

"Pinpoint" Colormetric developer, ADP-219

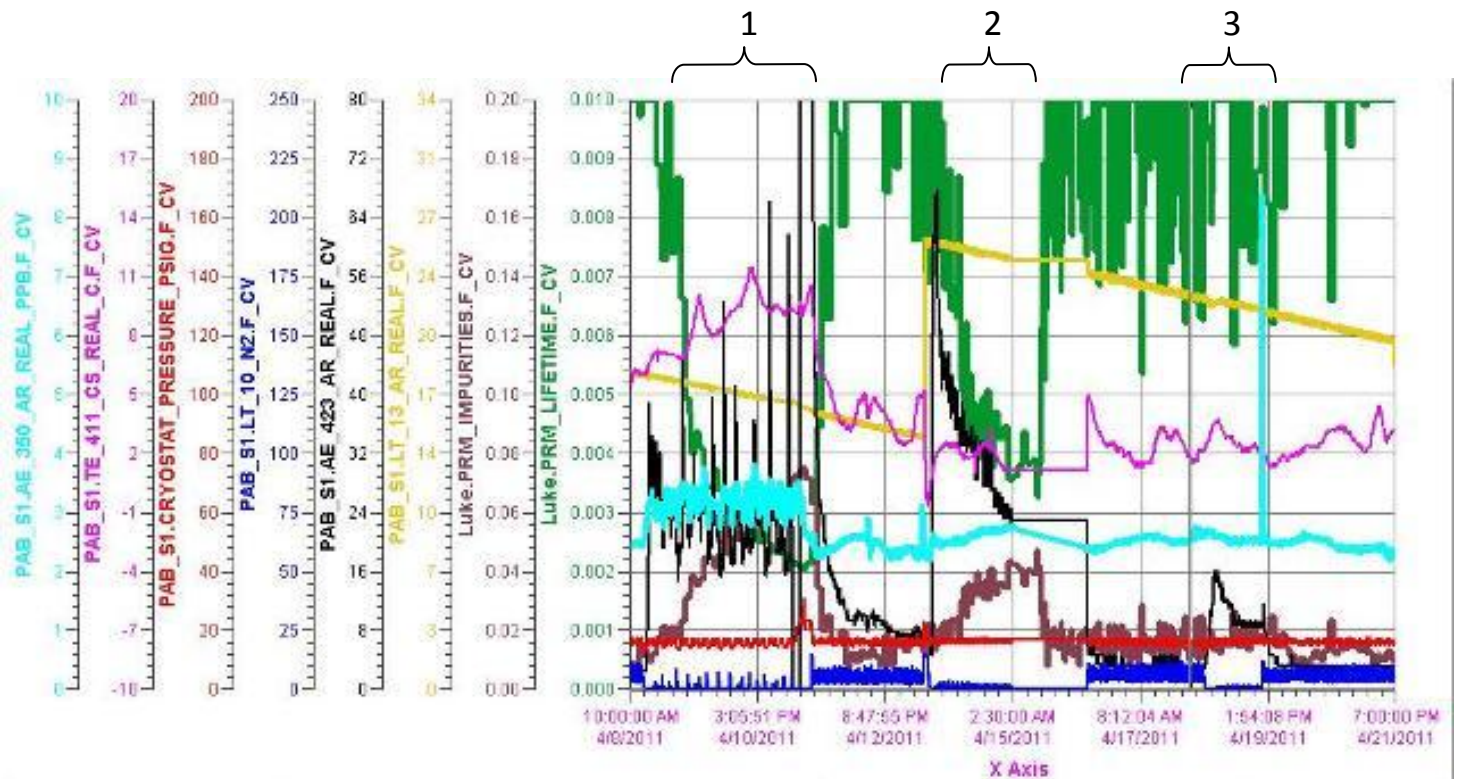
4/13/2011 – 4/21/2011

Date of Receipt	4/27/10 , logbook entry # 1722
Sample Name/Description	"Pinpoint" Colormetric developer, ADP-219 by American gas & chemical co ltd, Aerosol spray
Sample	
Composition:	Trade Secret
Picture Location:	data base
Weight:	x
Dimensions/Area:	powder, look at the picture
Source:	Russ Rucinski
Preparation:	Sprayed inside the stainless cup
Submerging in LAr or LH2	no
Time in the airlock(hrs)	
Purge:	24 h purged from the bottle and 1 h from Luke
Vacuum:	
Room Temperature	
Start Time/Date, End Time/Date :	4/13/2011 3:30 pm, 4/15/2011
PrM run # :	12232
Condenser state:	on
Filter state:	off
O2 reading:	increased by 0.3-0.4 ppb
H2O reading:	increased from 7 to 65 ppb, then stabilized at 32 ppb
Lifetime:	3.5-4 ms
Vapor Test	
Start Time/Date, End Time/Date :	4/18/2011 , 4/21/2011 11:30 am
PrM run # :	12373
Condenser state:	on
Filter state/settings:	off
O2 reading:	no increase
