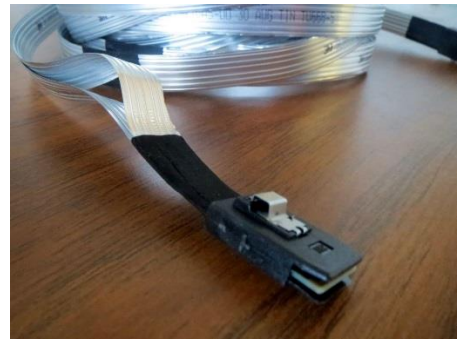
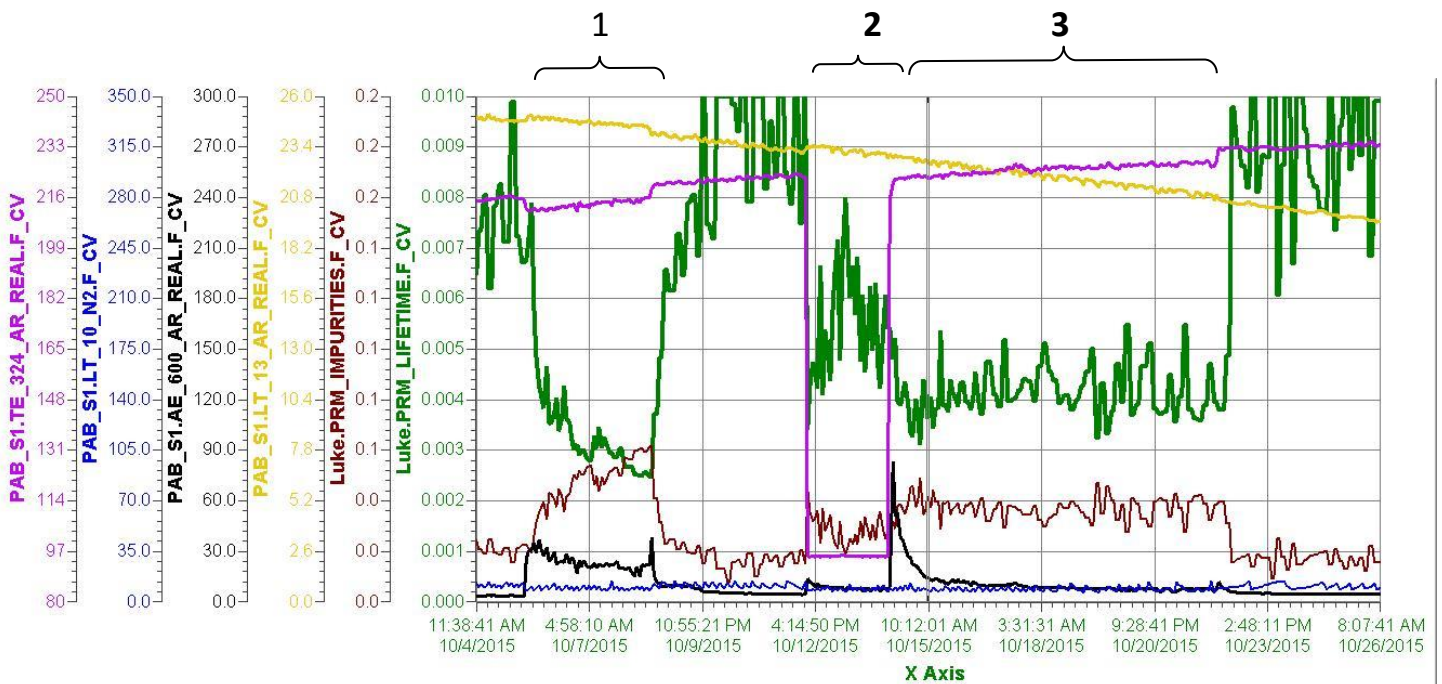


PAB Materials Test System	
Date of Receipt	10/30/15 , logbook entries# 5115 - 5122
Sample Name/Description	3M mini-SAS cable for the SBND experiment at Fermilab
Sample	
Composition:	x
Picture Location:	data base
Weight:	180 g
Dimensions/Area:	x
Source:	Hucheng Chen, Bo Yu
Preparation:	no cleaning requested
Submerging in LAr or LH2	x
Time in the airlock(hrs)	test#2 sample in the system already 2 weeks
Purge:	5 h from Luke
Vacuum:	
Room Temperature	
Start Time/Date, End Time/Date :	10/5/2015 3:20 PM, 10/8/2015 5:28 PM
PrM run # :	25580
Condenser state:	on
Filter state:	off
H2O reading:	3 ppb to 35 ppb, then stabilized in 19-25 ppb
Lifetime:	2.5 - 3 ms
Liquid Level	24.5 inches
Liquid Test	
Start Time/Date, End Time/Date :	10/12/2015 11:47 AM 10/14/2015 11:04 AM
PrM run # :	25668
Condenser state:	on
Filter state/settings:	off
H2O reading:	6-9 ppb
Temperature:	95 K
Liquid Level	23.3 inches
Lifetime:	4-6.5 ms
VaporTest	
Start Time/Date, End Time/Date :	10/14/2015 11:04 AM, 10/22/2015 10:00 AM
PrM run # :	25715
Condenser state:	on
Filter state/settings:	off
H2O reading:	6-10 ppb
Temperature:	222-228 K
Liquid Level	22.9 inches
Lifetime:	3.5-5 ms



