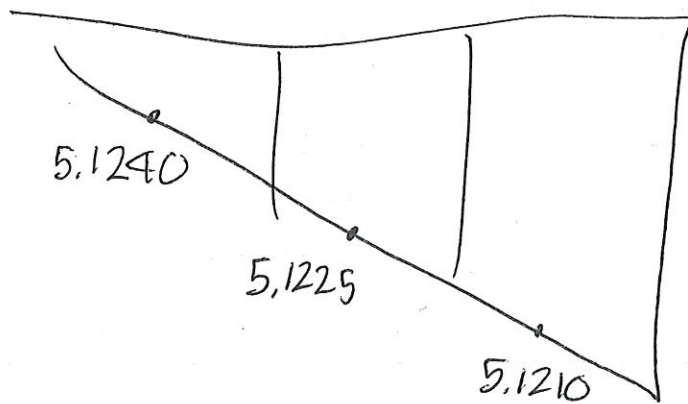
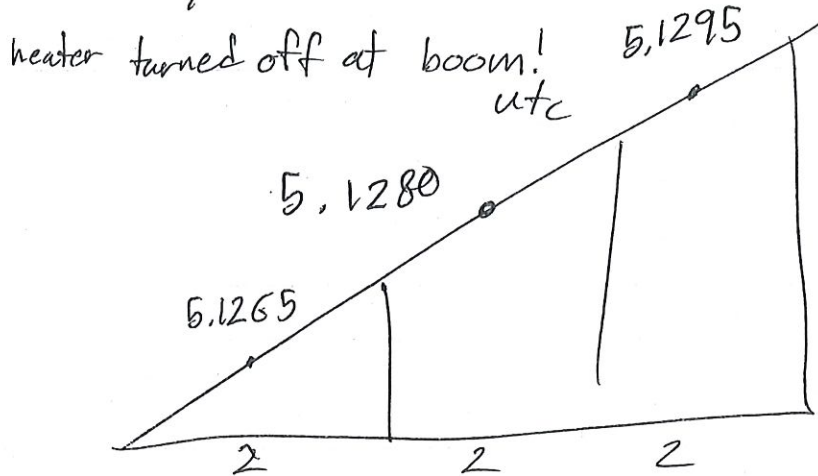


bw	wrf	window	CIF
4.5	0.5	14	20

$$\begin{array}{r}
 5.1280 \\
 - 0.00225 \\
 \hline
 \textcircled{5.12575} \text{ MHz} \rightarrow 5.13025 \text{ MHz} \\
 \updownarrow \\
 5.12475 \\
 f \quad 0.5 \text{ MHz}
 \end{array}$$

$\textcircled{5.12525}$

edlyn → levine@fas.harvard.edu



0.1

$\frac{1}{6}$

0.16

~~wrf~~  
wrf  
(total)

