time/Date, End Time/Date :</b>	5/10/17 10:40 am, 5/12/17 9:45 am
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>H2O reading:</b>	20 ppb
<b>Temperature:</b>	warm
<b>Liquid Level</b>	23.5 inches
<b>Lifetime:</b>	9 ms before test, 2.7 ms after 29 hours, 2.2 ms after 47 hours
<b>VaporTest</b>	
<b>Start Time/Date, End Time/Date :</b>	5/16/17 3:53 pm, 5/17/17 3:05 pm
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>H2O reading:</b>	8-12 ppb
<b>Temperature:</b>	190 -210 K
<b>Liquid Level</b>	20.7 inches
<b>Lifetime:</b>	6.5 ms before test, 4-4.5 ms after 24 hours
<b>Liquid Test</b>	
<b>Start Time/Date, End Time/Date :</b>	5/17/17 3:40 pm, 5/18/17 3:50 pm
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>H2O reading:</b>	11-15 ppb
<b>Temperature:</b>	92 K
<b>Liquid Level</b>	20.3 inches
<b>Lifetime:</b>	4-4.5 before test, 3.2-4 ms after 24 hours

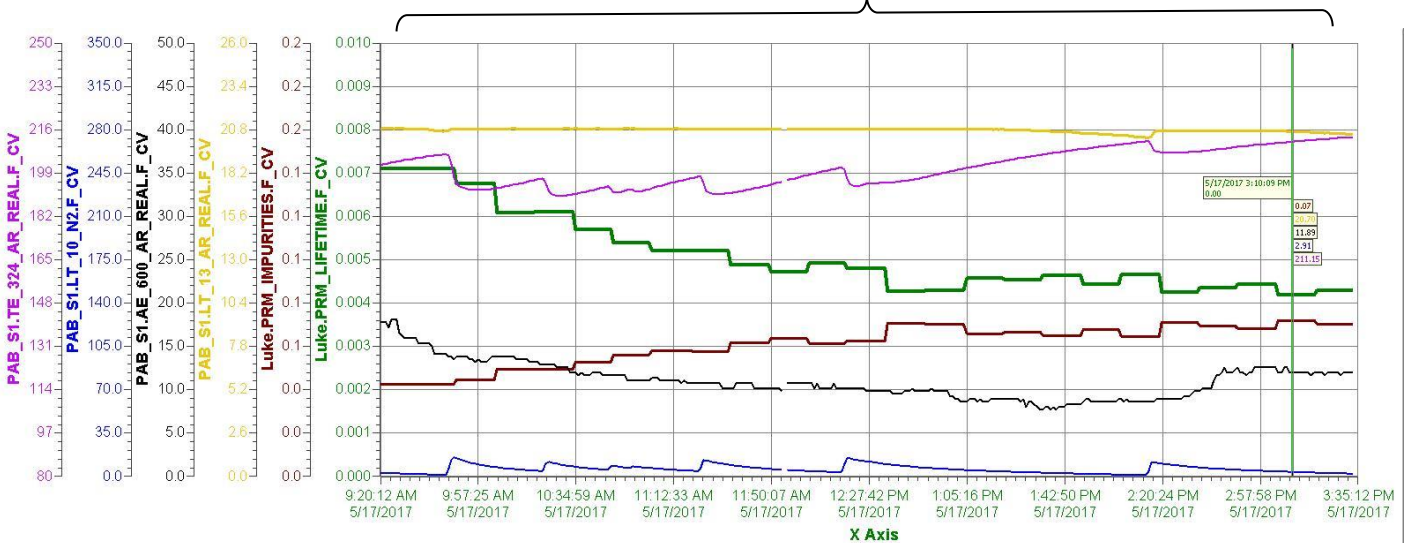


## Room Temperature Test



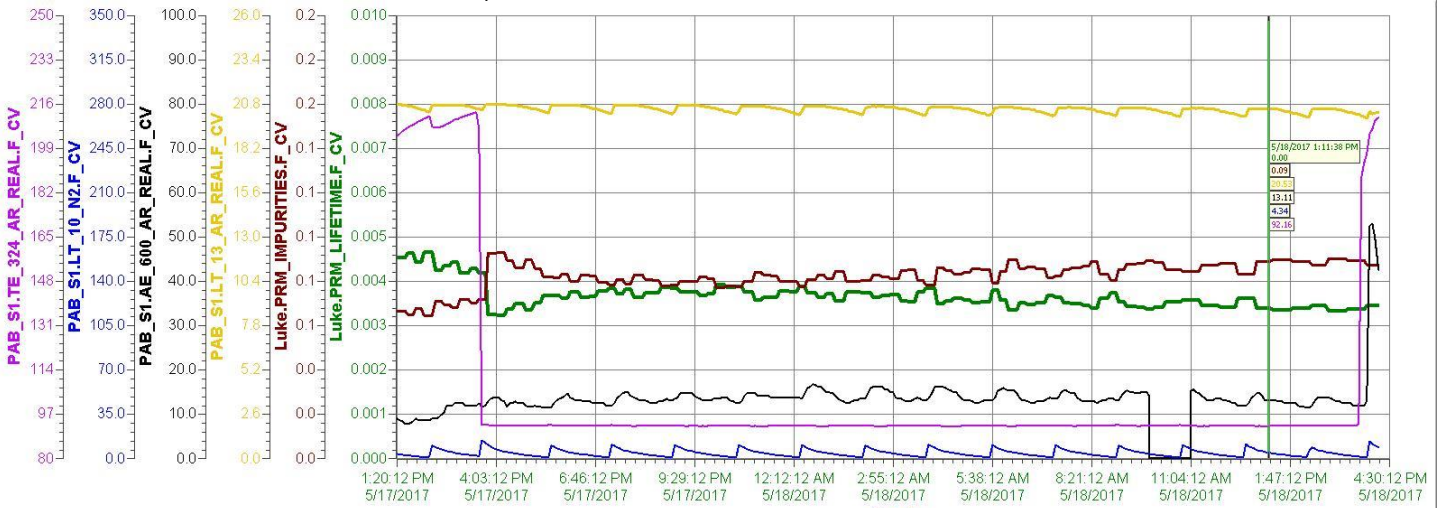
Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.0024	sec	0.0095	0.0021
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.1	Imps	0.1	0.0
PAB_S1.LT_13_AR_REAL.F_CV	Luke Argon Level Probe	23.3	inches	24.3	23.0