H2O reading:	from 3 to 15.5 ppb, then stayed at 9 ppb
Temperature:	210 K
Lifetime:	>6 ms
Liquid level	22.7 to 21.7 inches
Results/comments	

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1. Zero test.
2. Room temperature test.
3. Vapor test.

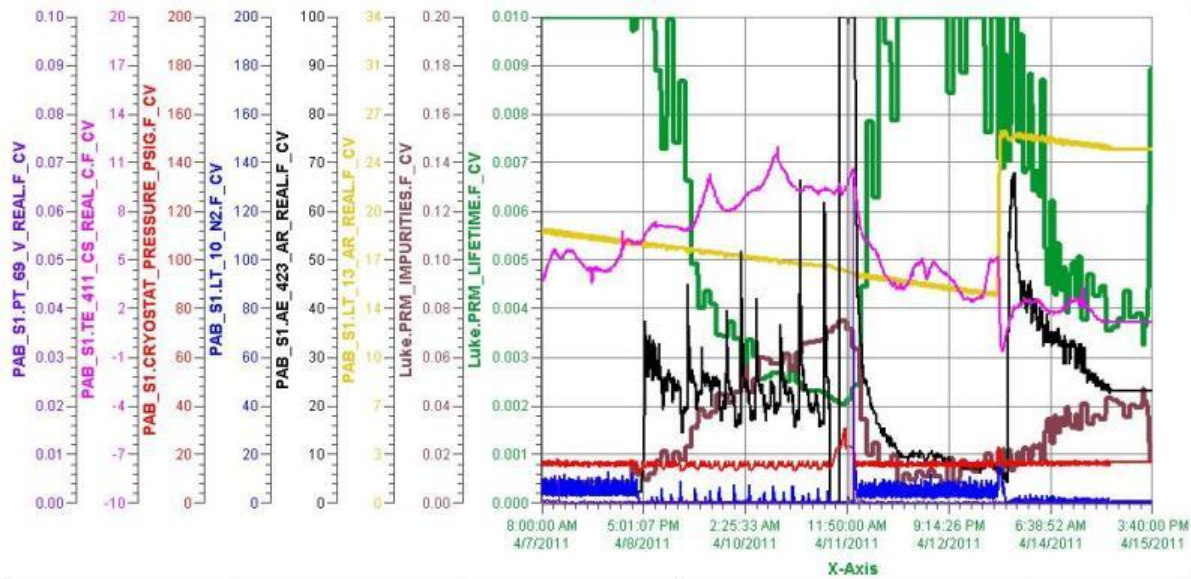
(black line is water, green line is electron lifetime)



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
— Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.01533	sec	0.02000	0.00201
— Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0098	imps	0.0745	0.0075
— PAB_S1_LT_13_AR_REAL...	Luke Argon Level Probe	22.7	inches	26.1	14.4
— PAB_S1_AE_423_AR_REA...	HALO H2O meter (F_CV)	3.0	opb	3,310.4	0.0
— PAB_S1_LT_10_N2_F_CV	Luke Condenser LN2 Level Pro...	3.2	inches	14.4	-0.0
— PAB_S1_CRYOSTAT_PRE...	Luke Vapor Pressure	15.8	psig	30.5	12.5
— PAB_S1_TE_411_CS_R...	TC on Luke top flange (F_...	1.6	C	11.5	-0.7
— PAB_S1_AE_350_AR_REA...	opb version for aldicting (F_CV)	3	opb	6	2