bw	wrf	window	CIT
1.5	0.5	14	2

0.05

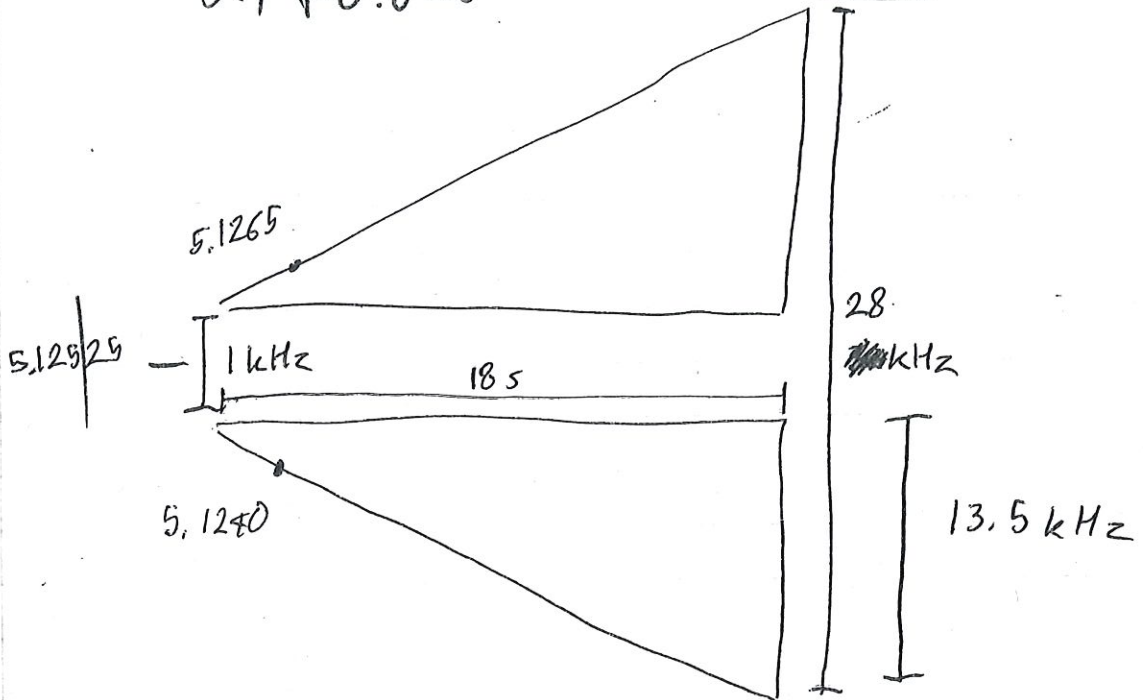
0.1

0.16

marcielago  
marciegala

estomago  
estogama

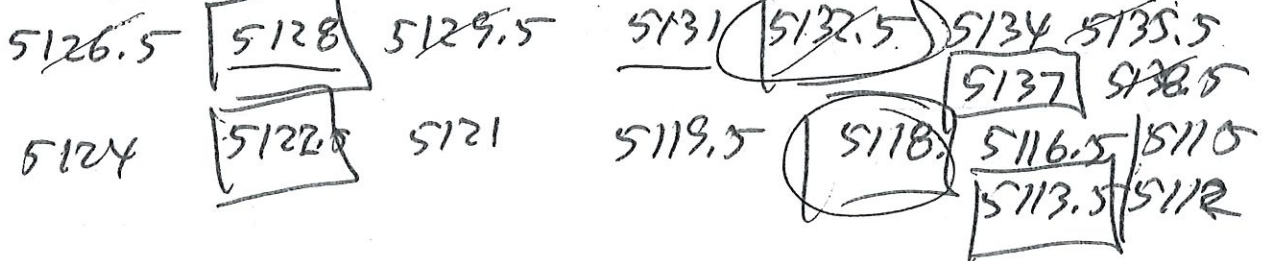
$$5.1 \pm 0.0265$$



9 chirps, 2 seconds each

1.5 kHz BW

Centers:

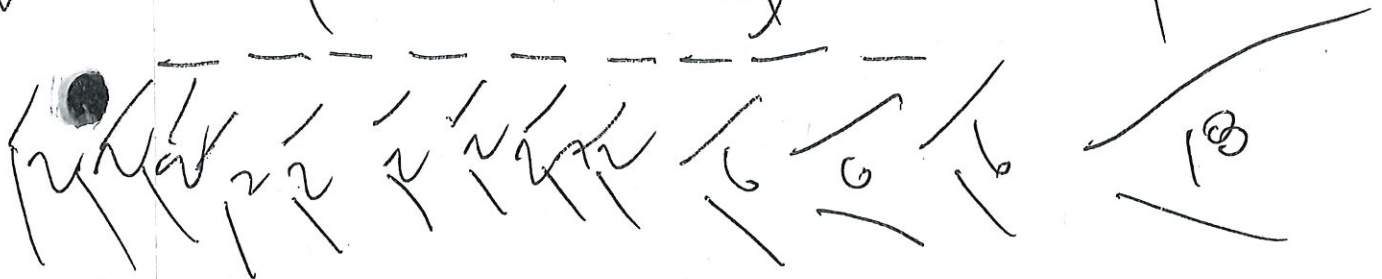


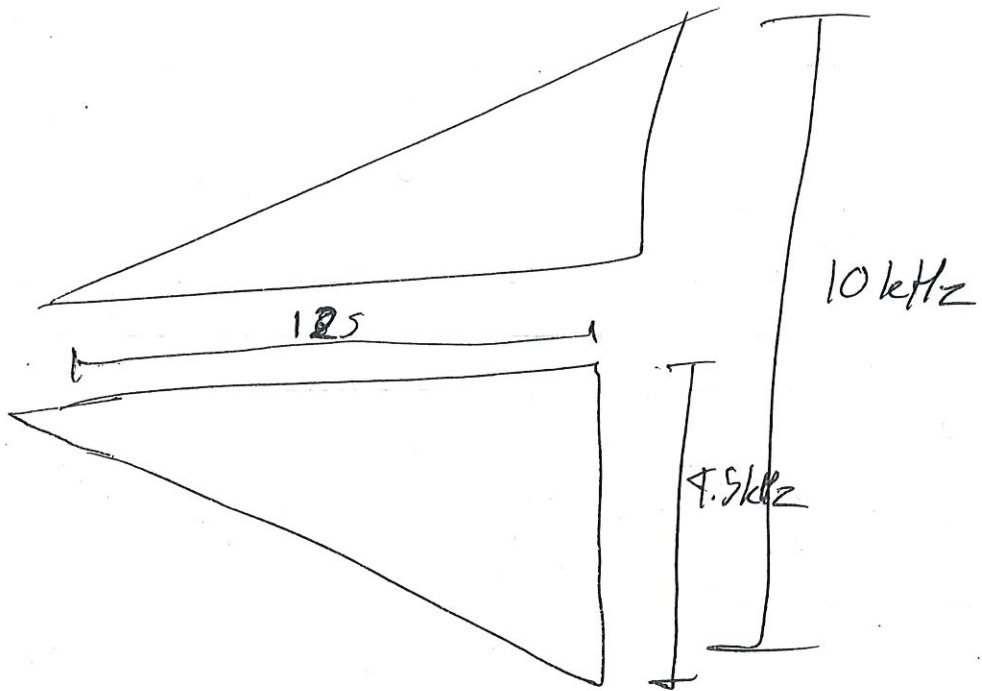
4.6

$$27 \times \frac{2}{3}$$

9

9



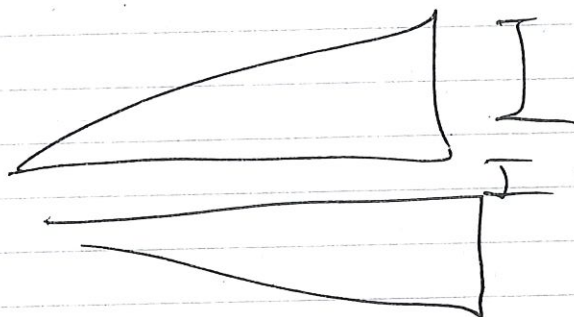
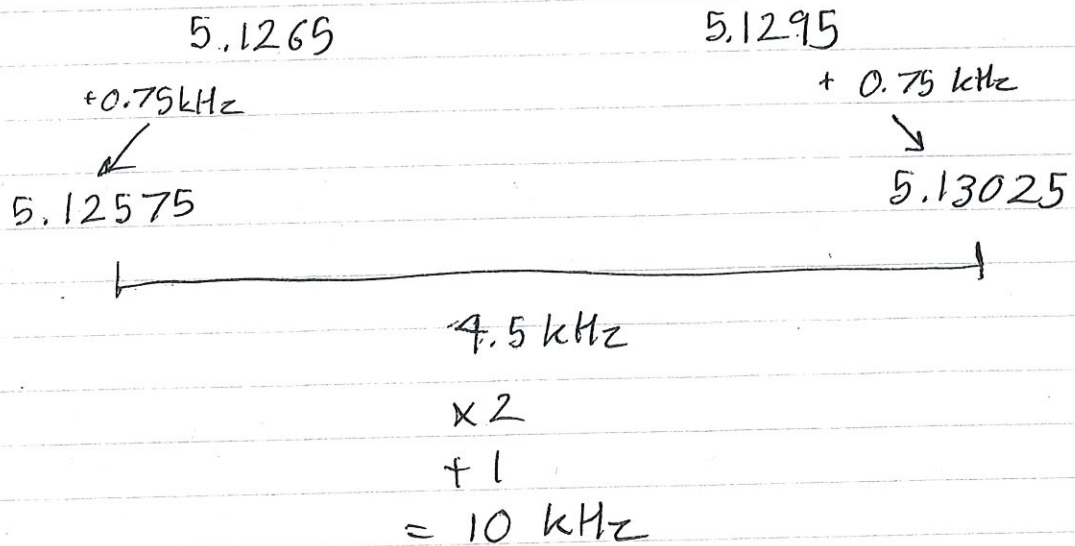


