

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11307 - L2 Version 2  
Chandra X-Ray Center

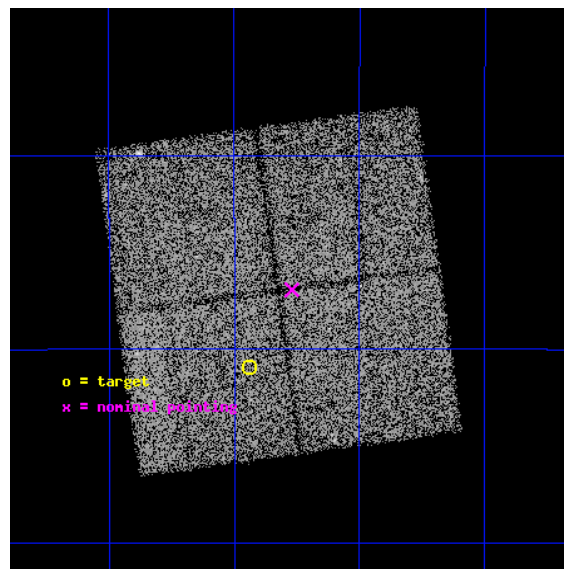
L2 Processing Date : Jun 25 2012

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# 1 Front

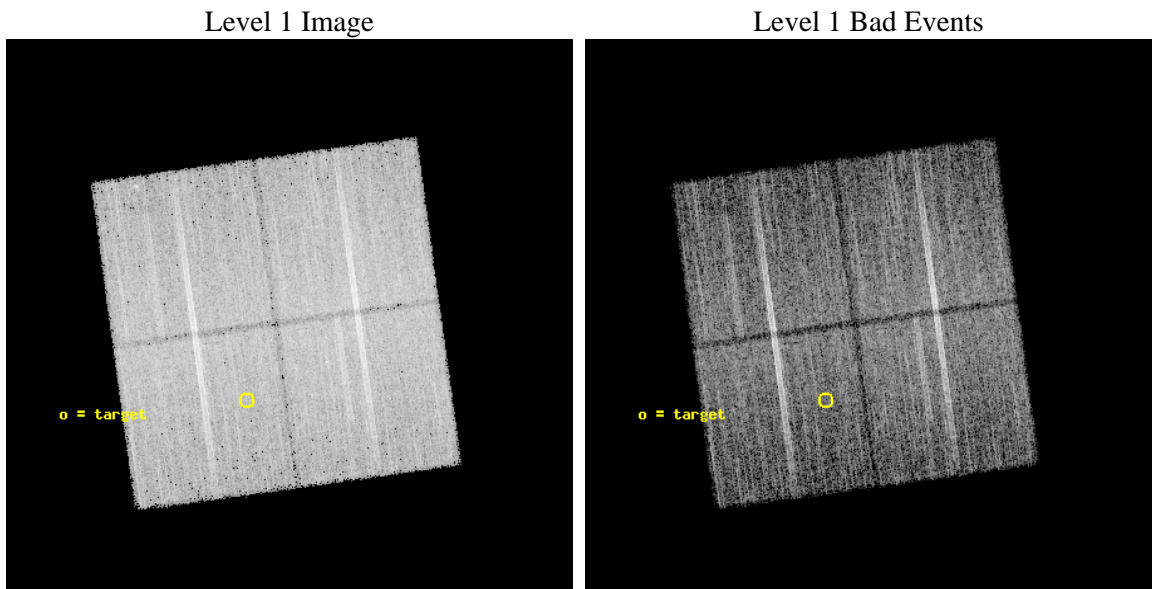
seq_num	600826	Sequence number
obs_id	11307	Observation id
title	The Deepest Stellar X-ray/optical Census of the Bulge	Proposal tit
observer	Dr William Clarkson	Principal investigator
object	SWEEPS_FIELD	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.735558	Observer's specified target RA [deg]
dec_targ	-29.18259	Observer's specified target Dec [deg]
ra_nom	269.69251131875	Nominal RA [deg]
dec_nom	-29.115620156415	Nominal Dec [deg]
roll_nom	82.124499112429	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20128.2182042	Sum of GTIs [s]
livetime	19865.228215184	Livetime [s]
ontime0	20134.500154853	Sum of GTIs [s]
ontime1	20128.2182042	Sum of GTIs [s]
ontime2	20134.500154853	Sum of GTIs [s]
ontime3	20134.500154853	Sum of GTIs [s]
l2events	70783	Number of level 2 events



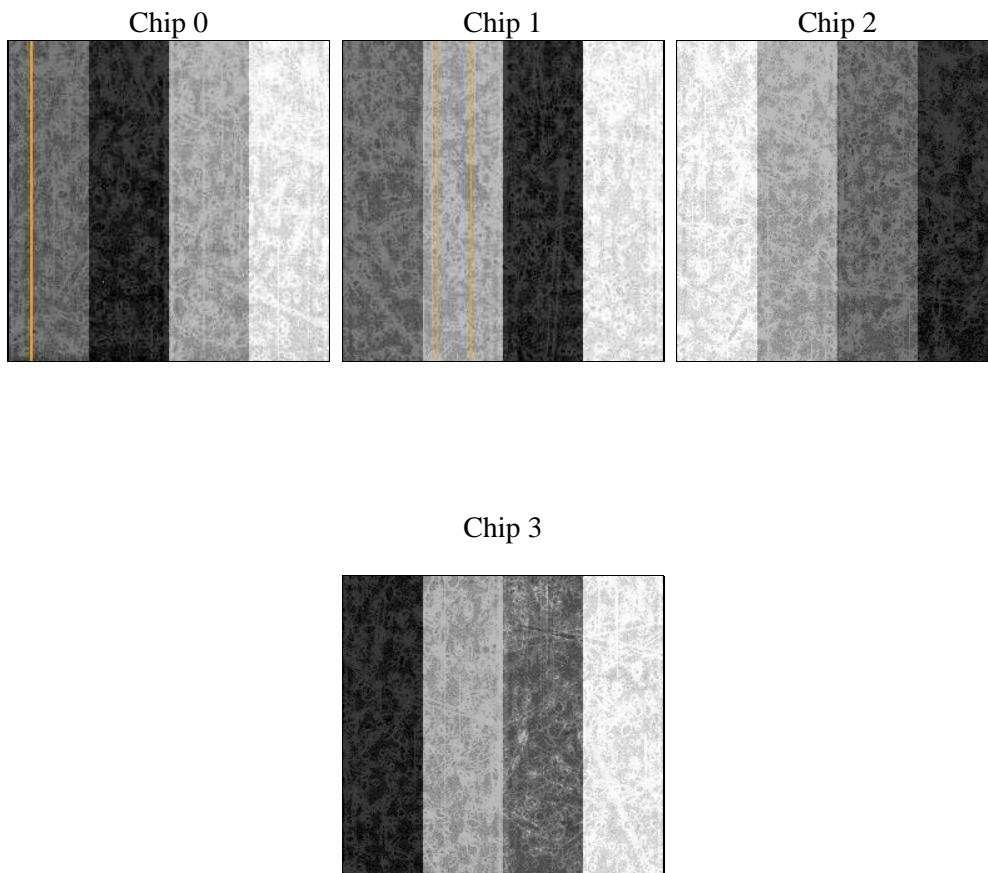
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20128.2182042	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	20134.500154853	Sum of GTIs [s]
date	2012-06-26T00:26:32	Date and time of file creation	ontime1	20128.2182042	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20134.500154853	Sum of GTIs [s]
			ontime3	20134.500154853	Sum of GTIs [s]
			l1events	626918	Number of level 1 events