3M mini-SAS Cable Test #2 10/4/2015 – 10/21/2015

1. Room temperature test #2
2. Liquid test #2
3. Vapor test #2



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.0036	sec	0.0200	0.0025
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0	imps	0.1	0.0
PAB_S1.LT_13.AR_REAL.F_CV	Luke Argon Level Probe	22.6	inches	25.1	19.5
PAB_S1.AE_600.AR_REAL.F_CV	Luke Halo (F_CV)	13.7	ppb	83.0	3.3
PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	7.3	inches	14.3	5.9
PAB_S1.TE_324.AR_REAL.F_CV	Luke material elevator RTD (F_CV)	222	K	235	95

Lifetime – green pen

Impurities – brown pen

Liquid level – yellow pen

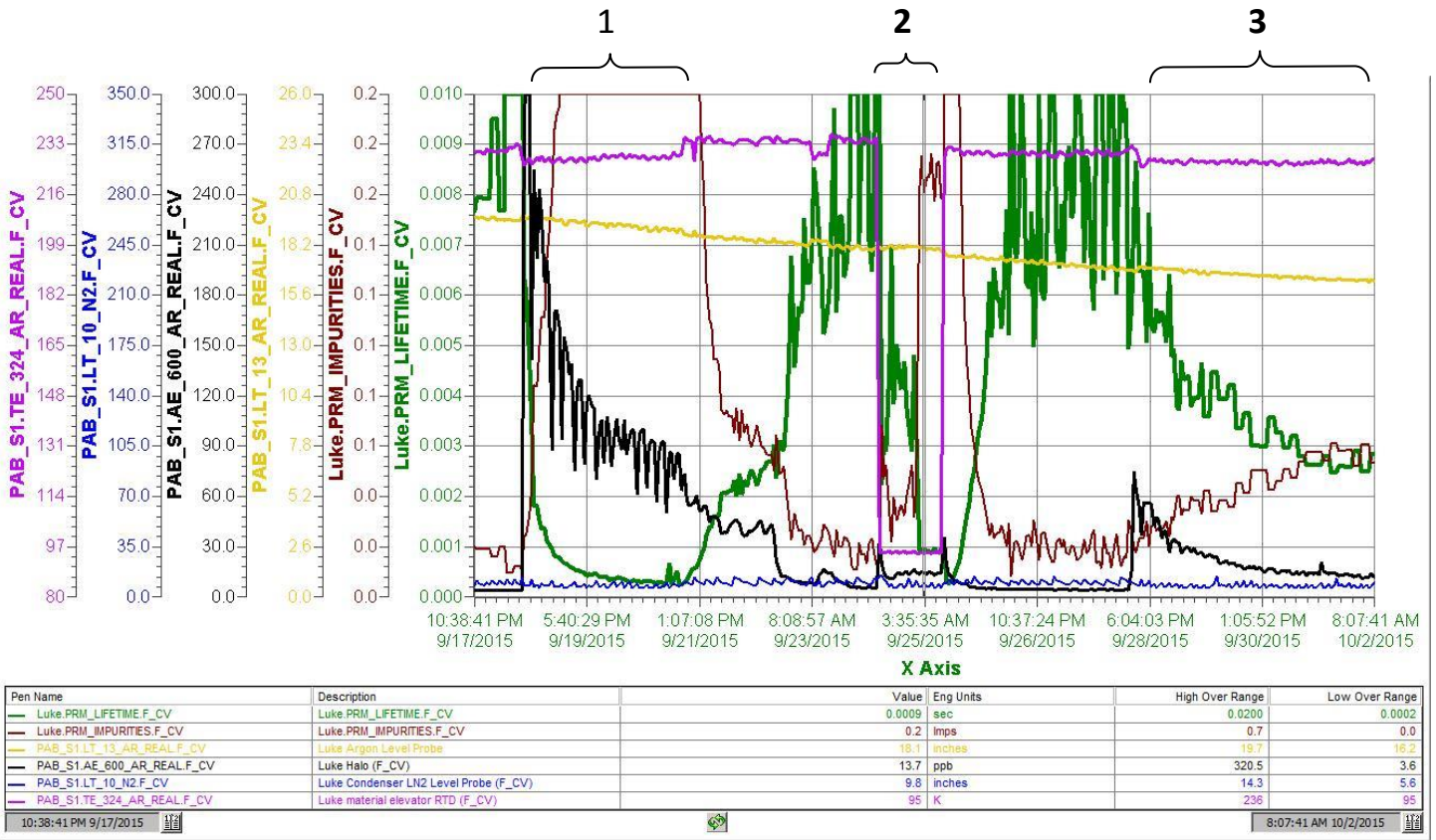
Water – black pen

Temperature – magenta pen

3M mini-SAS Cable Test #1 9/18/2015 – 10/2/2015

Test #1 (below) - the system had various problems - it was the reason we decided to add more liquid and repeat the whole procedure (test#2)

1. Room temperature test #1
2. Liquid test #1
3. Vapor test #1



Lifetime – green pen

Impurities – brown pen

Liquid level – yellow pen

Water – black pen

Temperature – magenta pen