## Appendix A: Calibration Data Log (LHOY- 20151222)

For different measurements listed below record six minutes of data for each setting and record the GPS time. For background measurements take 60 seconds of data. To avoid the transient and power instability issue, watch the OFSPD and TxPD monitor to see if they are reasonable before recording the GPS time for each measurement.

Also record the following	information if applicable:
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OFS Gain	Laser Power	Offset Value
37 dB	5 V	~ 4 V

## A.1. Measurement Settings, Procedure and Record Sheet:

1. Block the outer beam using the beam dump and place the Working Standard (WS#) on the path of the outer beam going to the test mass at TX module and record data below:

TxPD and WS#PD reading when the WS# is at inner beam at the TX module				
Data Acquisition (in GPS Time) Readings as obtained from MEDM screen:			from MEDM screen:	
Start Time #1	1134842970	TxPD	3.216	
Duration	360	WSPD	-0.581	
End Time	1134843330	OFSPD	-3.982	

2. Move the beam block to the inner beam and place the WS# on the outer beam at TX module and record data below:

TxPD and WS#PD reading when the WS# is at outer beam at the TX module			
Data Acquisition (in GPS Time)Readings as obtained from MEDM screen:			
Start Time #2	1134843490	TxPD	3.216
Duration	360	WSPD	-0.592
End Time	1134843850	OFSPD	-3.982

3. Close the shutter and take a background measurement for 60 seconds and record the data

Background for TX and WS when WS is at TX				
Data Acquisition (in GPS Time)Readings as obtained from MEDM screen:				
Start Time #3	1134843900	TxPD	0.011	
Duration	60	WSPD	-0.0001	
End Time	1134843960	OFSPD	-0.011	

4. Move the WS to Receiver (RX) Module and place it at the position of RxPD. Open the shutter and take a measurement and record that data below:

TxPD and WS#PD reading when the WS# is at outer beam at the RX module				
Data Acquisition (in GPS Time)Readings as obtained from MEDM screen:				
Start Time #4	1134844440	TxPD	3.216	
Duration	360	WSPD	-0.583	
End Time	1134844800	OFSPD	-3.982	

5. Move the beam block at TX to the outer beam leaving the working standard in the same position and record data below:

TxPD and WS#PD reading when the WS# is at inner beam at the RX module			
Data Acquisition (in GPS Time)Readings as obtained from MEDM screen:			
Start Time #5	1134844920	TxPD	3.216
Duration	360	WSPD	-0.573
End Time	1134845280	OFSPD	-3.982

6. Close the shutter and take background measurement for 60 seconds and record the data below:

Background for TX and WS when WS is at TX			
Data Acquisition (in GPS Time)Readings as obtained from MEDM screen:			
Start Time #6	1134845340	TxPD	0.011
Duration	60	WSPD	-0.001
End Time	1134845400	OFSPD	-0.012

7. Remove the WS from RxPD position and replace it with RxPD. Close the RxPD enclosure and open the shutter to make measurement. Record the data below:

TxPD and RxPD reading of the inner beam			
Data Acquisition (in GPS Time)Readings as obtained from MEDM screen:			
Start Time #7	1134845840	TxPD	3.215
Duration	360	RxPD	2.296
End Time	1134846200	OFSPD	-3.982

8. Move the beam block to the inner beam and take measurement. Record the data below:

TxPD and RxPD reading of the outer beam				
Data Acquisition (in GPS Time)Readings as obtained from MEDM screen:				
Start Time #8	1134846300	TxPD	3.215	
Duration	360	RxPD	2.336	
End Time	1134846660	OFSPD	-3.982	

9. Close the shutter and move the beam block away from the beam path and take a background measurement for 60 seconds and record the data below:

Background for TxPD and RxPD			
Data Acquisition (in GPS Time) Readings as obtained from MEDM screet			from MEDM screen:
Start Time #9	1134846680	TxPD	0.012
Duration	60	RxPD	-0.001
End Time	1134846740	OFSPD	-0.012