### 2.1.4 Events

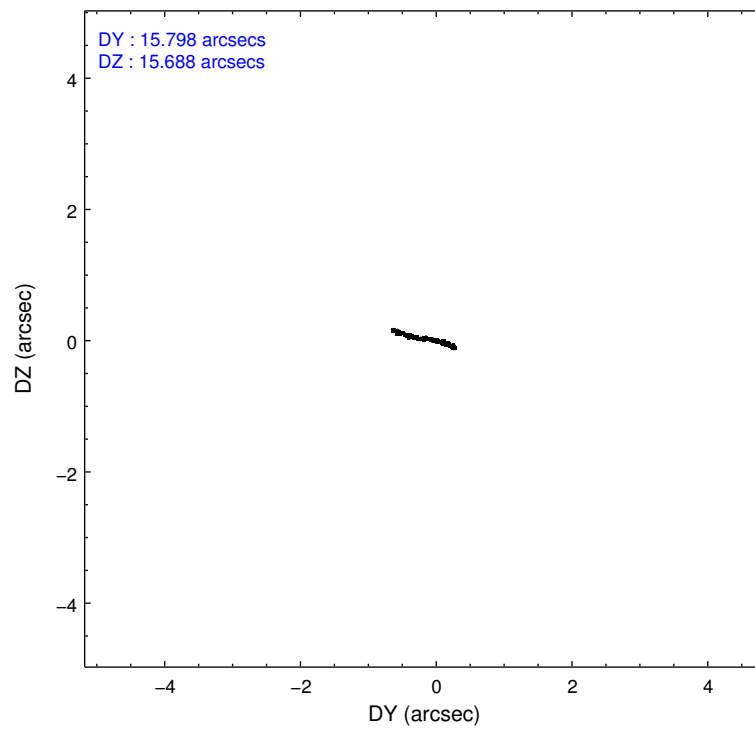
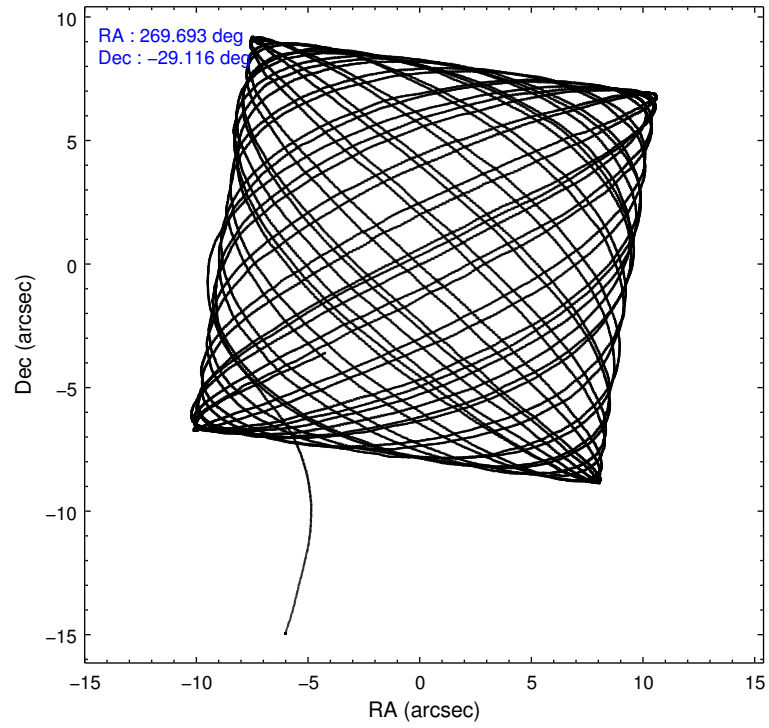
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	151978	149320	163492	162128
rejected events	131077	126987	143553	142524
rejected %	86%	85%	87%	87%

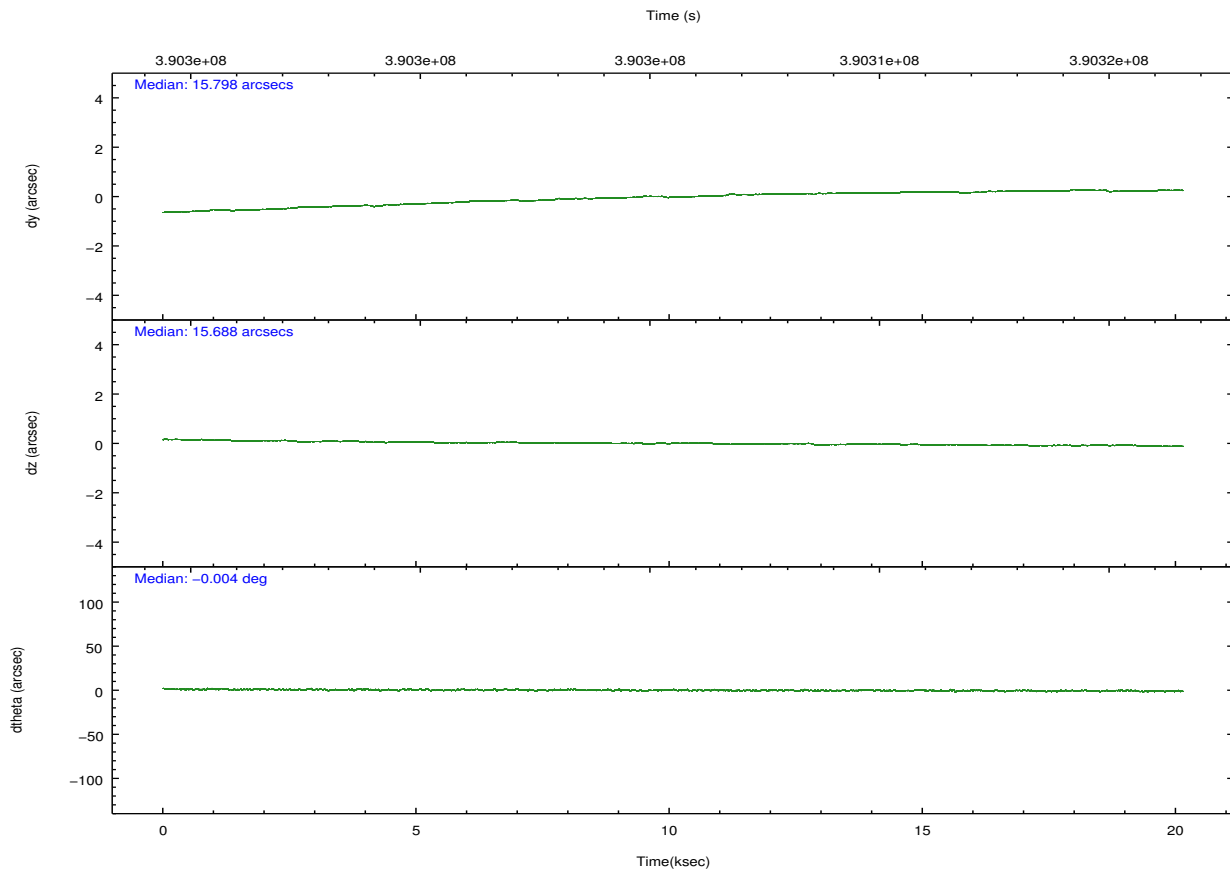
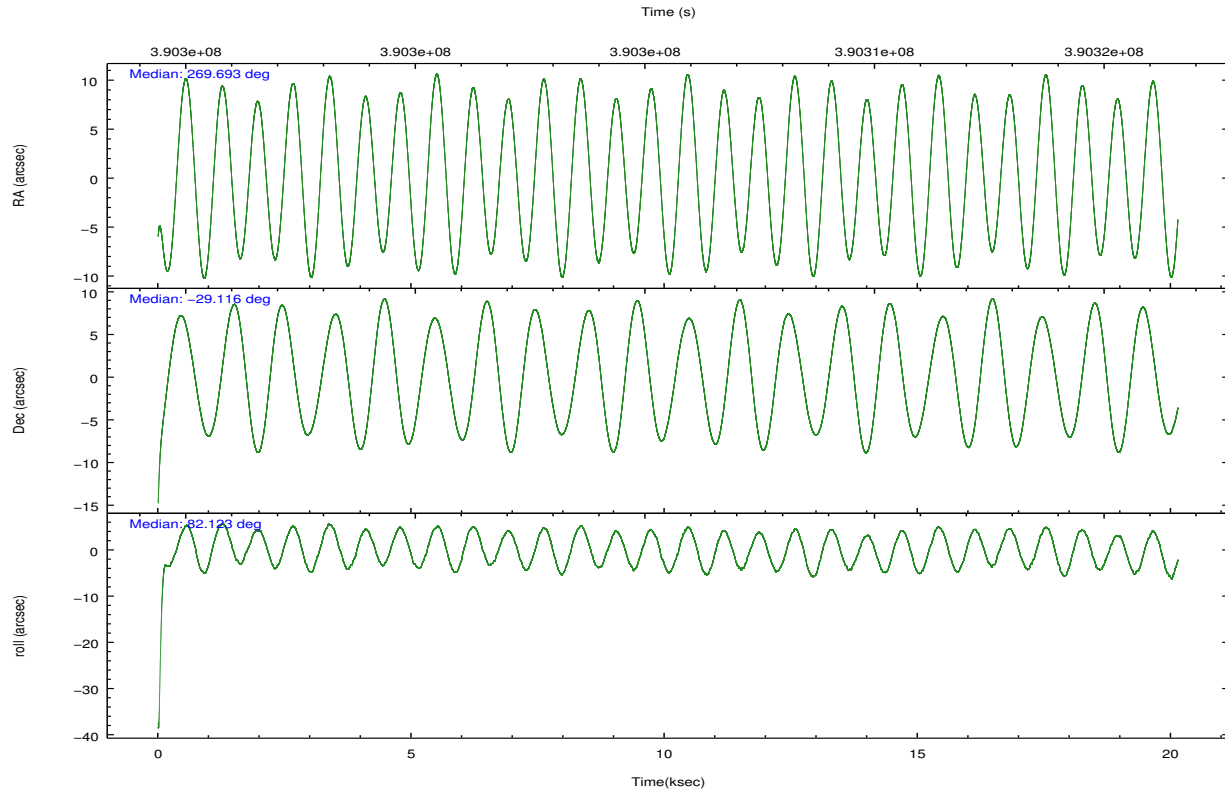
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9726	10193	9360	9212
	6%	6%	5%	5%
grade 1 events	96	102	123	109
	0%	0%	0%	0%
grade 2 events	4552	4776	4459	3931
	2%	3%	2%	2%
grade 3 events	2022	1981	1782	1895
	1%	1%	1%	1%
grade 4 events	1866	2145	1820	1837
	1%	1%	1%	1%
grade 5 events	6127	6860	6035	7095
	4%	4%	3%	4%
grade 6 events	3391	3971	3158	3340
	2%	2%	1%	2%
grade 7 events	124198	119292	136755	134709
	81%	79%	83%	83%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	269.704522	269.6925113187506	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.141042	-29.11562015641508	Alternating exposures requested	N	N
[deg] Pointing Roll	81.921678	82.12449911242861	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	390295573.184000	390294315.61287			
Observation start date	2010-05-15T07:25:07	2010-05-15T07:05:15			
[s] Observation end time (MET)	390315573.184000	390316586.814			
Observation end date	2010-05-15T12:58:27	2010-05-15T13:16:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect



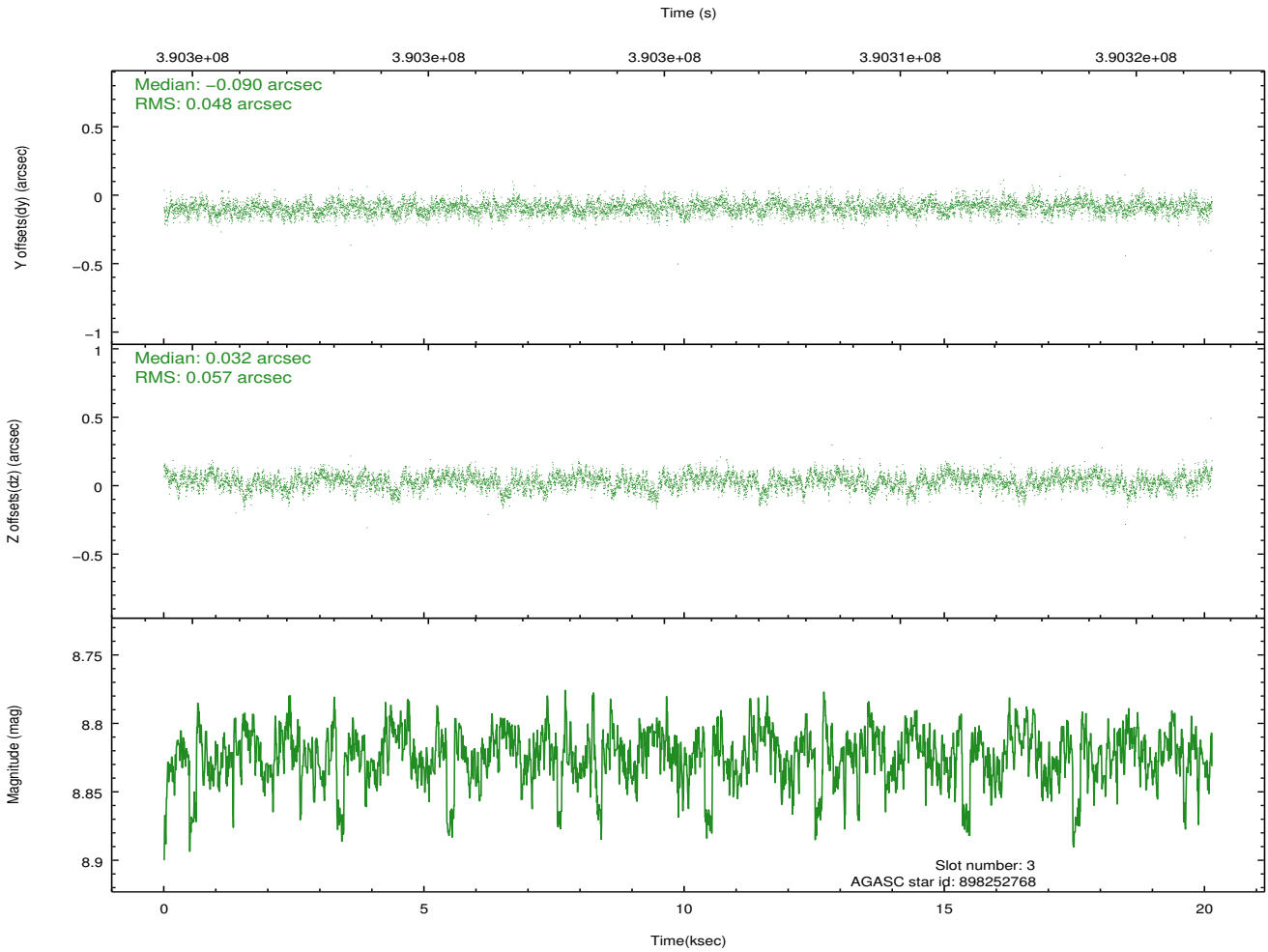
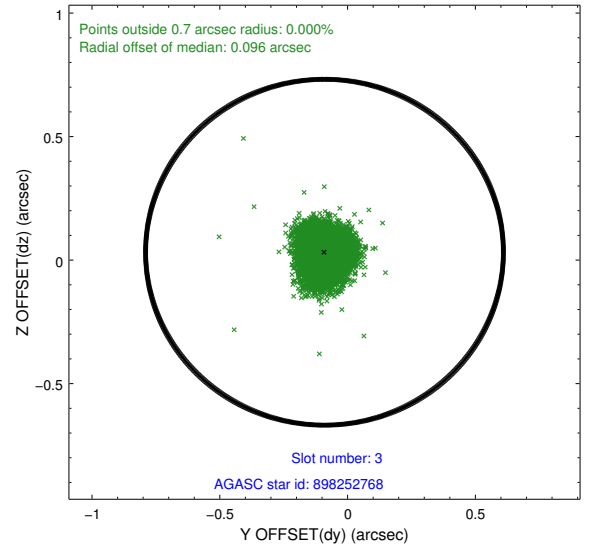
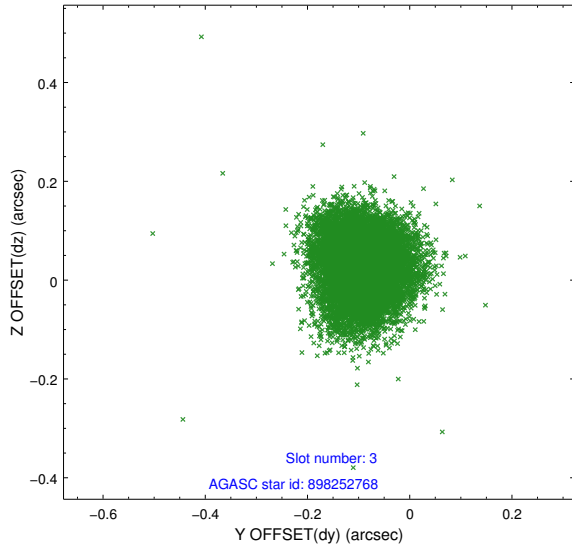