$$bw = \boxed{0.75 \text{ kHz}} \quad CIT = 2 \quad vrf = 0.5$$

$$\frac{1}{2}(bw) + \frac{1}{2}$$

$$\cancel{\text{125}} \quad 5.125 + 0.875 \text{ kHz}$$

$$5.125875$$



10 AM - 10 PM

Mode 2

- CW 5.125 MHz

Hour breakdown

~~XXXXXXXXXXXXXXXXXXXX~~

T=0 start

T=55 stop

Mode 1

time to load

IF underdense (vlads hold + stepping)  
5.125 MHz

3s

IF overdense: CW (on/off)

Mode 3

✓

3s L=0

3s L=1

3s

on

Mode 4

✓

chirp 6s : 10 kHz BW

~1 min

~1 min

or

✓

12s CW, 12 seconds

5.125125 MHz

~~15 chirps~~

9 2s a piece

Mode 5

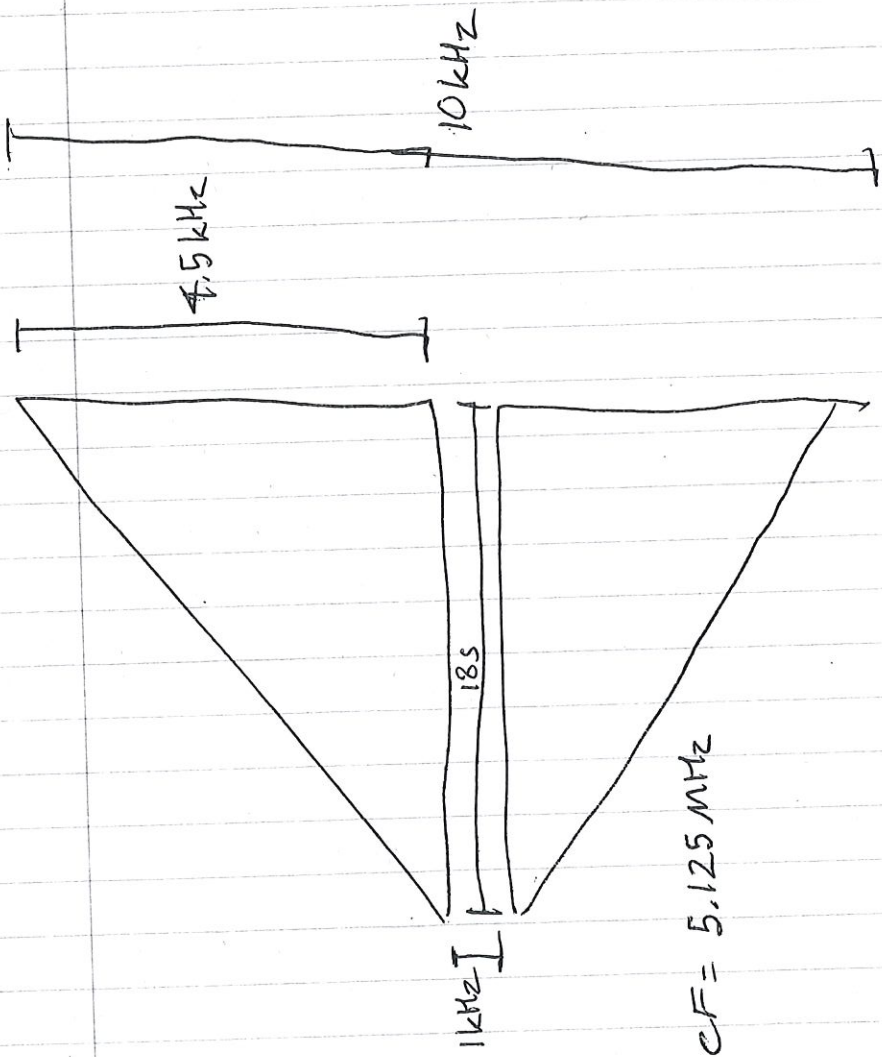
Modif

18

12

s CW, s Chirp

5.125 10kHz total BW

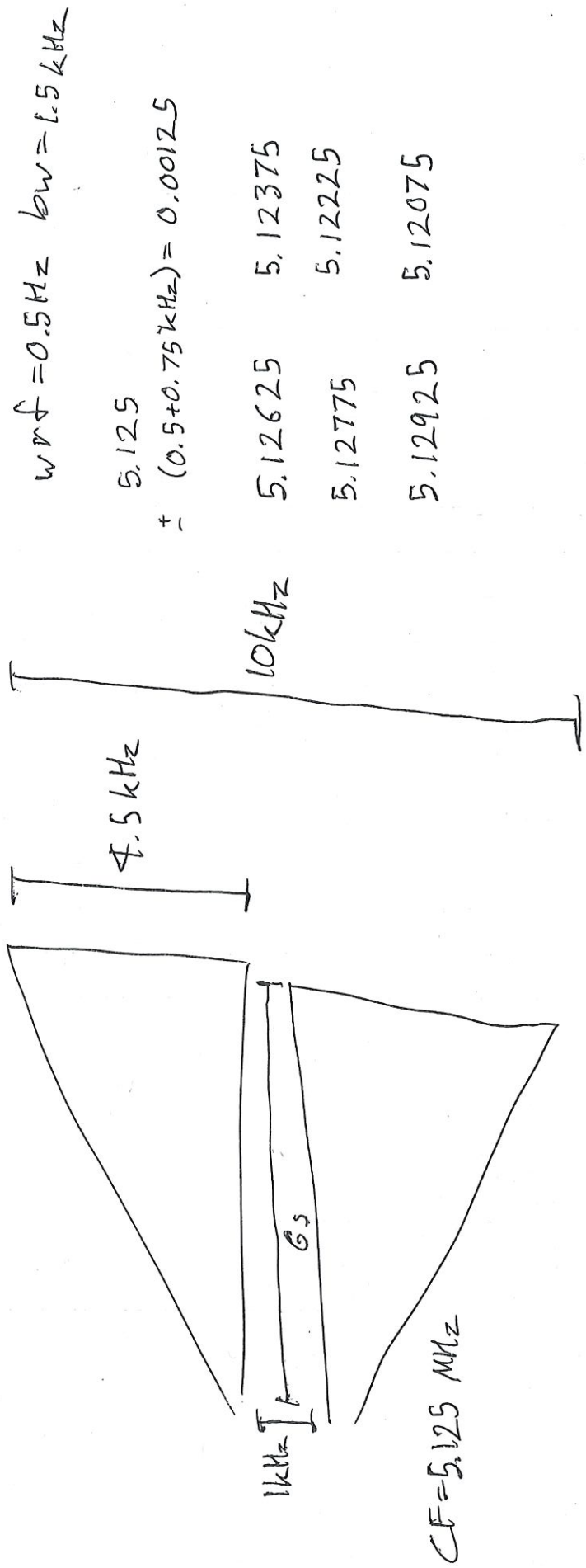