PAB_S1.AE_600_AR_REAL.F_CV	Luke Halo (F_CV)	20.4	ppb	24.7	4.0
PAB_S1.LT_10_N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	9.2	inches	14.5	0.6
PAB_S1.TE_324_AR_REAL.F_CV	Luke material elevator RTD (F_CV)	201	K	210	192

## Vapor Test



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.0042	sec	0.0071	0.0042
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.1	Imps	0.1	0.0
PAB_S1.LT_13_AR_REAL.F_CV	Luke Argon Level Probe	20.7	inches	23.9	20.3
PAB_S1.AE_600_AR_REAL.F_CV	Luke Halo (F_CV)	11.9	ppb	18.0	7.6
PAB_S1.LT_10_N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	2.9	inches	14.8	0.4
PAB_S1.TE_324_AR_REAL.F_CV	Luke material elevator RTD (F_CV)	211	K	213	190

# Liquid Test



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.0034	sec	0.0046	0.0032
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.1	imps	0.1	0.1
PAB_S1.LT_13.AR_REAL.F_CV	Luke Argon Level Probe	20.5	inches	20.5	18.5
PAB_S1.AE_600.AR_REAL.F_CV	Luke Halo (F_CV)	13.1	ppb	53.1	-250.0
PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	4.3	inches	14.0	0.4
PAB_S1.TE_324.AR_REAL.F_CV	Luke material elevator RTD (F_CV)	92	K	213	92

Lifetime – green pen

Impurities – brown pen

Liquid level – yellow pen

Water – black pen

Temperature – magenta pen