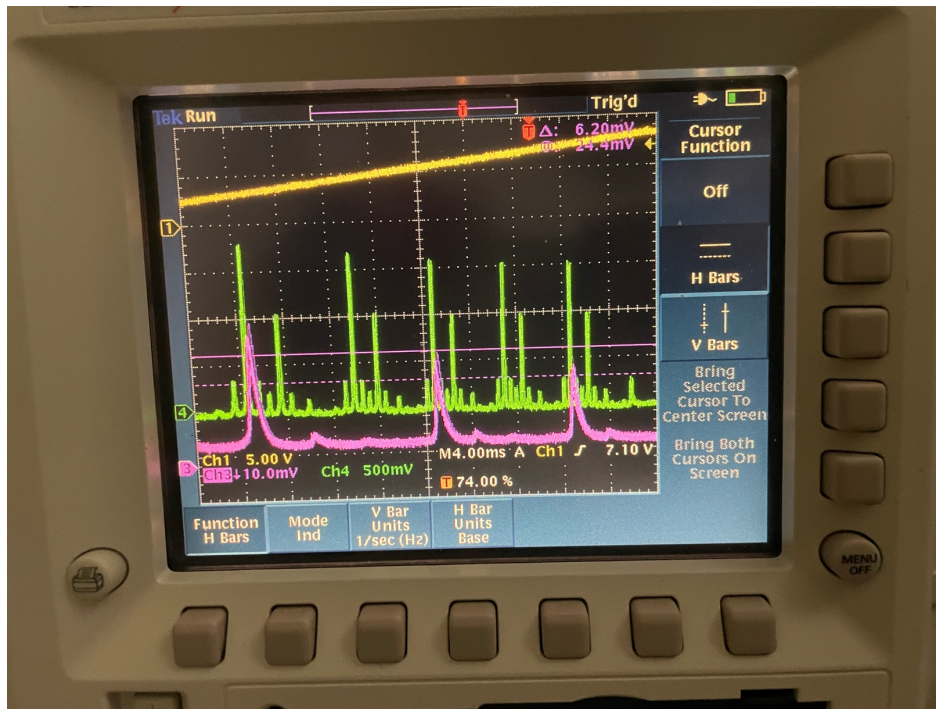


17th October – SQZ OPO Crystal Move

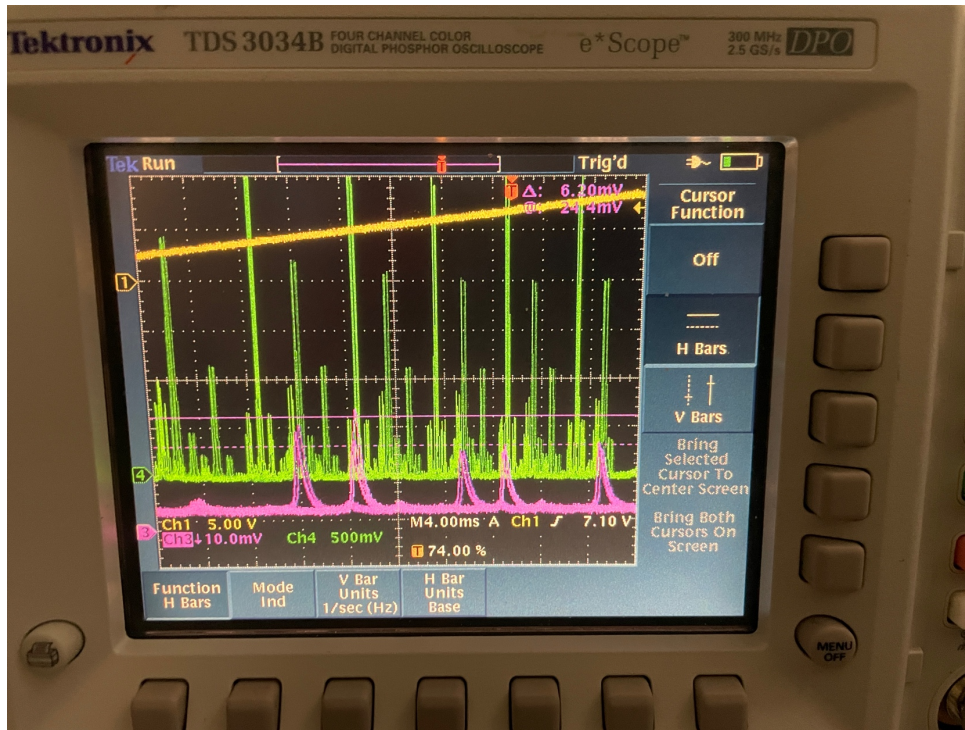
+300 to R (in 3 steps of 100)	Green has higher power, not on co-res yet. Seemed to move a lot.
+30 R (3 steps of 10)	
-320 to L	Similar “steps” gives different red resonance position.
-100 to L	
+100 to R	
+1050 to R (21 steps of 50)	At Right edge of crystal. Alignment bad, not much green light.
-2000 to L (40 steps of 50)	At first spot from Right.
-2200 to L (44 steps of 50)	2nd spot from right
-3050 to L (61 steps of 50)	3rd spot from right
-2800 to L (56 steps of 50)	4th spot from right
-2350 to L (47 steps of 50)	5th spot from right
-2200 to L (44 steps of 50)	6th spot from right
-2600 to L (52 steps of 50)	Fell off edge of crystal
+900 to R (18 steps 50)	Moving faster this way
+780 to R (78 steps to 10)	1st stop from left (6th from R)
+1540 to R (77 steps of 20)	2nd step from Left (5th from right)
Some fine tuning to get co-res	Leaving at this 2nd from Left, 5th from right spot.