### Slot Statistics

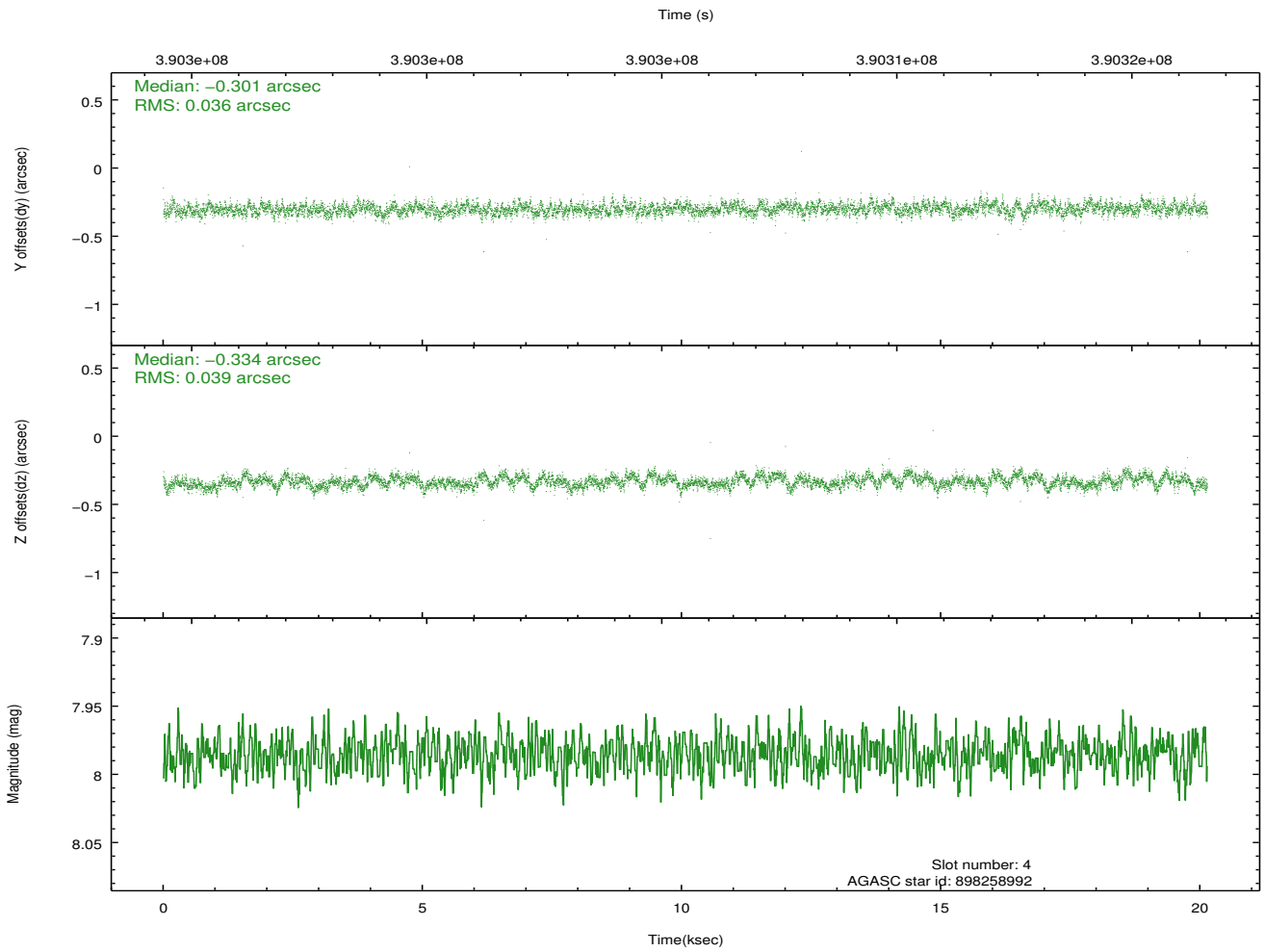
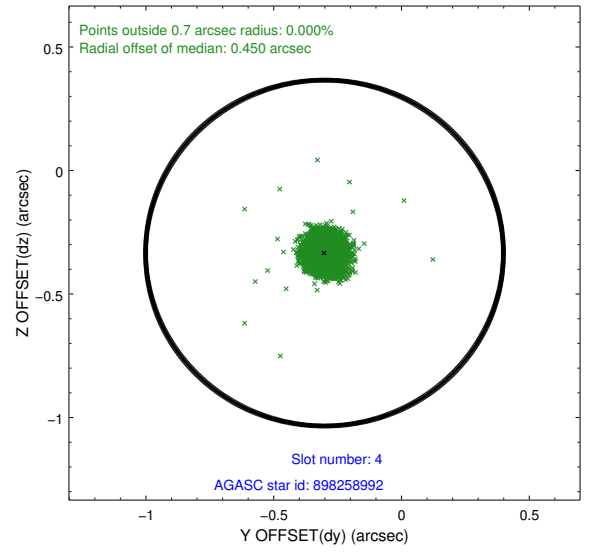
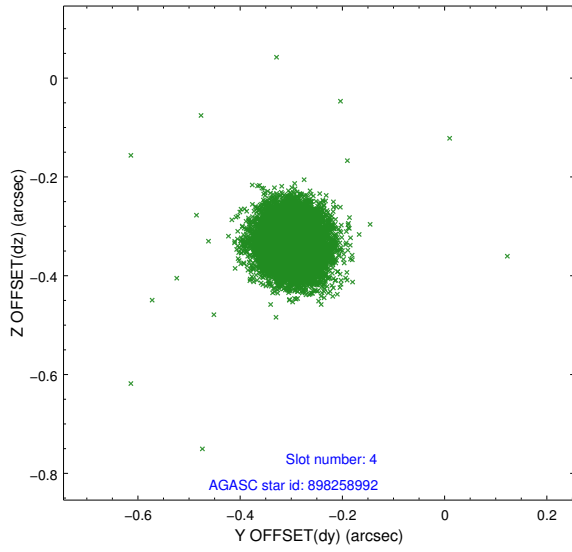
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	4913	0.075	-0.021	0.009	0.017	0.000000	0.000000	923.81	-839.30
1	FID	ACIS-I-2	6.93	4913	-0.034	-0.045	0.013	0.022	0.000000	0.000000	-770.28	-845.91
2	FID	ACIS-I-5	7.00	4913	-0.134	0.138	0.008	0.014	0.000000	0.000000	-1824.81	1058.17
3	GUIDE	898252768	8.82	9806	-0.090	0.032	0.078	0.126	269.910789	-28.705322	1644.34	-424.34
4	GUIDE	898258992	7.99	9822	-0.301	-0.334	0.055	0.088	269.435214	-28.570389	1913.62	1131.38
5	GUIDE	898383760	8.23	9821	0.262	0.135	0.062	0.102	270.301358	-29.342458	-459.15	-1956.51
6	GUIDE	898398488	7.81	9824	0.061	0.045	0.058	0.091	270.116283	-29.824370	-2256.64	-1619.49
7	GUIDE	898402144	8.24	9820	0.067	0.125	0.058	0.093	270.208935	-29.851667	-2314.65	-1919.45