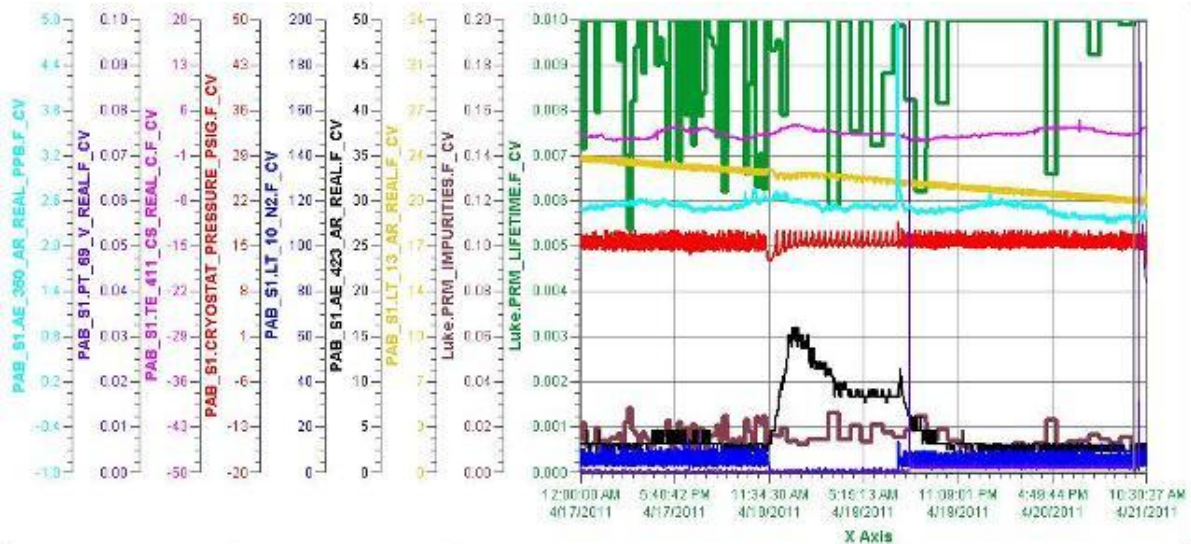
4/8/2011 10:00:00 AM 4/21/2011 7:00:00 PM

Zero test and Room temperature test. (black line is water, green line is electron lifetime)



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME_F_CV	Luke.PRM_LIFETIME_F_CV	0.00212	sec	0.02000	0.00201
Luke.PRM_IMPURITIES_F_CV	Luke.PRM_IMPURITIES_F_CV	0.0707	imps	0.0745	0.0075
PAB_S1_LT_13_AR_REAL	Luke Argon Level Probe	16.2	inches	26.0	14.4
PAB_S1_AE_423_AR_REA...	HALO H2O meter (F_CV)	1,233.3	ppb	3,254.0	0.0
PAB_S1_LT_10_N2_F_CV	Luke Condenser LN2 Level Pro...	-0.0	inches	14.4	-0.0
PAB_S1_CRYOSTAT_PRE...	Luke Vapor Pressure	22.9	psig	30.5	12.5
PAB_S1_TE_411_CS_REA...	TC on Luke top flange (F_CV)	9.8	C	12.0	-0.7
PAB_S1_PT_69_V_REAL_F...	Seal Monitor Vacuum	0.0007	Torr	0.0672	0.0001

Vapor test. (black line is water, green line is electron lifetime)



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME_F...	Luke.PRM_LIFETIME.F_CV	0.01269	sec	0.02000	0.00533
Luke.PRM_IMPURITIES_F...	Luke.PRM_IMPURITIES.F_CV	0.0118	imps	0.0282	0.0075
PAB_S1_LT_13_AR_REAL	Luke Argon Level Probe	29.5	inches	33.0	20.2
PAB_S1_AE_423_AR_REA...	HALO H2O meter (F_CV)	2.3	ppb	18.0	2.3
PAB_S1_LT_10_N2_F_CV	Luke Condenser LN2 Level Pro...	4.6	inches	14.3	-0.0
PAB_S1_CRYOSTAT_PRE...	Luke Vapor Pressure	14.8	psig	18.8	12.0
PAB_S1_TE_411_CS_REA...	TC on Luke top flange (F_CV)	2.3	C	4.5	1.1
PAB_S1_PT_69_V_REAL_F...	Seal Monitor Vacuum	0.0007	Torr	14.5128	0.0001
PAB_S1_AE_350_AR_REA...	pab version for profiling (F_CV)	2.4	ppb	0.4	2.0