Green alignment looked bad at all spots. This could be from misalignment of OPO path or HOM in fiber.

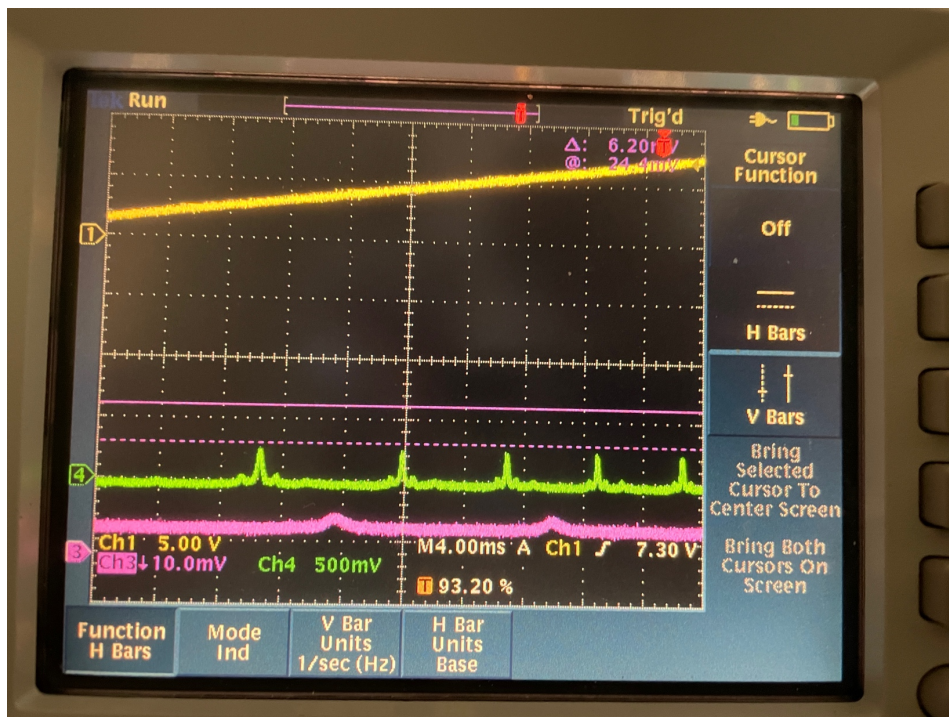


^Starting Position

17th October – SQZ OPO Crystal Move



^ First spot from Right



^ Right Edge

17th October – SQZ OPO Crystal Move

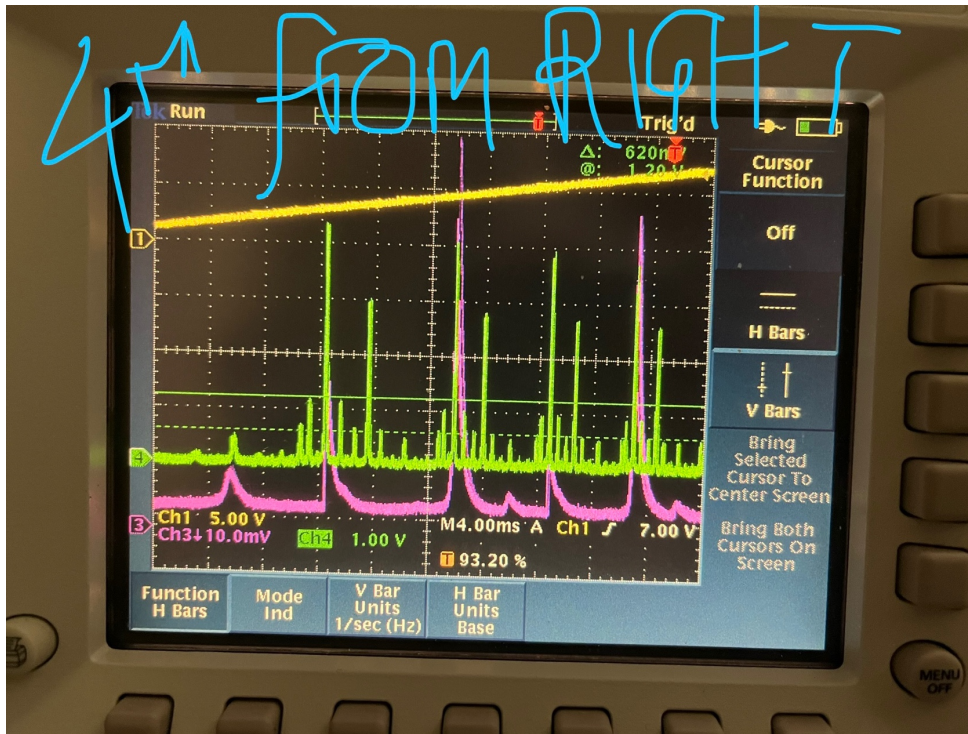


^ 2nd spot from Right

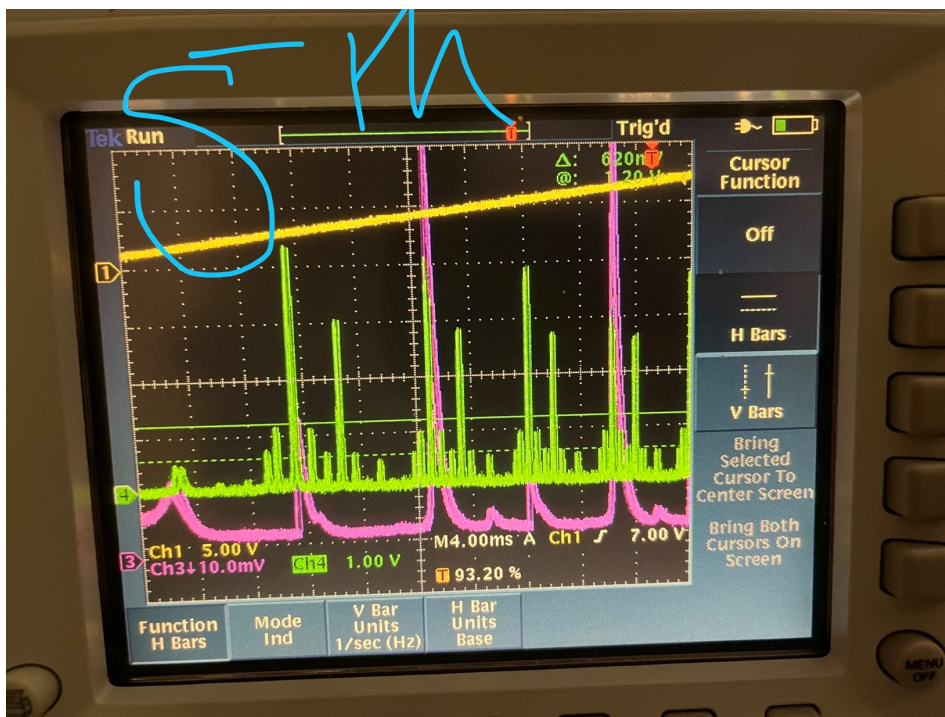


^ 3rd spot from Right

17th October – SQZ OPO Crystal Move



^ 4th spot from Right

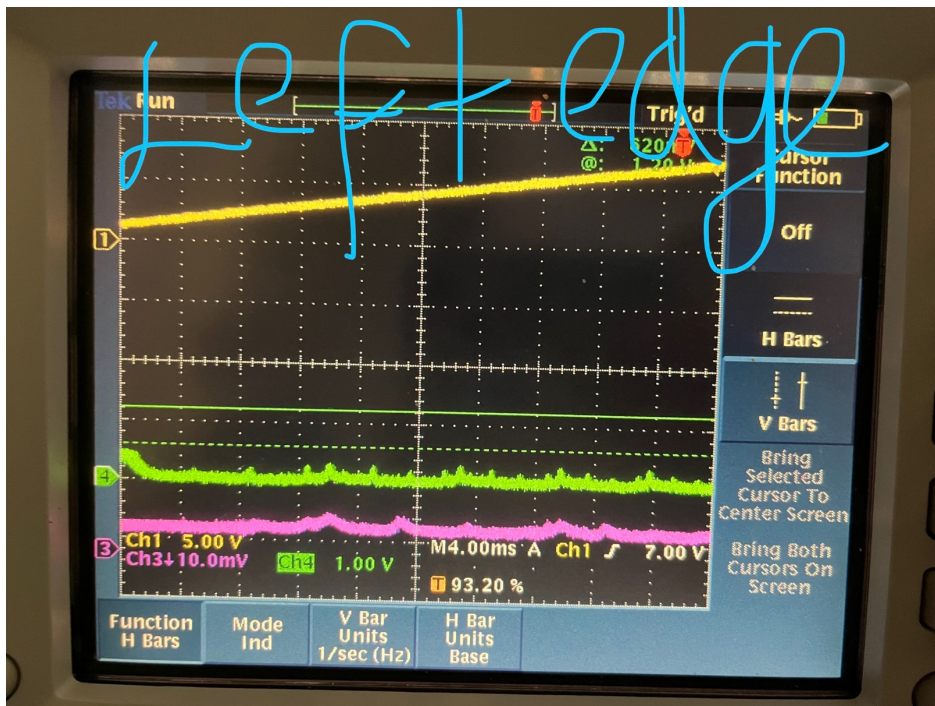