## 2.4 Star Slots

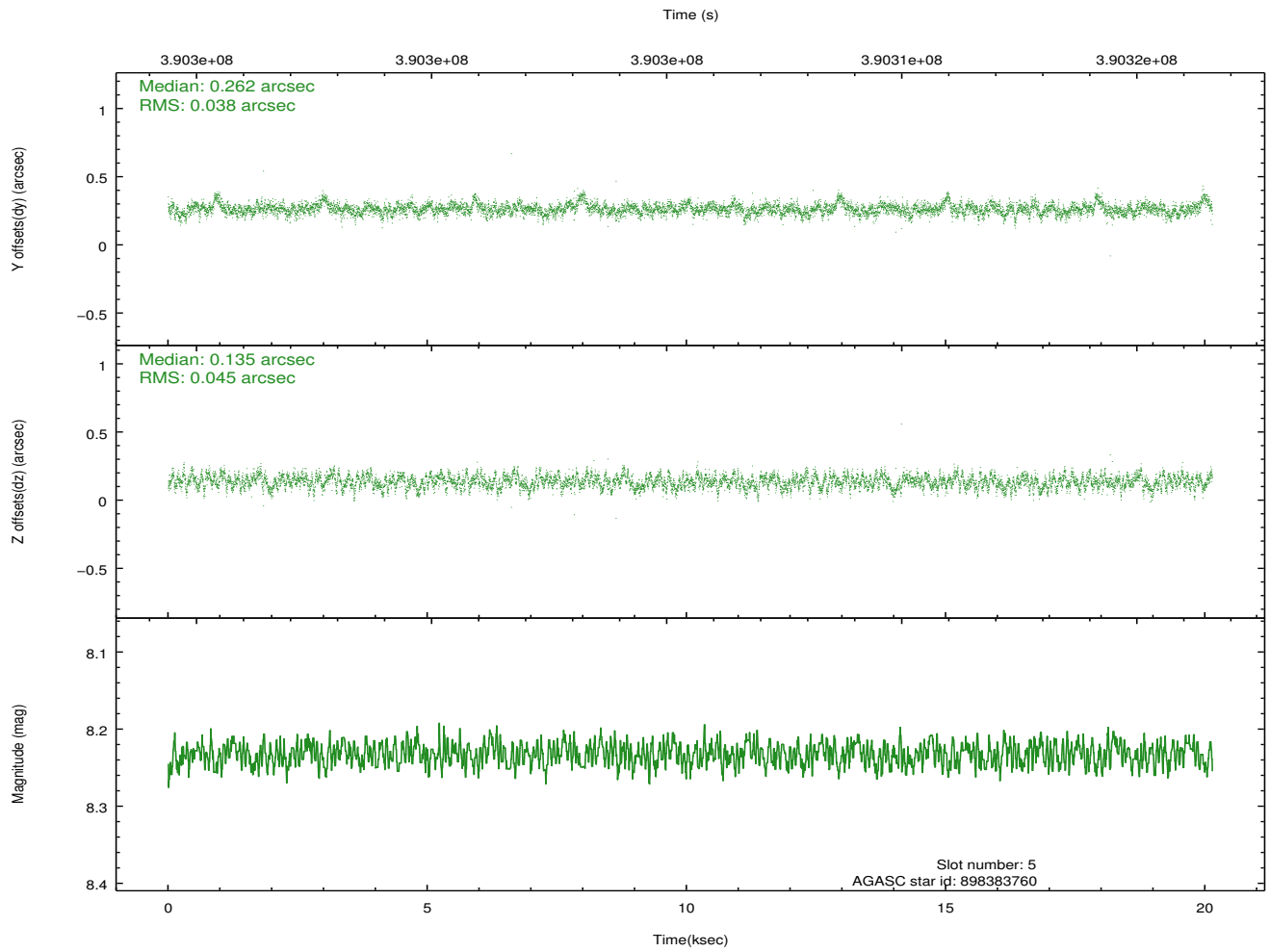
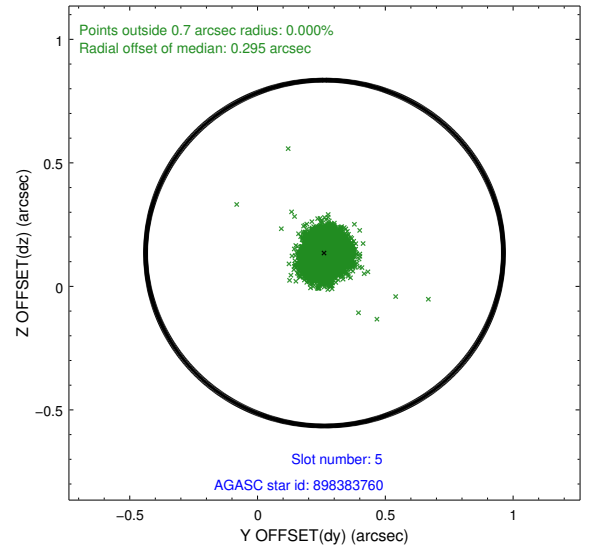
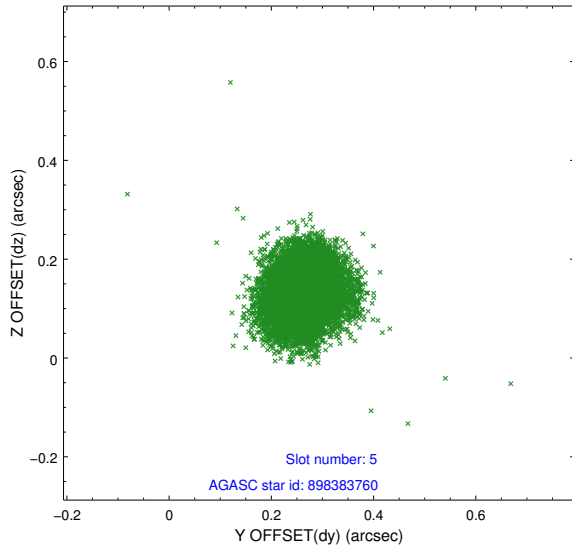
### 2.4.1 Slot 3



