

# Direct Measurement of the NB filter CWs by Dome Flat

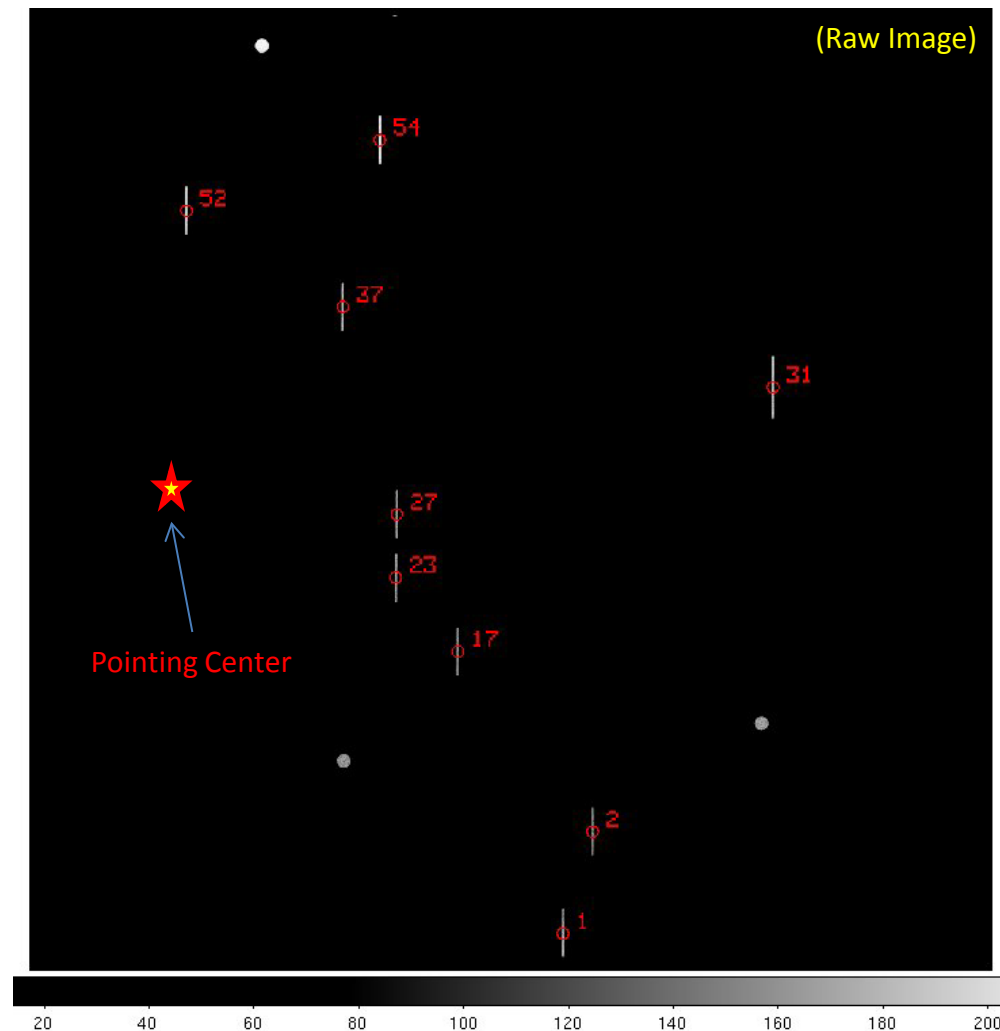
2013-07-26

(2013-11-27 update)

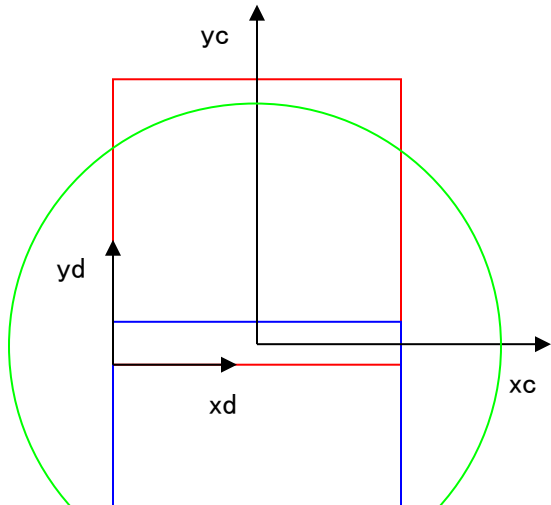
Ichi Tanaka

# Direct Measurement of Transmission Curve by Dome Flat

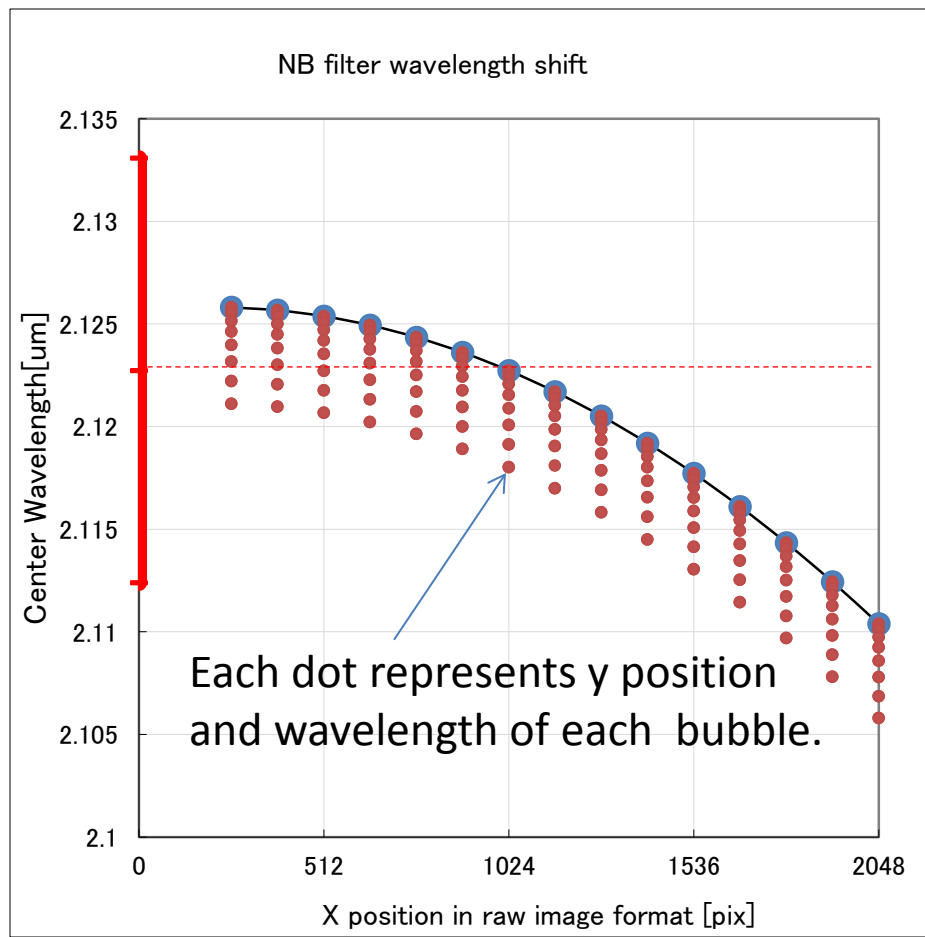
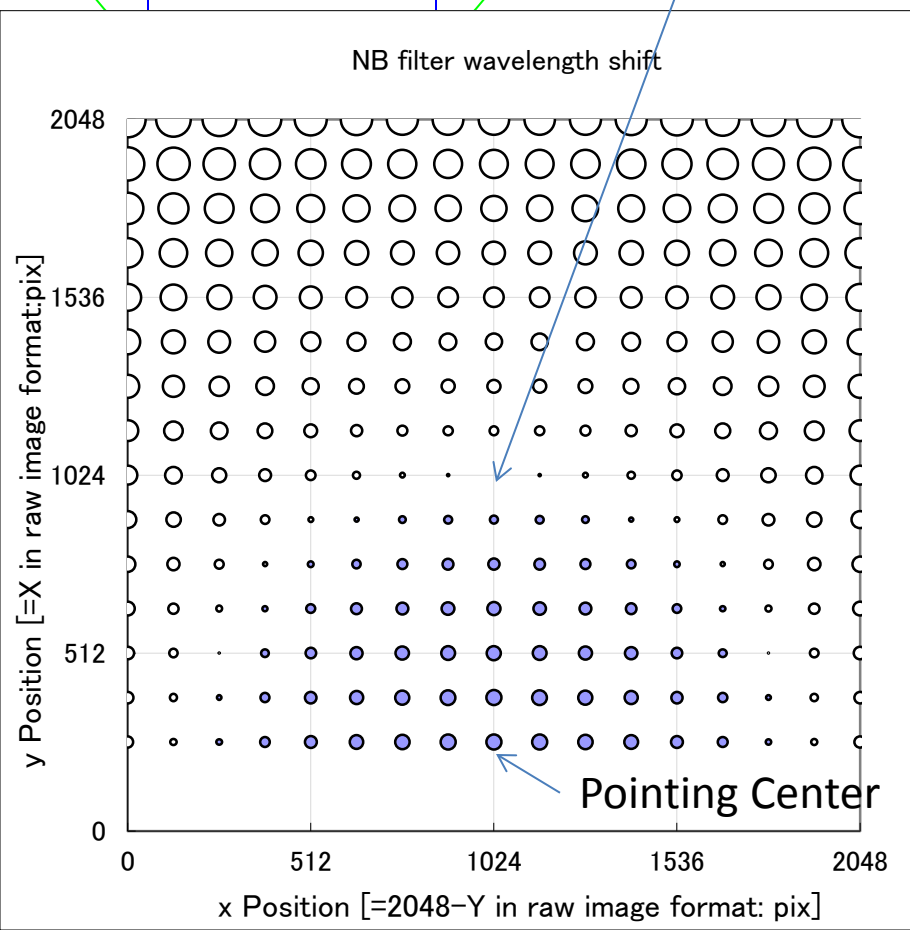
- Data Acquisition: 2012-10-03 (UT)
  - Cloudy night of Kodama+ is used.
  - HK500 + NB
  - Wavelength Calib by ThAr [1. 296 -- 2.3851 $\mu$ m]
  - Dome Flats (OC1.3+HK500)
- MOS mask ... "TK\_MASK\_1"
  - Ch2 data is used.
- Simulation of the central WV shift ... Suzuki et al. (2005, private comm.)
  - Adjust  $n$  and  $\lambda$  so that the difference between the data and calculation scatters around 0 without systematics.
  - Worksheet information included in the ppt file (click graph, then select "Edit Data")