CF = 5.125 MHz

wrf = 0.5 kHz      bw = 0.5 kHz

5.125  
 ±.00075  
 5.12575  
 5.12625  
 5.12675  
 —————  
 5.12725  
 5.12775  
 5.12825  
 —————  
 5.12875  
 5.12925  
 5.12975

5.12425  
 5.12375  
 5.12325  
 —————  
 5.12275  
 5.12225  
 5.12175  
 —————  
 5.12125  
 5.12075  
 5.12025



$wrf = 0.5 \text{ Hz}$   $bw = 1.5 \text{ kHz}$

5.125

$\pm (0.5 \pm 0.75 \text{ kHz}) = 0.00125$

- 5.12625    5.12375
- 5.12775    5.12225
- 5.12925    5.12075

$wrf = 0.5 \text{ Hz}$   $bw = 0.75$

- 5.125
- $\pm 0.000875$
- 5.125875
- 5.126625
- 5.127375
- 5.128125
- 5.128875
- 5.129625



CF = 5.125 MHz

- 5.124125
- 5.123375
- 5.122625
- 5.121875
- 5.121125
- 5.120375



① 122  
85  
0

② 62  
345  
293

~~-6 62~~  
~~-6 345~~  
~~-6 293~~

~~-6 122~~  
~~-6 85~~  
~~-6 0~~

~~-6 122~~  
~~-6 85~~  
~~-6 0~~  
~~(-12)~~

~~-6 62~~  
~~-6 345~~  
~~-6 293~~  
~~(-12)~~

-8.7	126
-9	91
-6.4	0

-11.7	64
-11.9	341
-9.1	298



-7.6	126
-7.5	91
-5.0	0

-10.5	64
-11.3	341
-7.5	298

} 8.175 MHz  
~80 kW  
per  
tx.

①

②

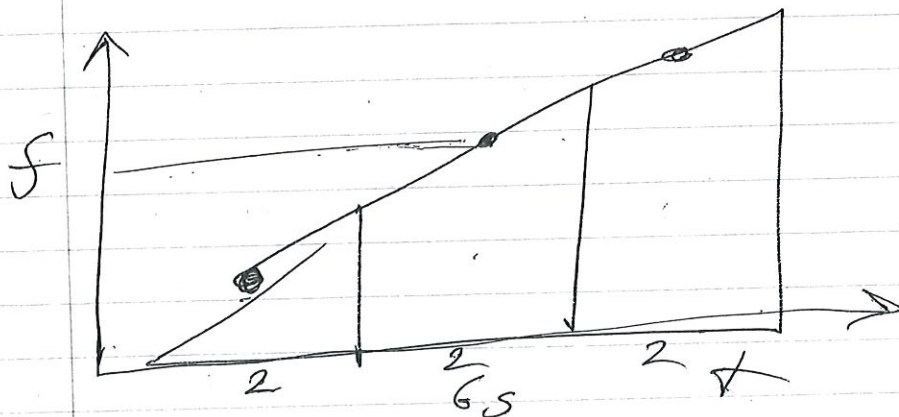
3 min ~~off~~ L=0  
3 min L=1  
3 min L=0  
3 min off

NRL Fed Ex  
acc #  
0200-3656-7

100 Hz WRF | ~~25~~ kHz bw | 5.125 MHz  
CF  
10 Hz WRF | ~~25~~ kHz bw

Louis : ex 320

Arecibo Observatory  
B.D. Esperanza Ad. 625 final  
Arecibo P.R. 00612



$$\frac{1}{6.5} = 0.15 \text{ Hz}$$