^ 5th spot from Right. Came back and left in this spot after more fine-tuning.

17th October – SQZ OPO Crystal Move

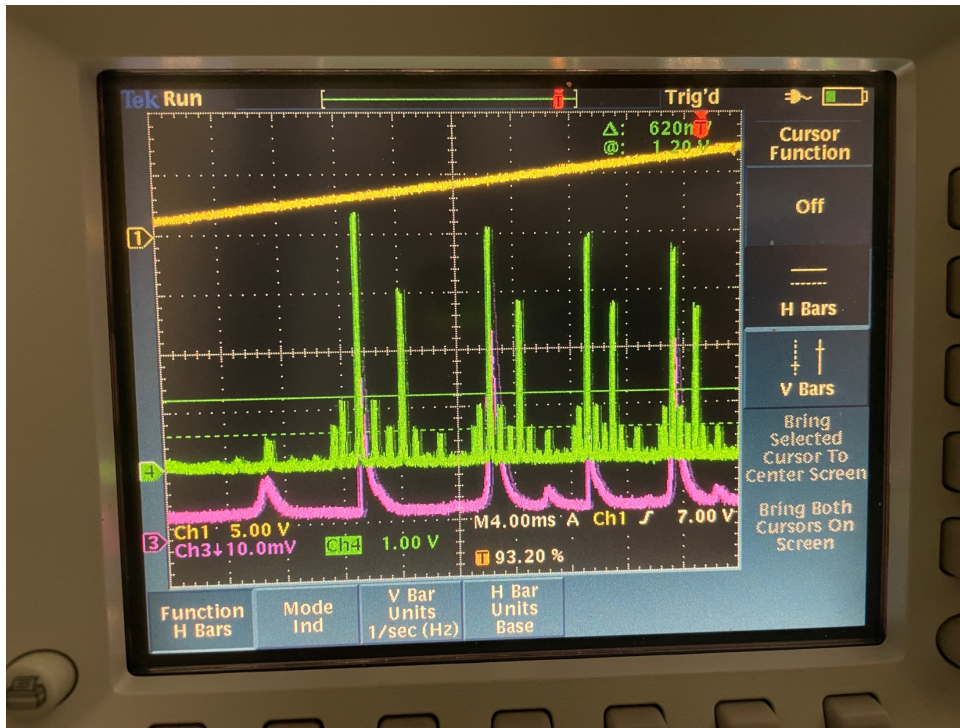


^ 6th spot from Right



^ Left Edge

17th October – SQZ OPO Crystal Move



^ final position

```
Screenshot from 2023-... Screenshot from 2023-... Screenshot from 2023-...
controls@cdsdell425: medm
controls@cdsdell425: medm 80x30
controls@cdsdell425: medm 0$
controls@cdsdell425: medm 0$ python
Python 3.10.12 | packaged by conda-forge | (main, Jun 23 2023, 22:40:32) [GCC 12
.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> def vis(max,min):
...     return (max-min)/(max+min)
...
>>> NLG = 0.013/0.0009
>>> PD1 = vis(1.48,10.3)
>>> PD1 = vis(1.48,10.3); PD1
-0.7487266553480475
>>> PD1 = vis(1.48e3,10.3); PD1
0.9861772797423338
>>>
>>>
>>> PD1 = vis(1.48e3,10.3); PD1
0.9861772797423338
>>> 1-PD1**2
0.027454372920010628
>>>
>>> PD2 = vis(1.5e3,14.8); PD2
0.9804594665962504
>>> 1-PD2**2
0.03869923436179623
>>>
>>> NLG=0.0179/.00149
>>> NLG=0.0179/.00149; NLG
12.013422818791947
>>> □
```