Result



Stated CW is the value at the center of detector.  
The size of bubble refers to the wavelength shift.  
Larger is more shift. Blue is positive and white is negative.



## NB1550

CH2:

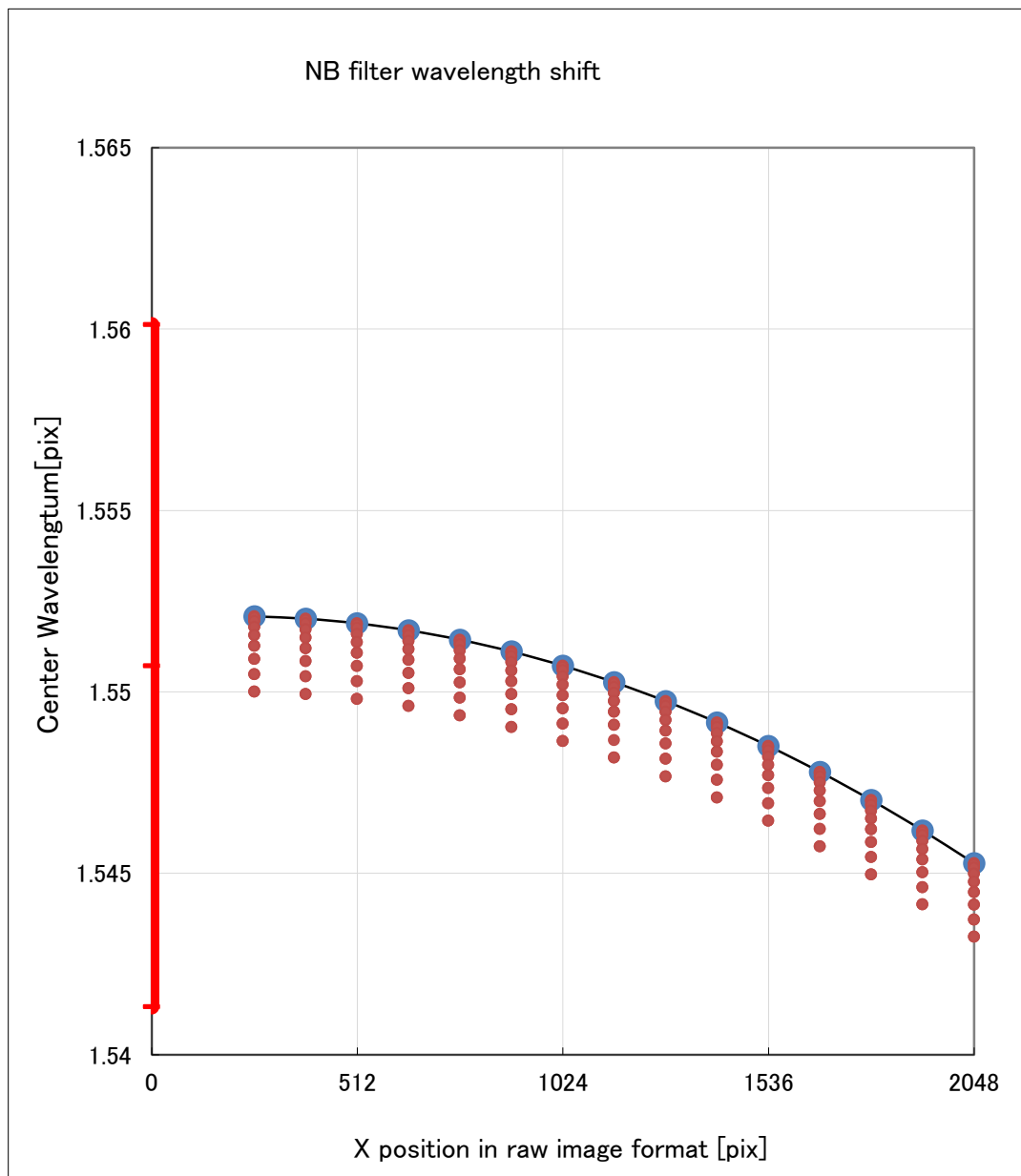
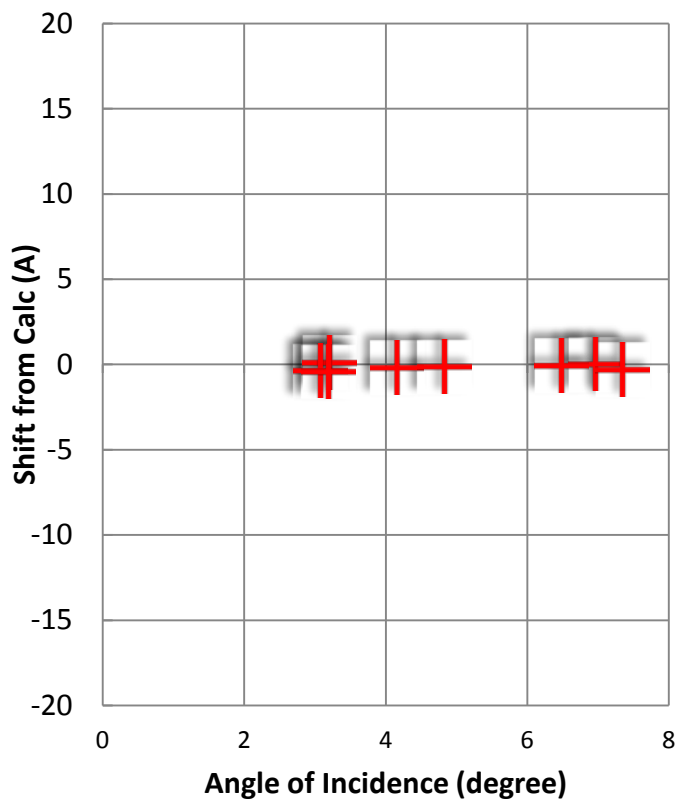
CW=15507A

BW=188A

CH1:

CW=15482A

BW=182A



## NB1657

Ch2:

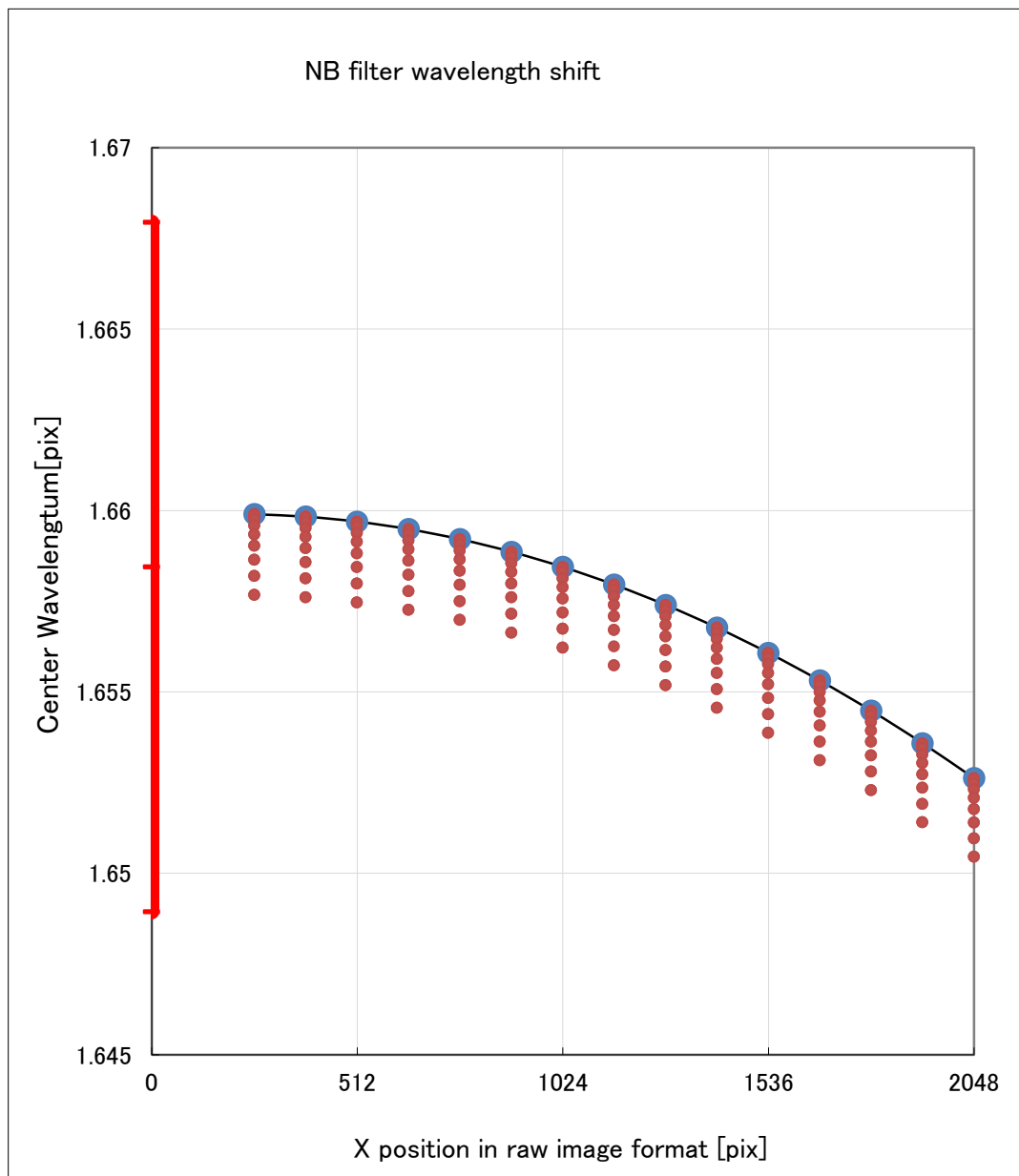
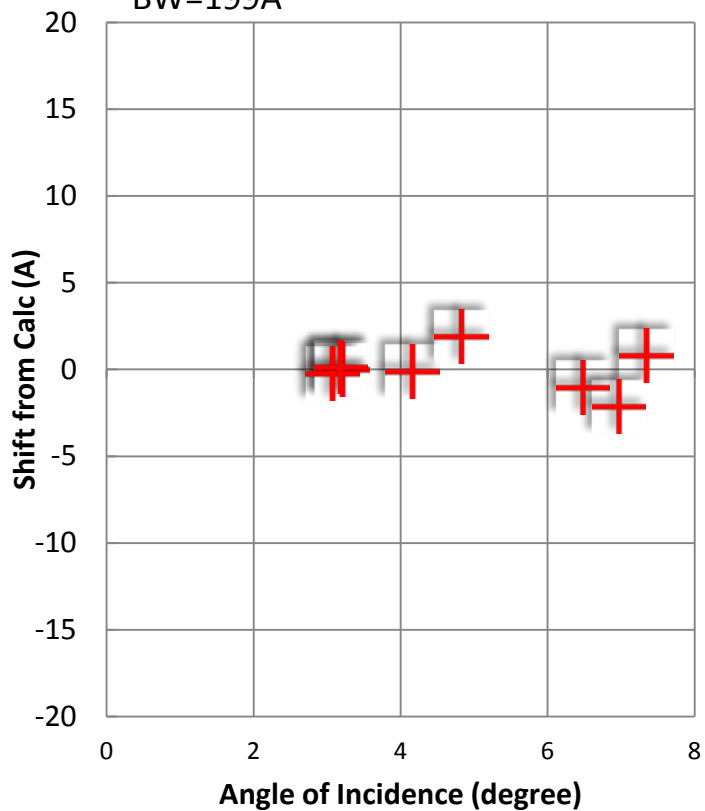
CW=16584A

BW=190A

CH1:

CW=16574A

BW=199A



## Fe2

CH2:

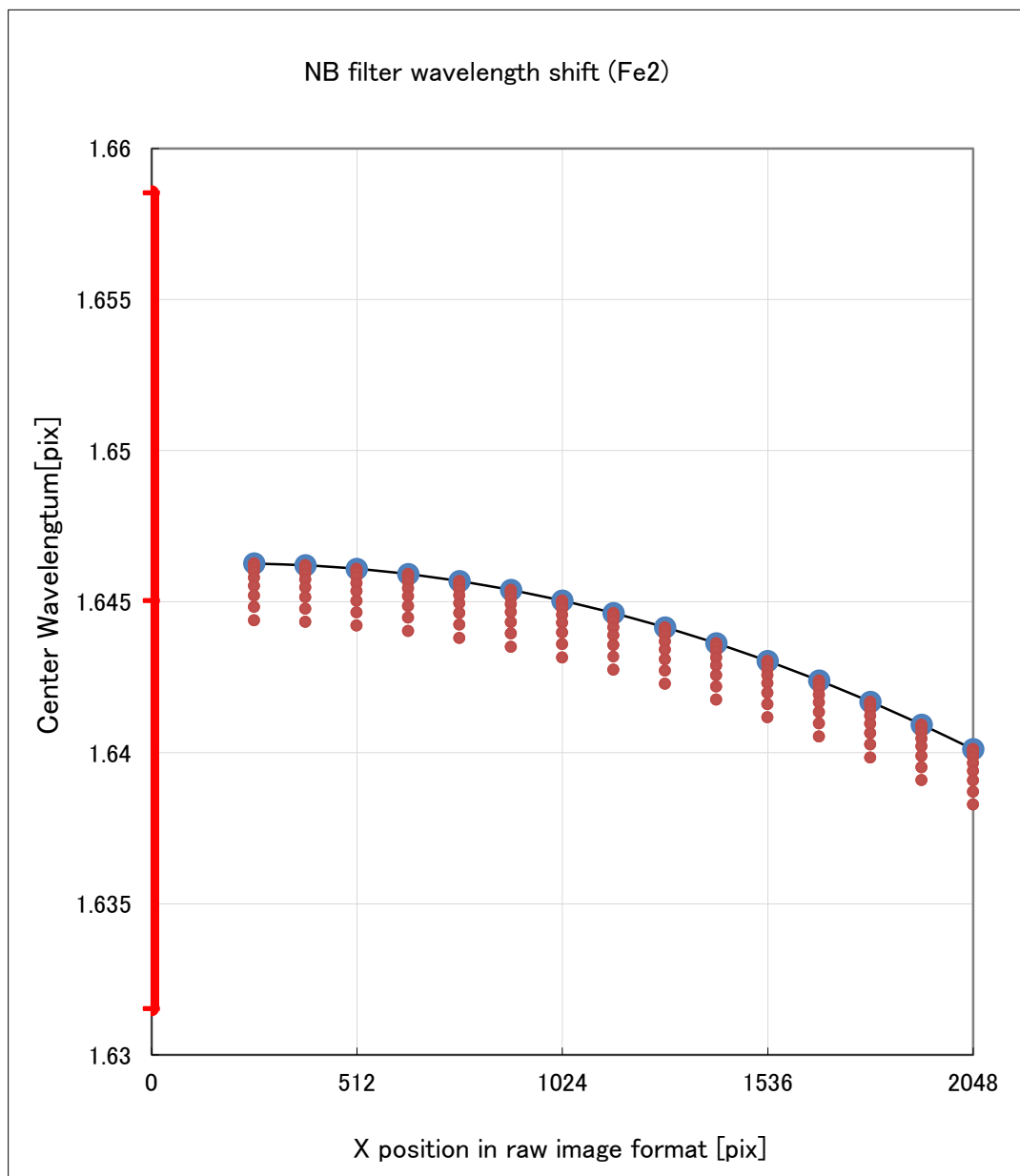
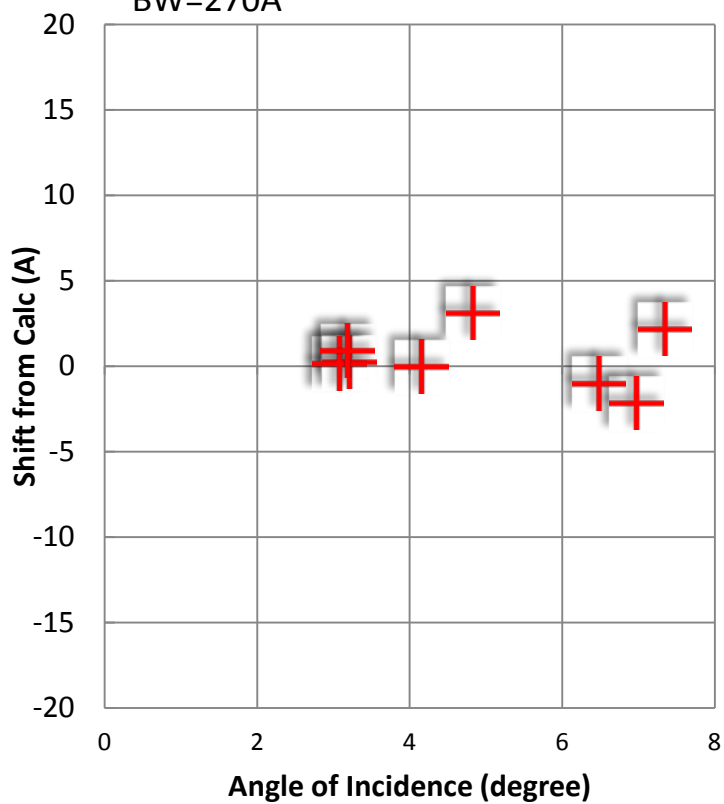
CW=16450A

BW=270A

CH1:

CW=16435A

BW=270A

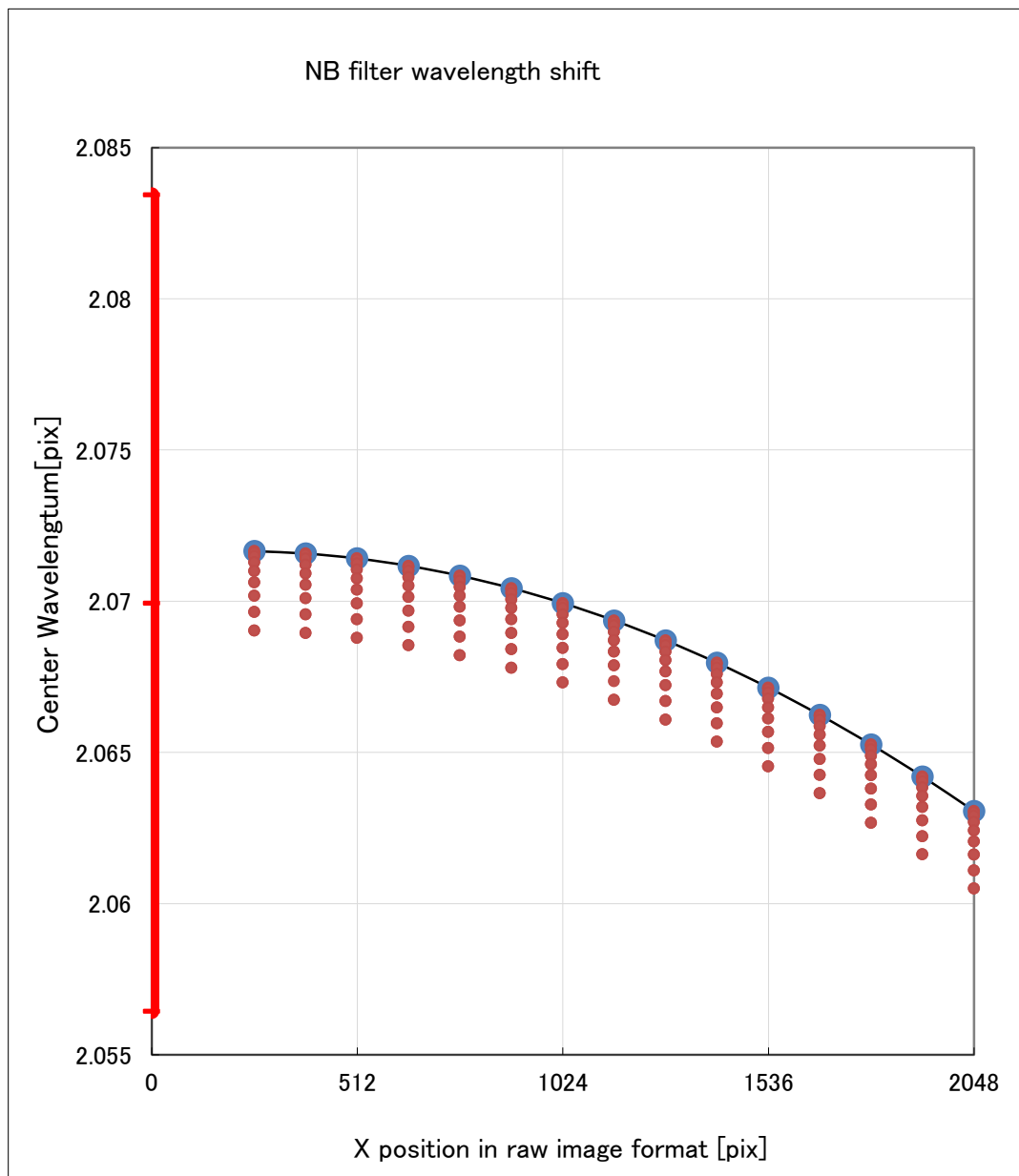
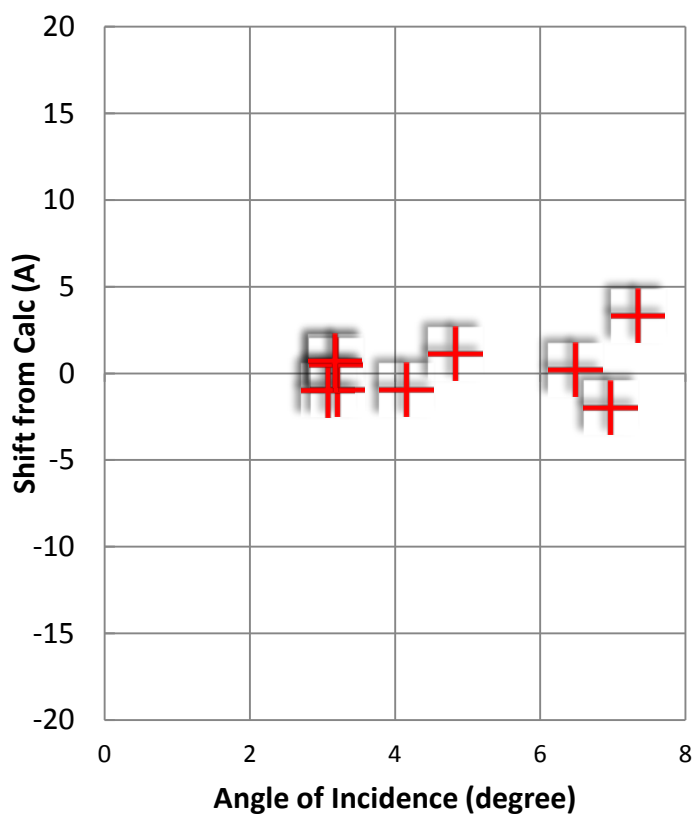


## NB2071

CW=20699A

BW=270A

Ch1 & Ch2 same.