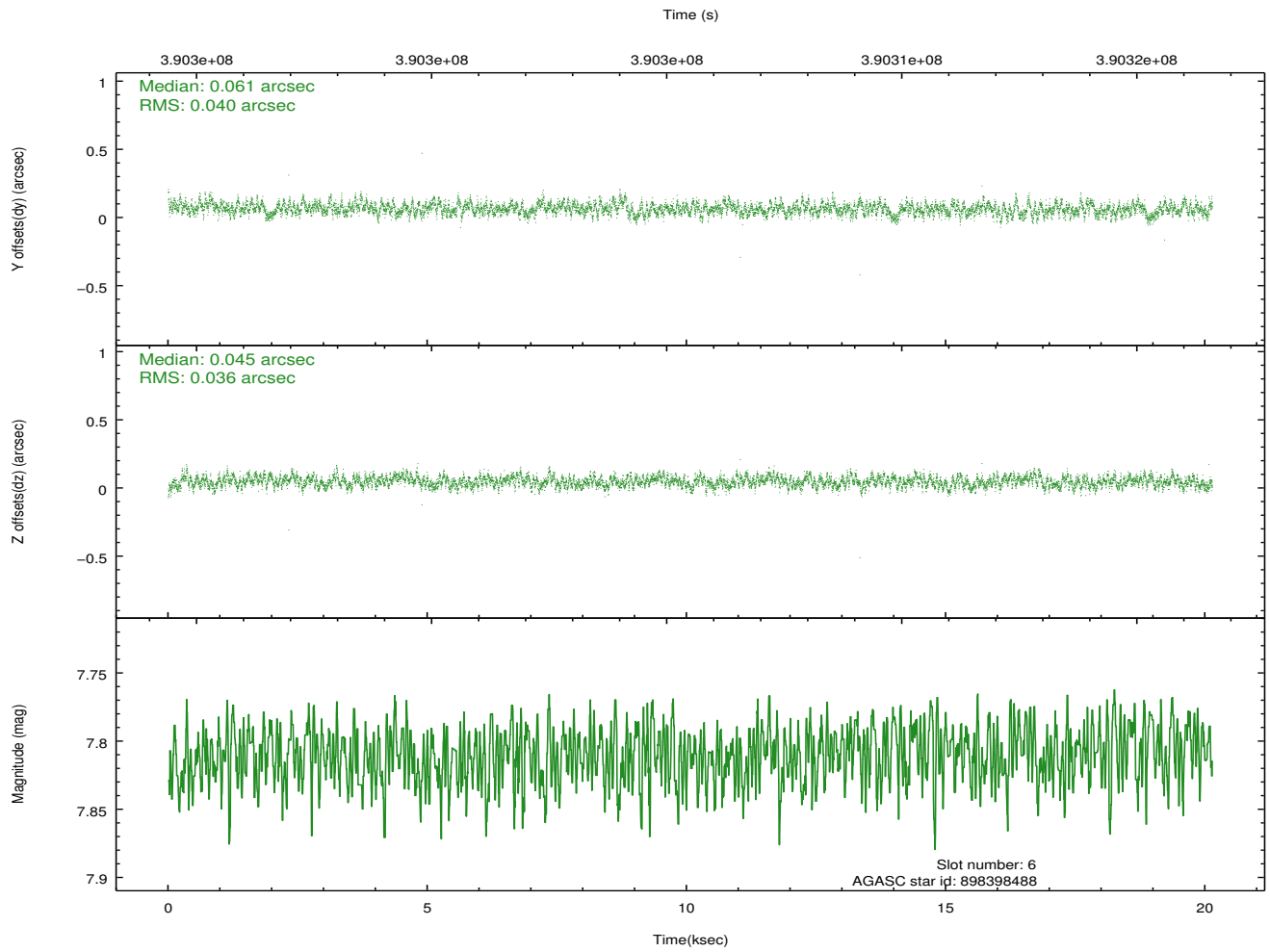
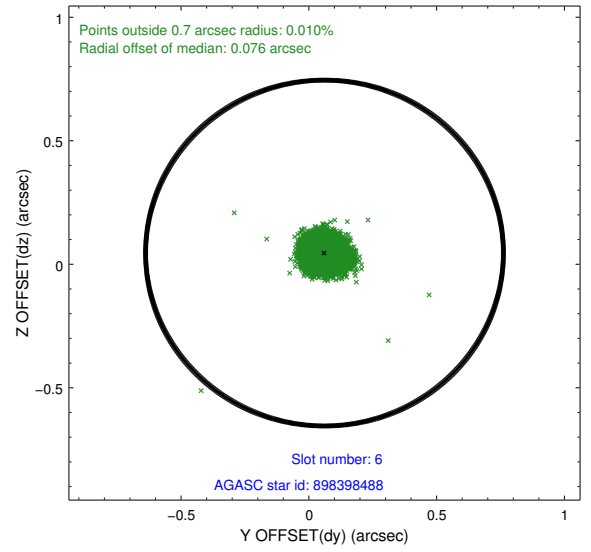
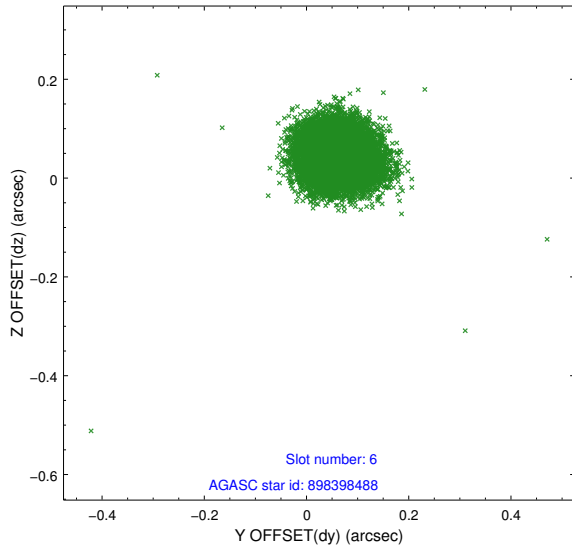
### 2.4.2 Slot 4



