

BS

see also R505 cal log

Wed: Day 01

NOTE: Ultrasonic bath was OFF today...

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MLML RADIOMETRIC CALIBRATION LOG				SETUP SKETCH / REMARKS	
EXPERIMENT	HI-2020-01		LOCATION	Van @ P35	
DATE	30 Jan 2020		OBSERVERS	MF	
INSTRUMENT	BS	S/N 05	CONFIG	101	
COLLECTOR	bare FO bundle	FO #6	DISTANCE	Jig @ sphere	
SOURCE	Ekspla	S/N	CONFIG	10	
PWR SUPPLY		S/N	CONFIG	12" Spect. sphere	
MULTIMETER		S/N	SHUNT		
LAMP VOLTAGE		CURRENT			
LAMP TIME	ON 02:08	WARMUP	OFF 05:10	TOTAL	
WHERE NODE :: DEV : [DIR]				PROCESSED DATE: BY:	

SETUP SKETCH / REMARKS
 MOBY 1mm FO #2103 between Ekspla & sphere
 2x Labsphere Si PD @ 2x sphere ports
 CCD-20477, Apr 2017, DU934P-BR-DD-9x7
 Spec # 10114-5
 FO bundle # 280908 @ 45cm $\equiv$ LONG!
 Vert 4.25 μ s, normal clock; Horiz 3 MHz @ 16bit
 Pre Amp 4x; Shtr 35/35 ms, Full auto

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current nm	Lamp Voltage UV mJ	Humidity % RH.	Temp. °C	Remarks
01:37	TEC on @ -60°C						327x ADU
01:49	sb20200130 cal; 004	30 sec	NA	NA	36	26	dark check w/ room light, ON
246	5:8	30	300	2.53			max pwr @ laser
306	009:012	30	320	2.50			
330	13:16	2.8	350				↓
350	17:20	0.05	375	2.50	33	27	max
458	21:24	3.0	405	0.65			150ms Adj pwr
509	TEC off				32	26	NOTE: 183ms $\equiv$ max adj
.Fits	files saved as 16 bit unsigned						

Tue | Day 02 | Note: Ultrasonic bath ON today...

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MLML RADIOMETRIC CALIBRATION LOG					
EXPERIMENT	HI-2020-01		LOCATION	calvan P35	
DATE	05 Feb 2020		OBSERVERS	MF	
INSTRUMENT	BS	S/N	05	CONFIG	101
COLLECTOR	bare FO #6	mux	position	fiber	DISTANCE
SOURCE	Ekspla	S/N		CONFIG	10
PWR SUPPLY		S/N		CONFIG	
MULTIMETER		S/N		SHUNT	
LAMP VOLTAGE		CURRENT			
LAMP TIME	ON	03:56	WARMUP	OFF	06:08 TOTAL 132min
WHERE NODE :: DEV : [DIR]					

SETUP SKETCH / REMARKS
16 bit unsigned .Fity File save 2dk/4et/2dk
also Σ Coule @ 2x Si PD mon File = 20200205-01 - Keithley.txt
PROCESSED DATE:
BY:

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA nm	Lamp Voltage UV mJ	Humidity % R.H.	Temp. °C	Pwr mS	Remarks
03:55	TEC on @ -60°C							
04:09	sd20200205 001:004	0.5s, 4x	450	0.51	35	26	148	Xpix = 290
426		5:8	500	.505			148	434
39		9:012	550	.59			149	576
4:50		13:16	600	.78			151	717
500		17:20	650	.88			152	857
512	38	21:24	690	1.27			156	968
524		25:28	750	1.06	42	26	154	no sig
535		29:32	800	0.95			153	no sig
44		33:36	850	0.95			153	no sig
554		37:40	900	0.95			153	no sig
0601		41:44	950	0.945			153	no sig

612 TEC = OFF

40 26

(21-Feb 00 MF)

Thu Day 3

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MLML RADIOMETRIC CALIBRATION LOG					
EXPERIMENT	HI-2020-01		LOCATION	Calvan@P35	
DATE	07 Feb 2020	OBSERVERS	MF		
INSTRUMENT	BS	S/N	05	CONFIG	101
COLLECTOR	bone FO#6			DISTANCE	
	mux	position	fiber		
SOURCE	Ekspla	S/N		CONFIG	10
PWR SUPPLY		S/N		CONFIG	
MULTIMETER		S/N		SHUNT	
LAMP VOLTAGE		CURRENT			
LAMP TIME	ON	01:12	WARMUP	OFF	03:43 TOTAL
WHERE NODE :: DEV : [DIR]					

SETUP SKETCH / REMARKS

Fill holes today ...
 2x Si PD mon Σ charge @
 20200207-01-Keithley.txt

PROCESSED DATE:

BY:

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA nm	Lamp Voltage V mJ	Humidity % R.H.	Temp. °C	pwr mS	Remarks
01:10	-60 °C TEC ON							
	sb20200207 001:004	.05s, 4x	355	2.53	61	24	MAX	Xpix = 11
204	5:8	1.0	475	0.445			147	362
215	9:12	0.5	520	0.61			149	490
24	13:16	.5	530	0.60			149	519
33	17:20	.5	540	.61			149	547
	21:24	.5	575	.805	62	25	151	646
300	25:28	1.75	625	.79			151	787
10	29:32	30s	702	1.28			156	1001
22	33:36	10s	775	1.09			154	no sig
31	37:40	10	875	1.09			154	no sig
37	41:44	10	909	0.99			153	no sig

0343 TEC OFF

(21-Feb-05 MF)

Fri = Day 4

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MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT HI-2020-01 LOCATION Van@P35
DATE 08 Feb 2020 OBSERVERS MF
INSTRUMENT BS S/N 05 CONFIG 101
COLLECTOR bare FO#6 mux position fiber DISTANCE
SOURCE Ekspla S/N CONFIG 10
PWR SUPPLY S/N CONFIG
MULTIMETER Keithley S/N SHUNT
LAMP VOLTAGE CURRENT
LAMP TIME ON 05:08 WARMUP OFF 07:34 TOTAL

WHERE NODE :: DEV : [DIR]

SETUP SKETCH / REMARKS

2nd order from near-UV = mas
saturate @ centre-o-cdd
not mess 2x Si PD Σ charge
... @ near-UV
probably should @ saturate...
but just PD #A...
File = 20200208-01 Keithley.txt

PROCESSED DATE:

BY:

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA hM	Lamp Voltage UV mJ	Humidity % RH	Temp. °C	Pwr mS	Remarks
05:05	-60°C TEC=ON							
5:18	5b20200208 01:004	.05s	360	2.55	45	24	MAX	Xpix = 26, 2 nd ~ 993
23	5:8	.05	362.5	2.55				34 1010
26	4:12	.05	365	2.55				41 1024
5:45	13:16, 17:20, 21:24	0.5, 1, 2	527.5	.600			149	512
5:55	25:28, 29:32, 33:36	5, 10, 30	"	.595			"	30s: 502:521 = horns
6:12	37:40, 41:44	60, 120	"	.600			"	60 473:531, 120 478: 547
6:44	TEC OFF				55	25		
	... R55 acorn							

Mon Day 5

MLML RADIOMETRIC CALIBRATION LOG				SETUP SKETCH / REMARKS	
EXPERIMENT	HI-2020-01		LOCATION	Vene tent, P35	
DATE	11 Feb 2020		OBSERVERS	MF	
INSTRUMENT	BS	S/N 05	CONFIG	1	
COLLECTOR	bone FO#6		DISTANCE	jig @ sphere	
SOURCE	Ornel 6000	S/N 371	CONFIG		
PWR SUPPLY	Ornel 68830	S/N 378	CONFIG		
MULTIMETER		S/N	SHUNT		
LAMP VOLTAGE	~4 Vdc		CURRENT	~5 A dc, ~22 W	
LAMP TIME	ON 00:38	WARMUP	OFF 01:13	TOTAL 35 min	
WHERE NODE :: DEV : [DIR]				PROCESSED DATE: _____ BY: _____	

Good band source to look for flat-window-glass
... should be gone...

look between 320 & 350 nm for 2nd order

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks	
00:29	-60°C TEC ON							
	s_b20200210 00:14	2.55			63	22		
01:03	5:8	"						
108	9:12	"						
01:15	TEC=OFF							
05:29	TEC=ON		DM	UV mJ			PWR MS	Laser on @ 05:33
548	s_b20200210 13:16	10s	348	2.53	59	24	MAX	2nd ~ pix 929
552	17:20	10	346	2.53				924
556	21:24	10	344	2.53				913
602	25:28	30	342	2.52				902
609	29:32	60	340	2.51				890 120, 186
621	33:36	60	338	2.51				no 2nd, but pk @ 420?
634	37:40	60	330	2.51	60	24	MAX	no 2nd
642	Laser OFF, TEC OFF @ 06:44							Laser Amin = 69

Thur Day 6

MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT	HI-2020-01	LOCATION	Rm 124, P35
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DATE 14 Feb 2020 OBSERVERS MF

INSTRUMENT BS S/N 05 CONFIG 101

COLLECTOR	14x bare FO	DISTANCE	YES
	mux position fiber		

SOURCE	room fluorescent	S/N	lights	CONFIG	via block-o white
PROP. SUPPLY		S/N		CONFIG	

PWR SUPPLY	S/N	CONFIG

MULTIMETER	S/N	SHUNT
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[illegible]

LAMP TIME	ON	WARMUP	OFF	TOTAL
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WHERE NODE :: DEV : [DIR]

SETUP SKETCH / REMARKS

illumin all FOs / track position chg

PROCESSED DATE:

BY:

[illegible]