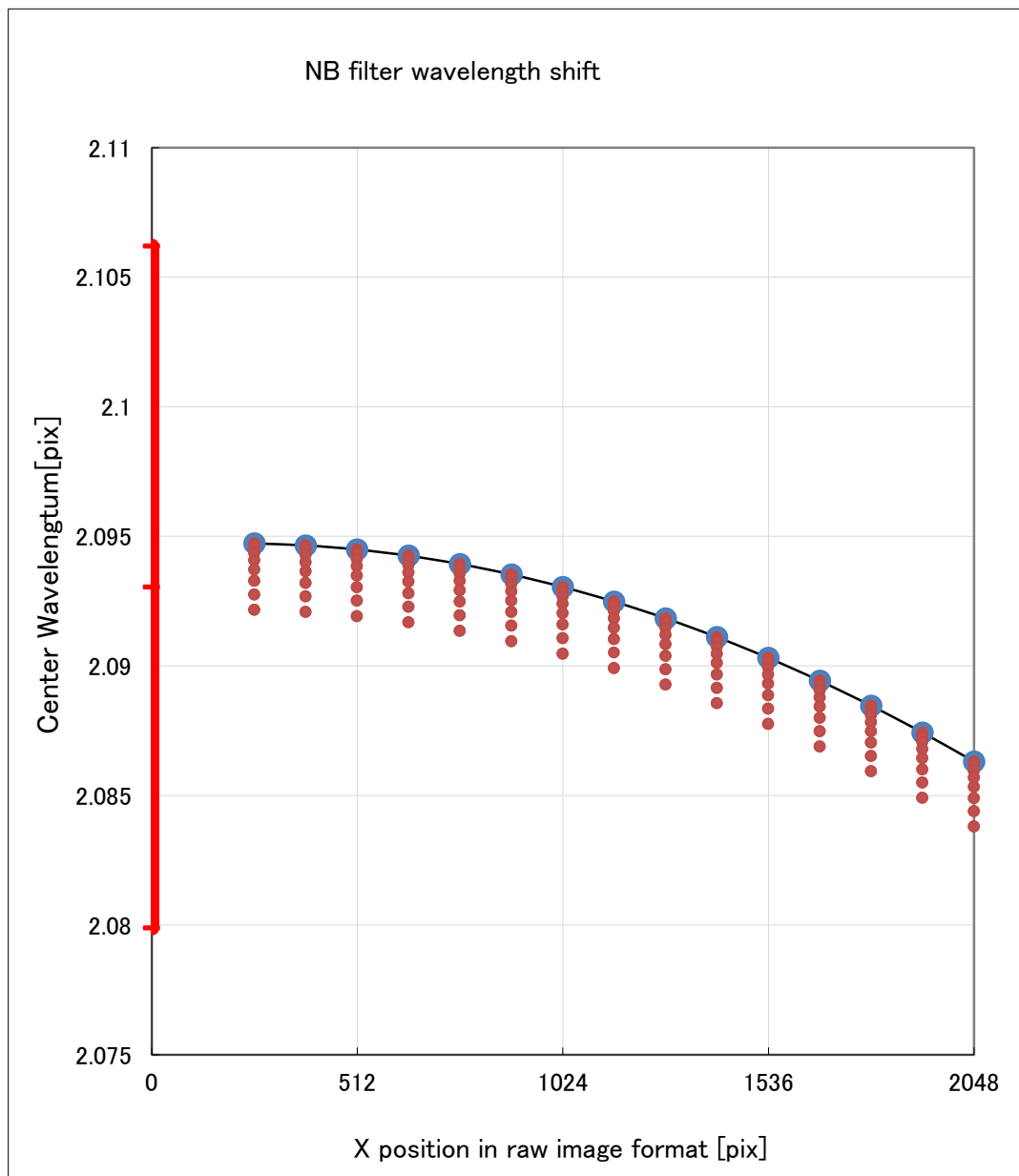
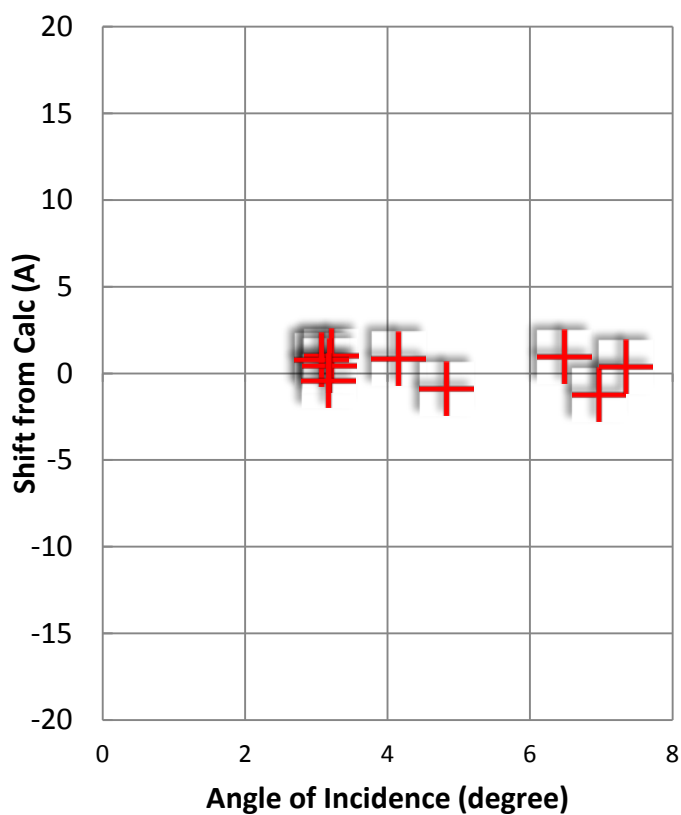


## NB2095

CW=20930A

BW=263A

Ch1 & Ch2 same.



## H2 (ch2)

CH2:

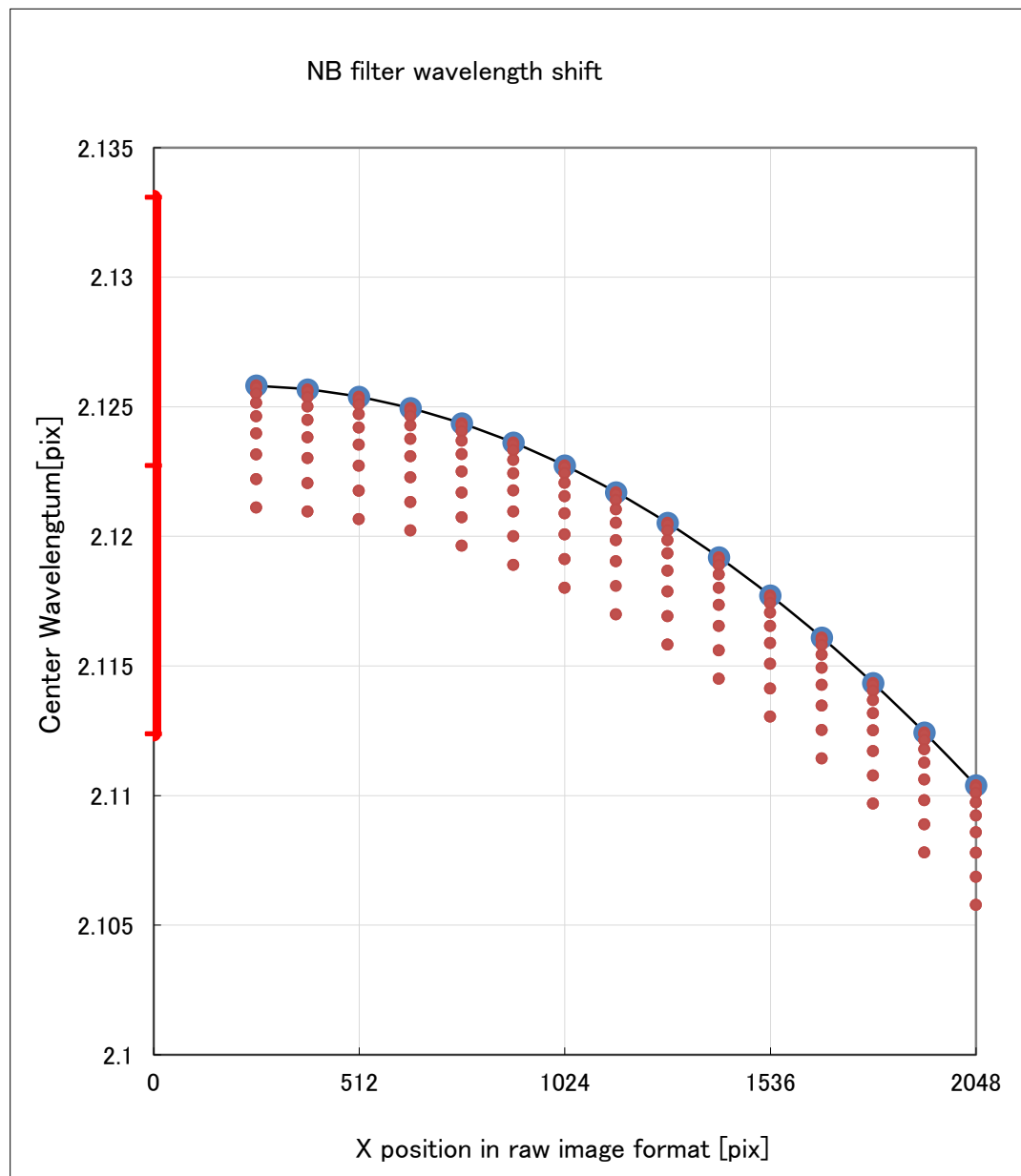
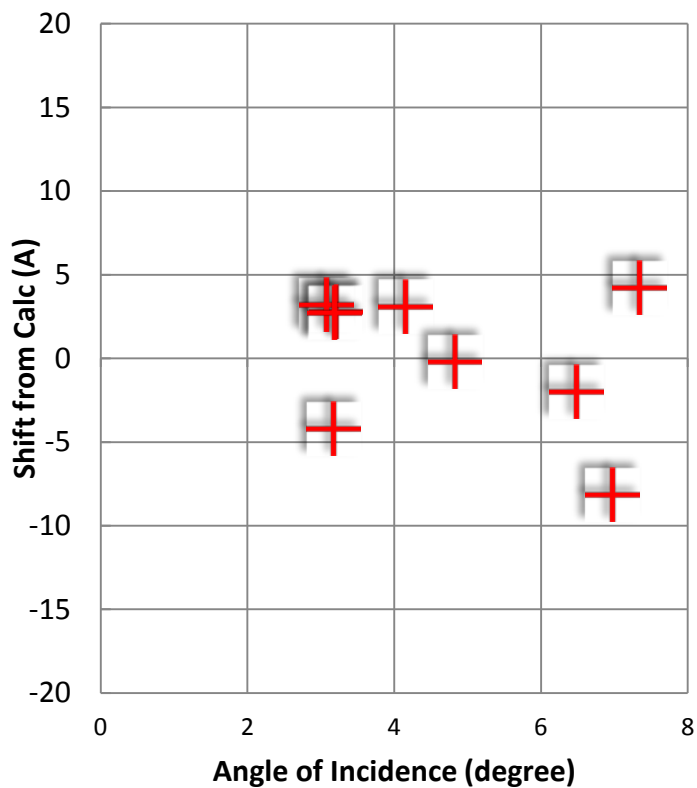
CW=21227A

BW=207A

CH1:

CW=21220A

BW=208A

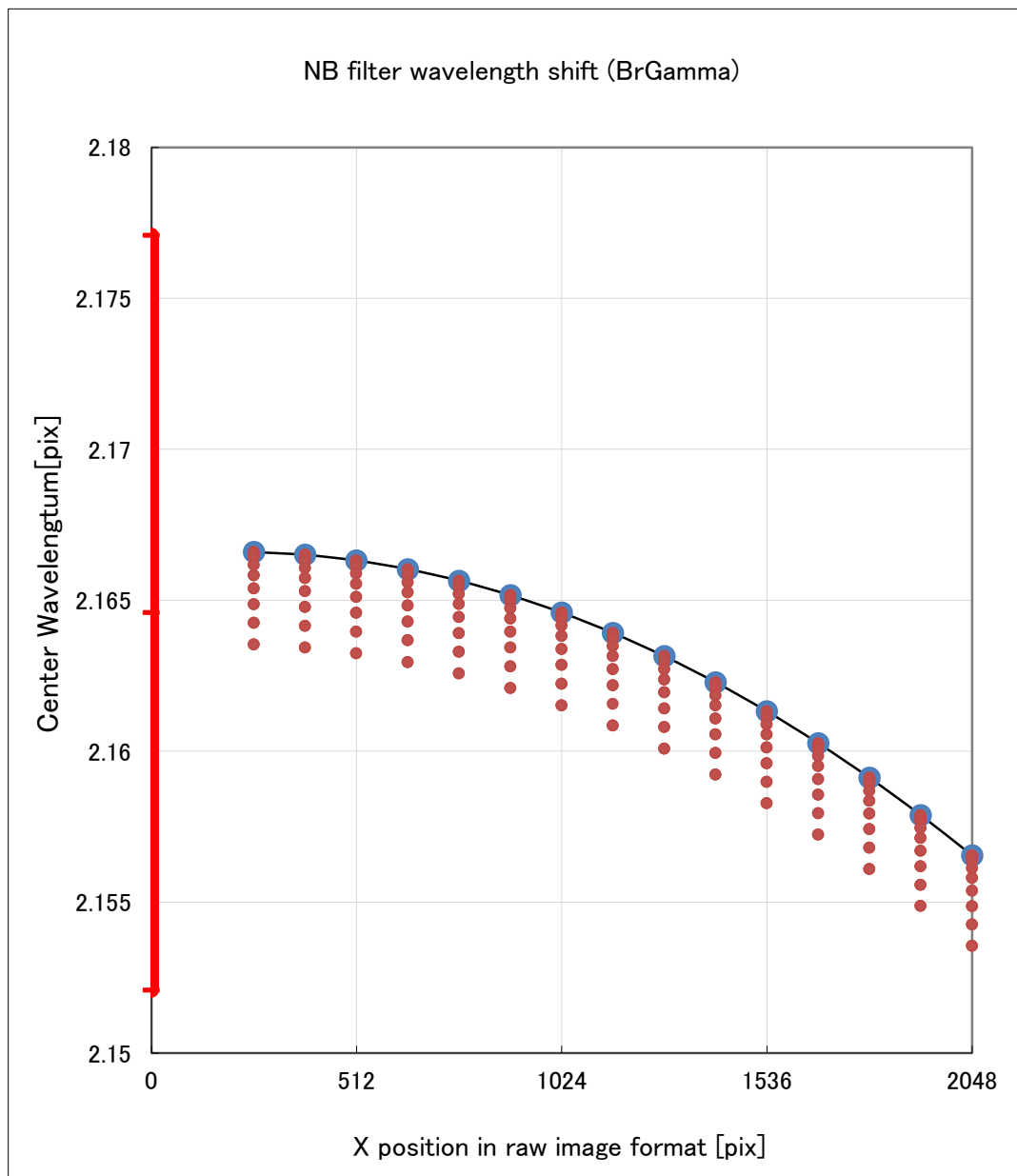
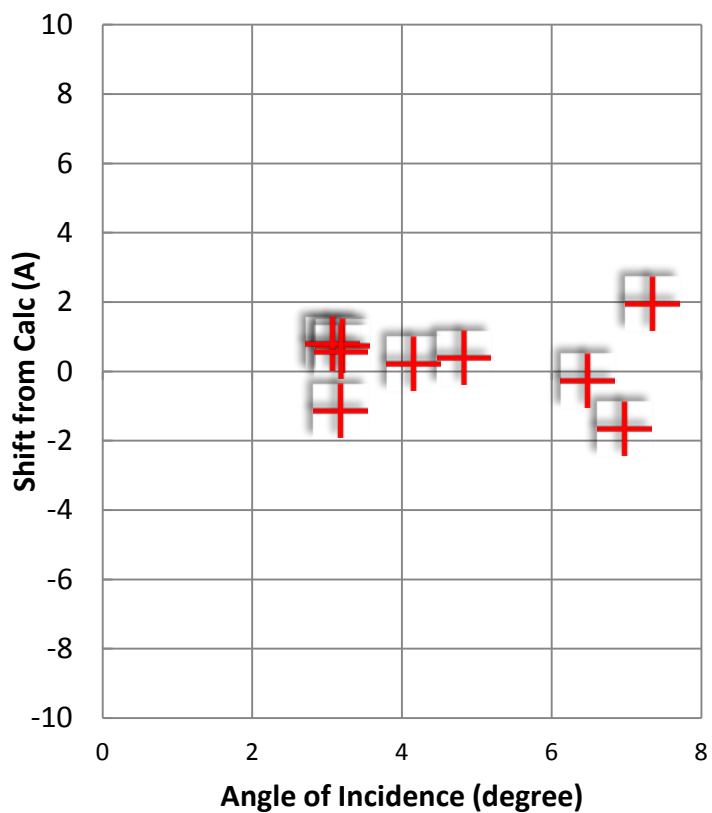


## BrG

CW=21646A

BW=250A

Ch1 & Ch2 same.