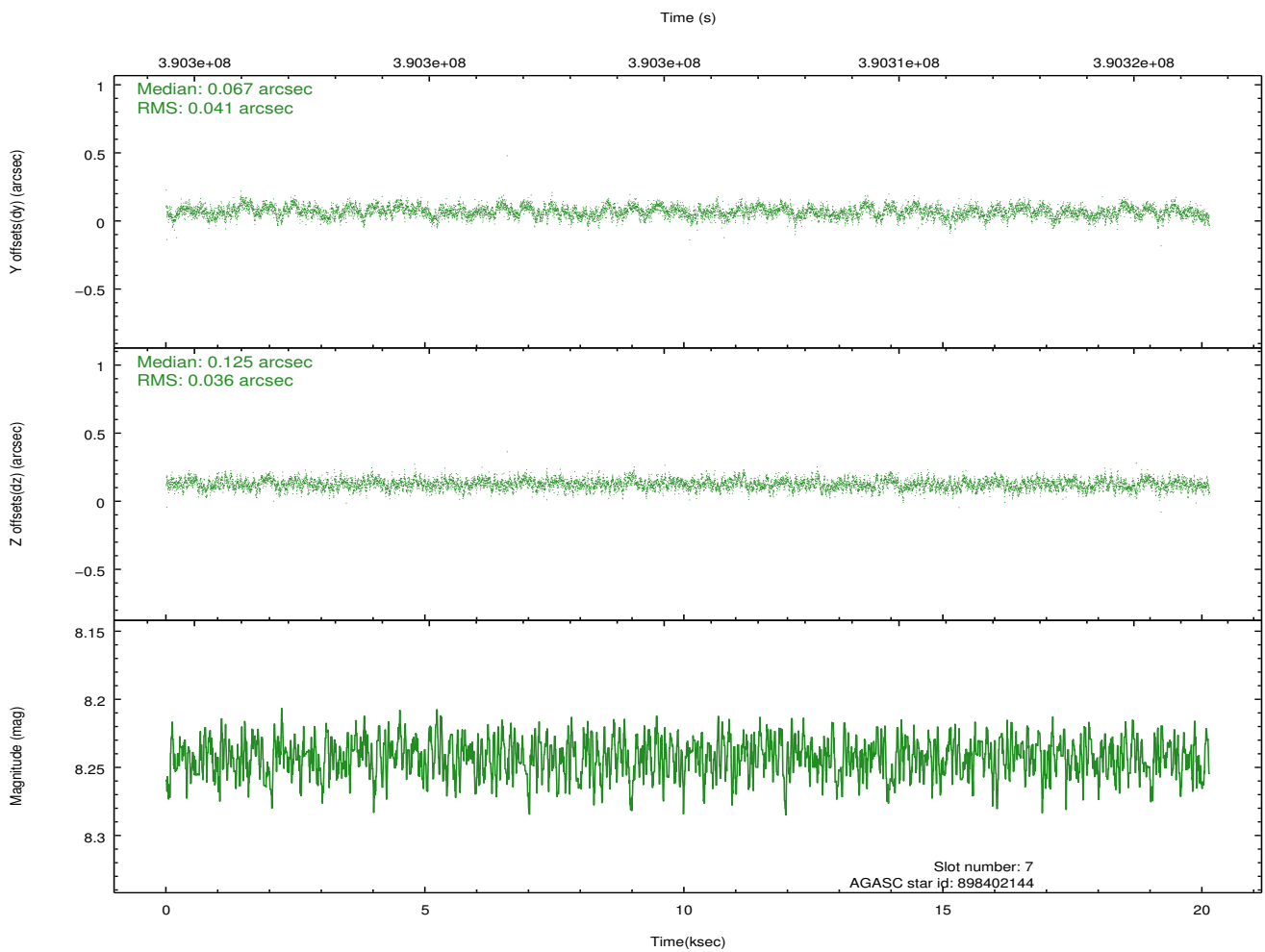
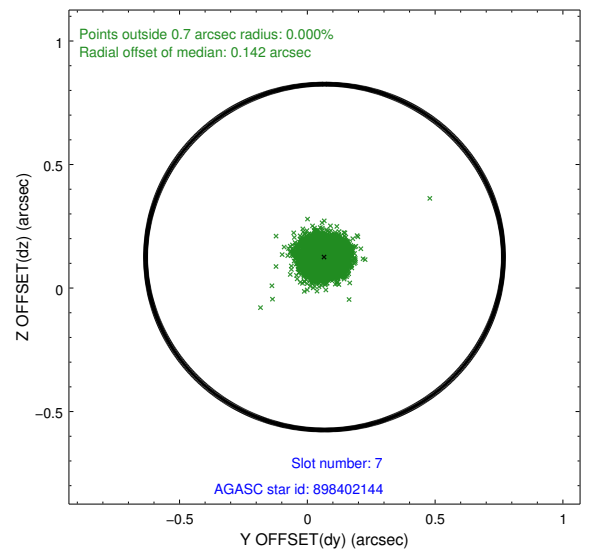
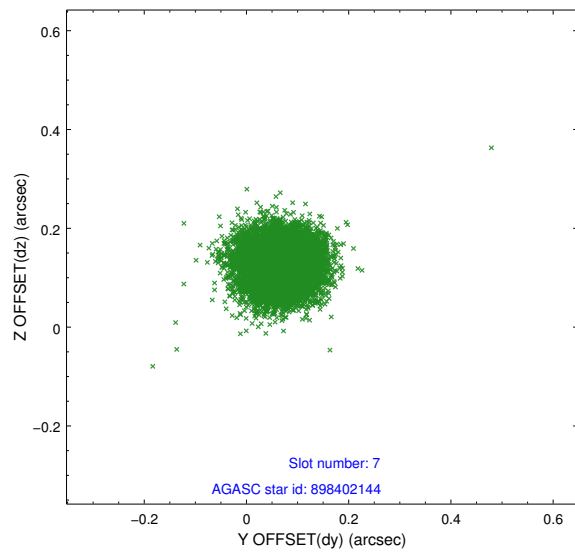
### 2.4.3 Slot 5



### 2.4.4 Slot 6

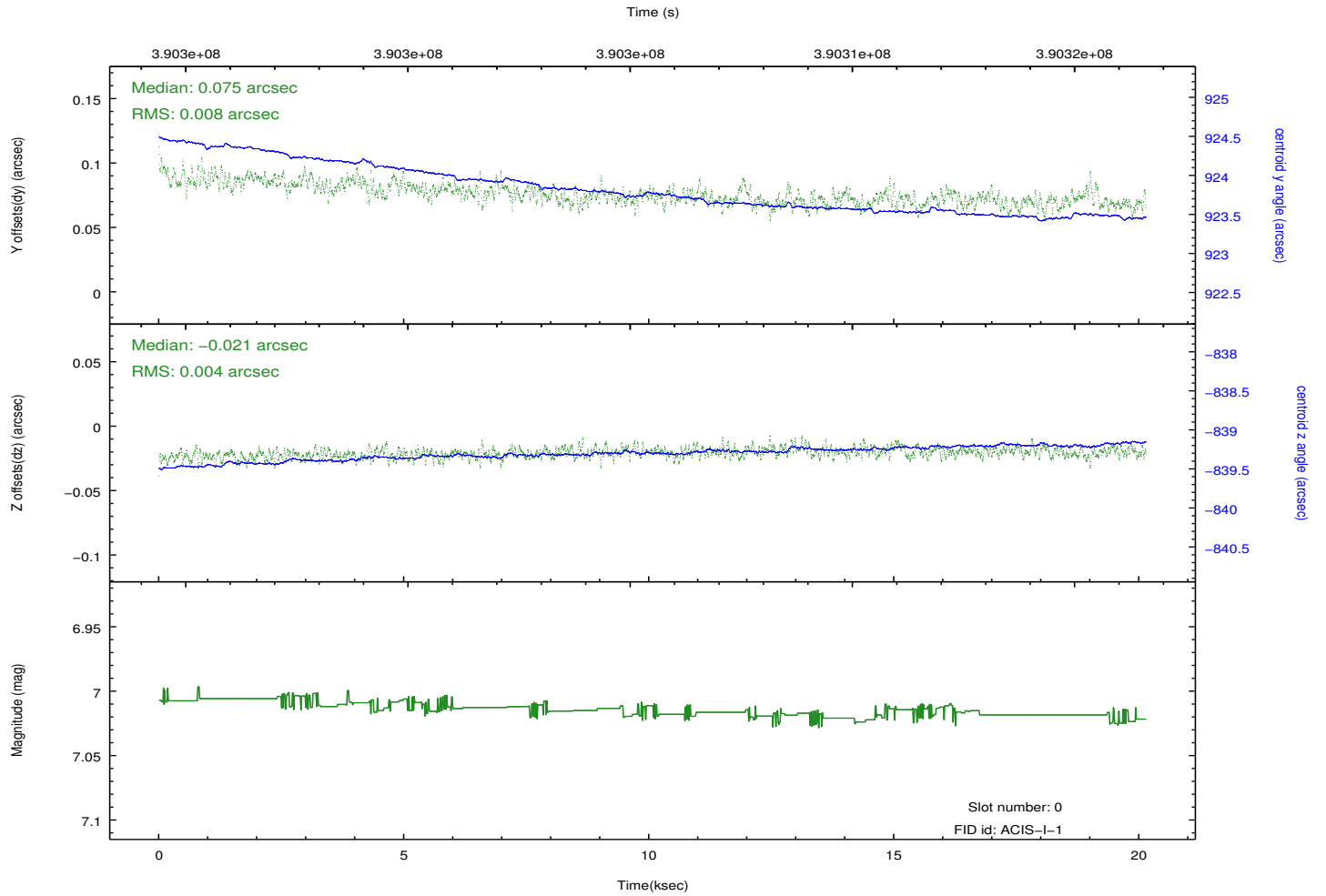
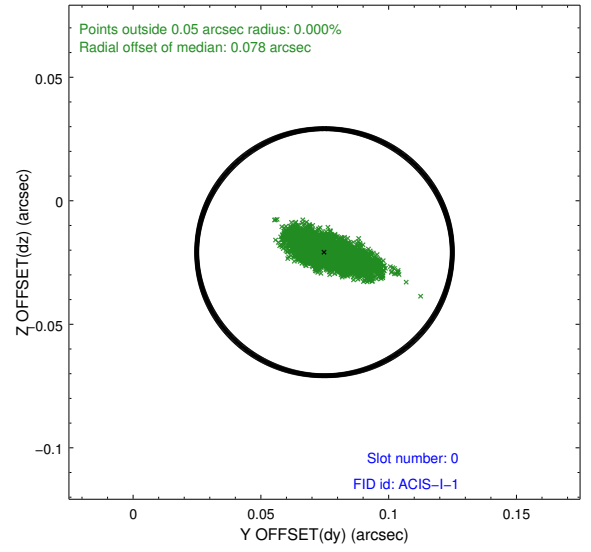
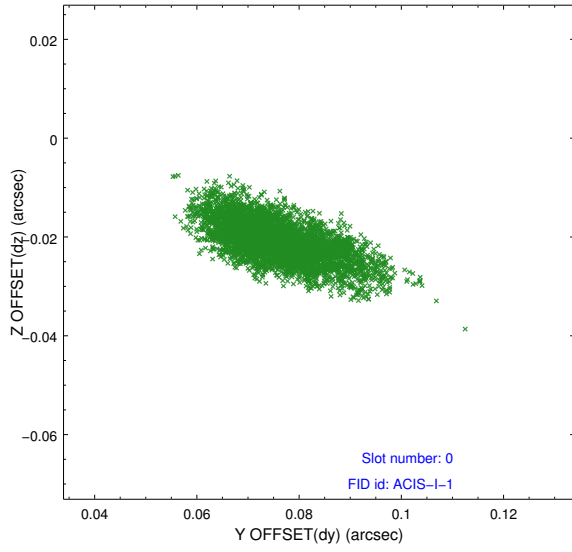