## Kcont

CH2:

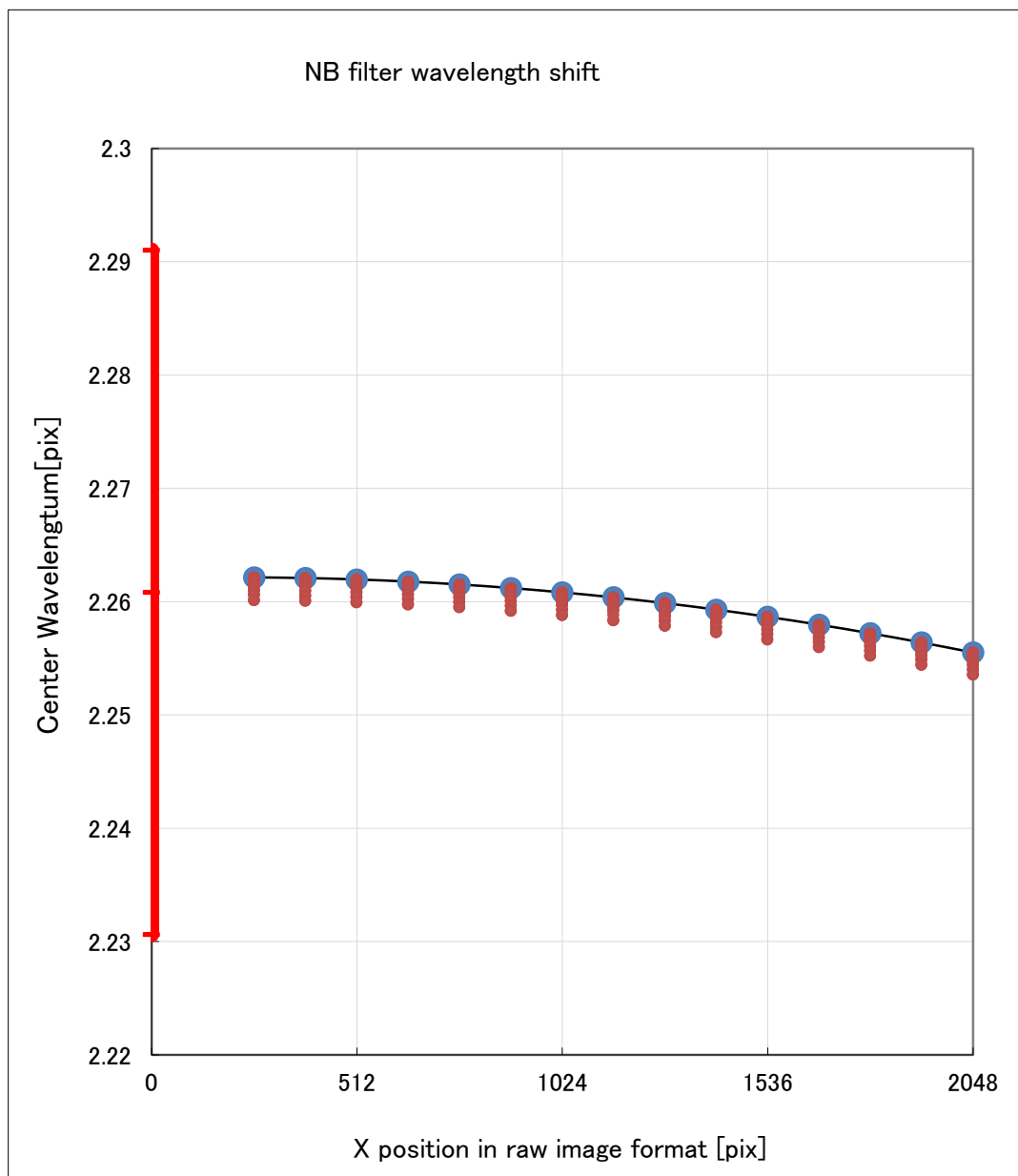
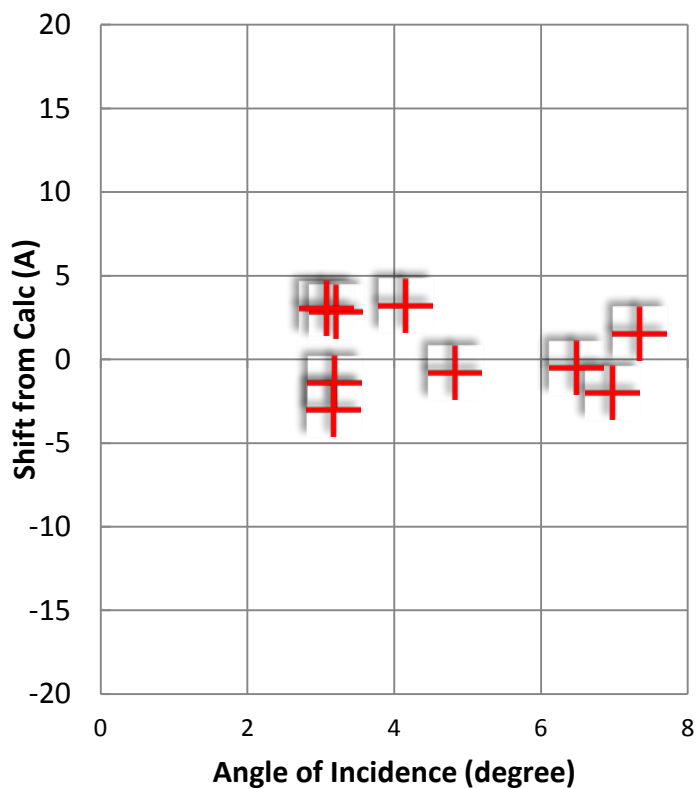
CW=22608A

BW=604A

CH1:

CW=22463A

BW=620A

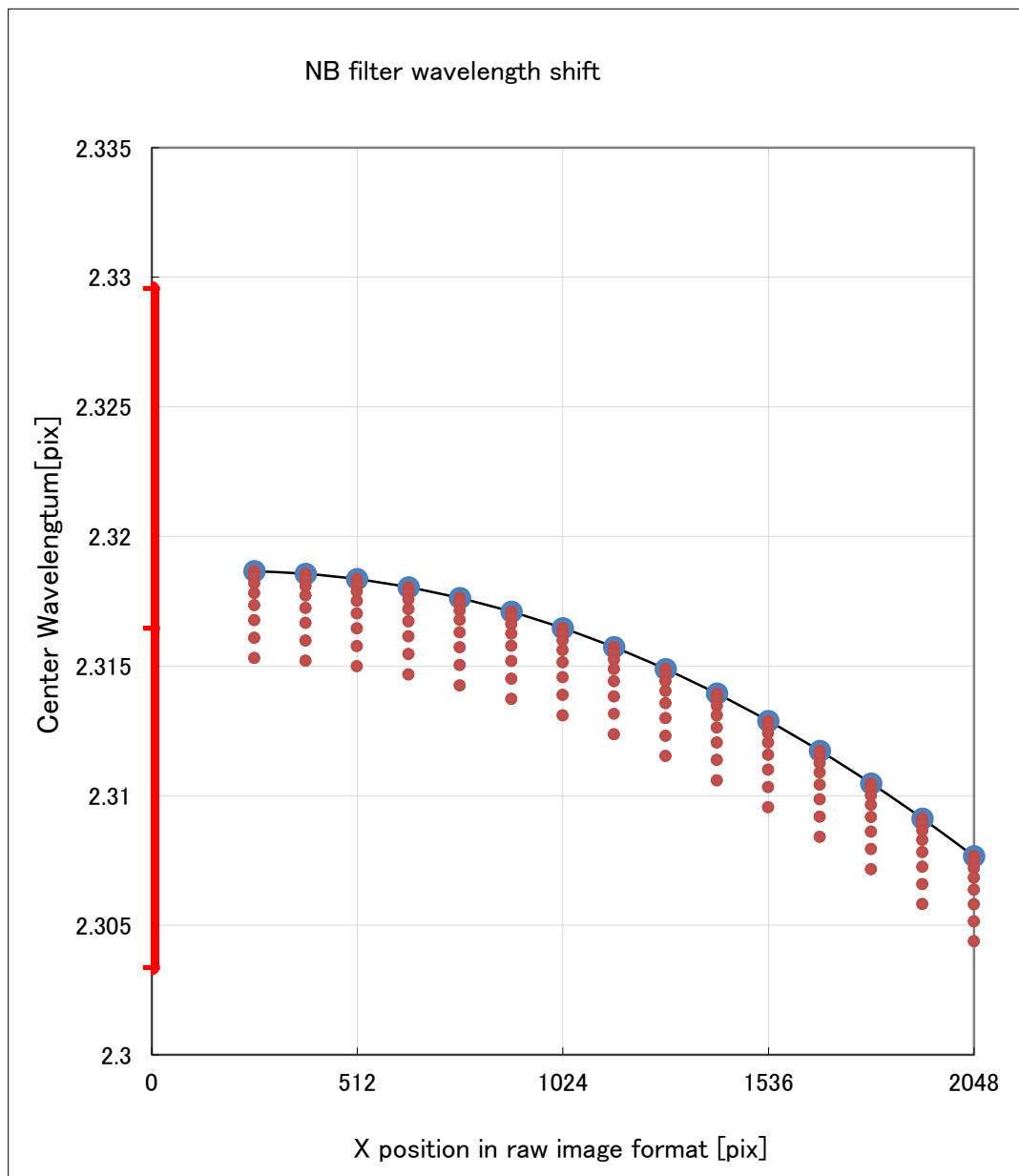
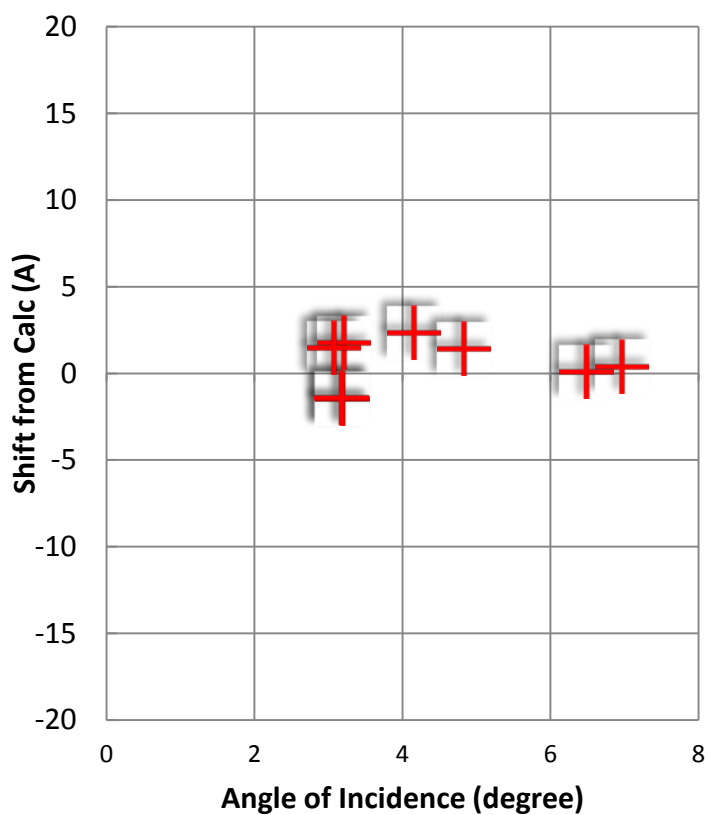


## NB2315

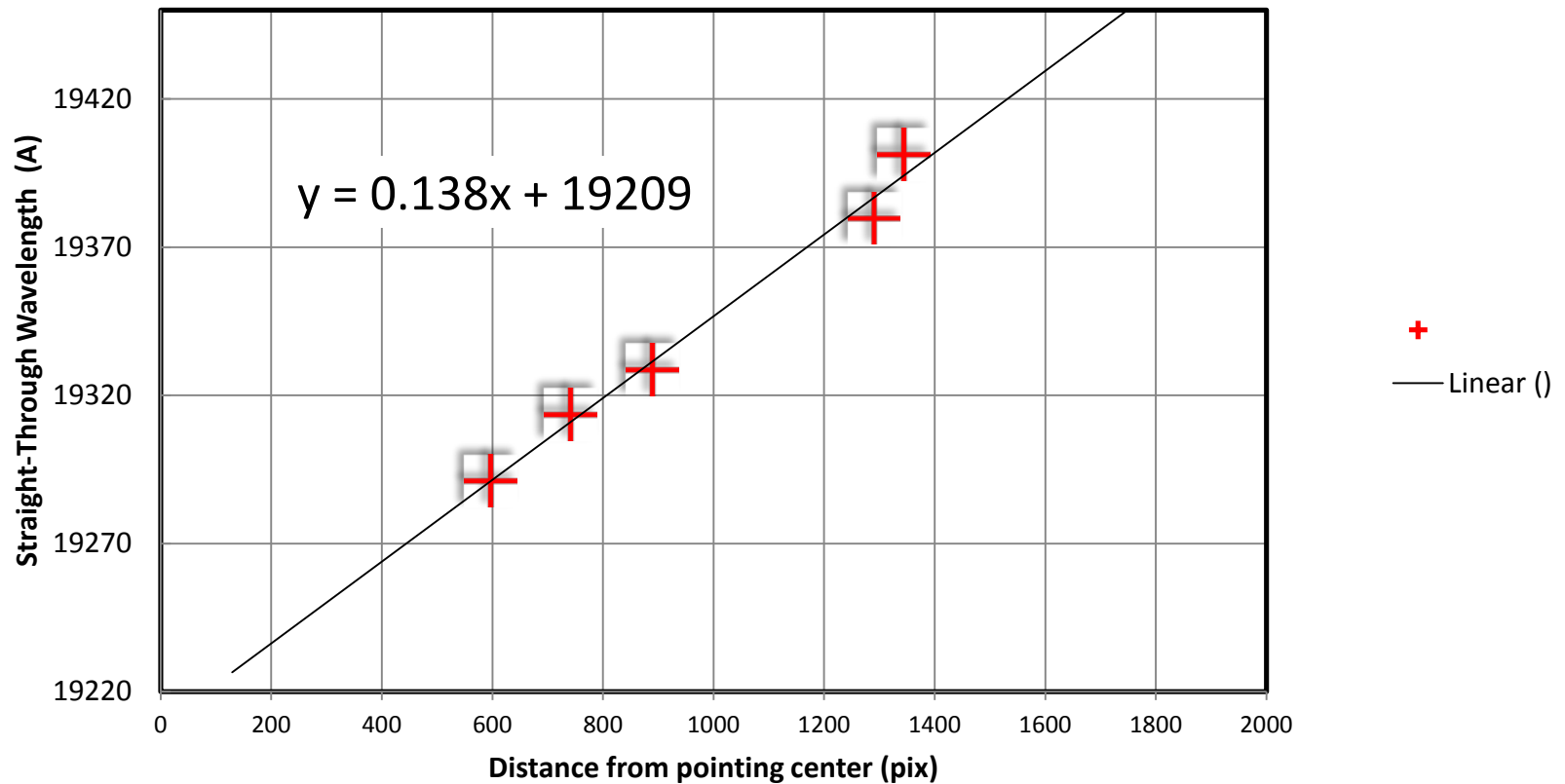
CW=23165Å

BW=262Å

Ch1 & Ch2 same.



# Shift of Straight-Through Wavelength (ch2 only: with HK500)



# 2013-11-21: New CO measurement

CO Ch2

CW=22923

BW=230

CO Ch1

CW=22979

BW=230