## 2.4.5 Slot 7

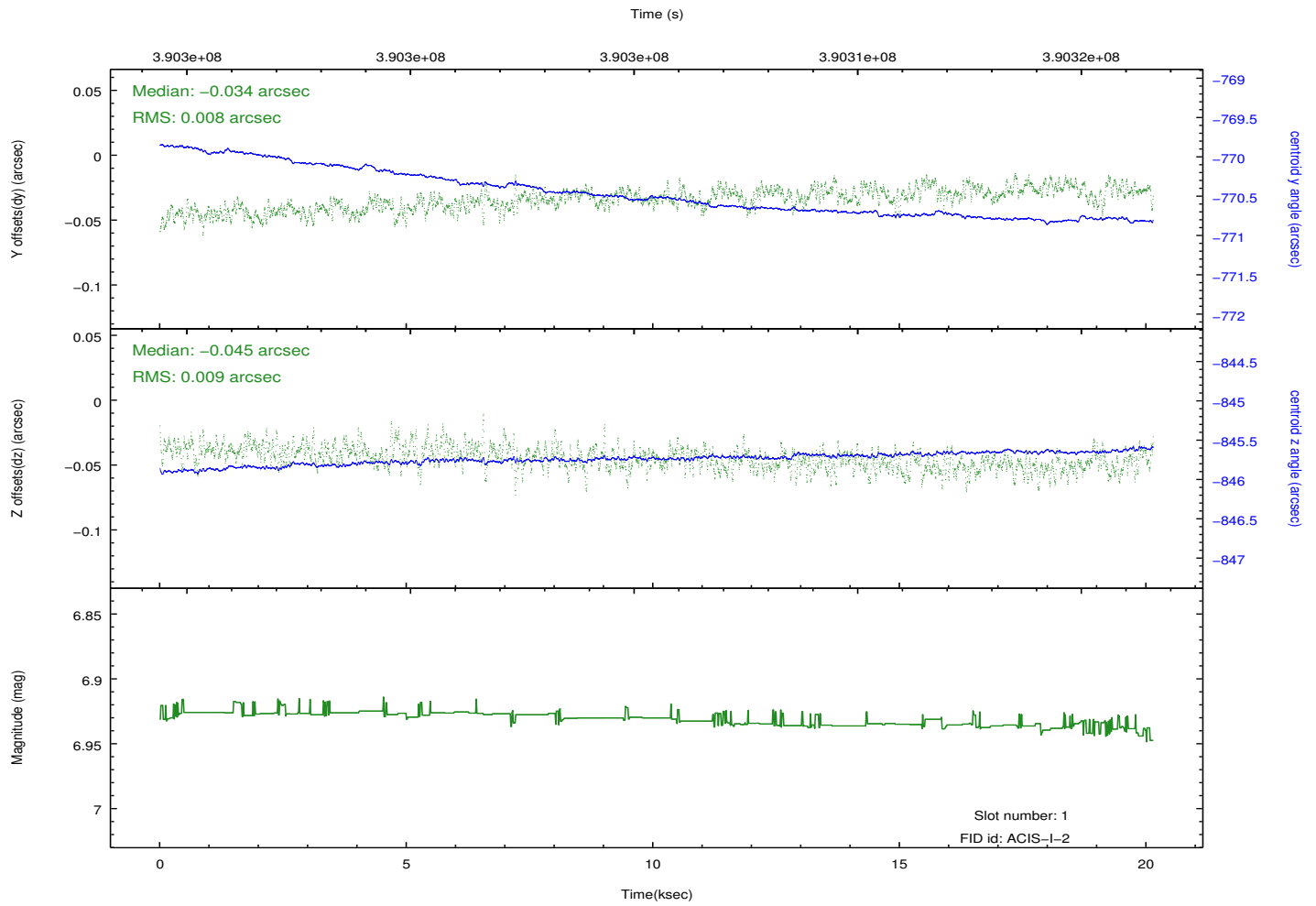
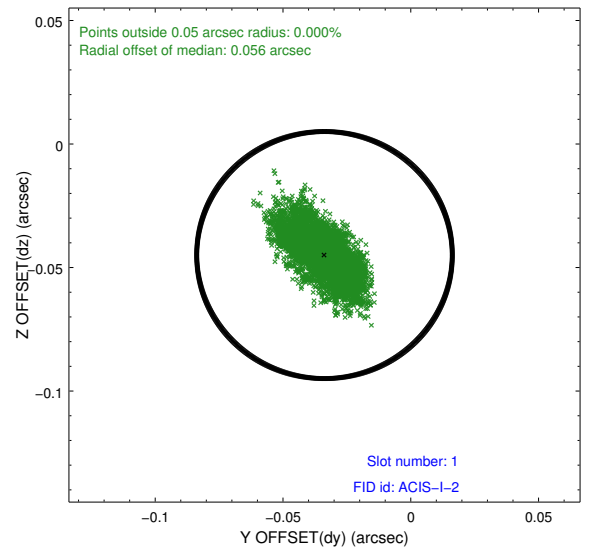
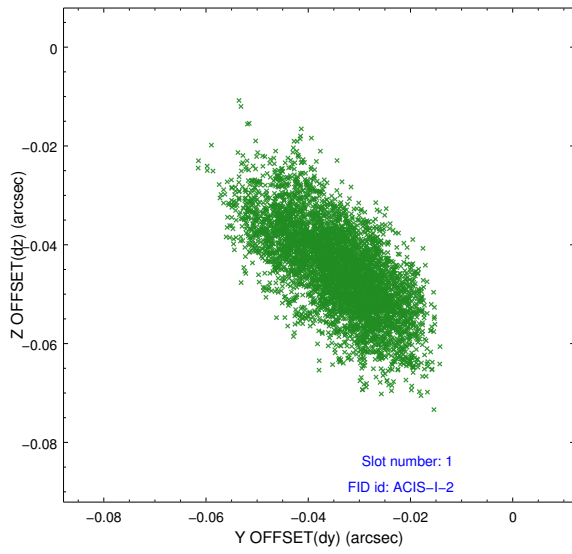


## 2.5 FID Slots

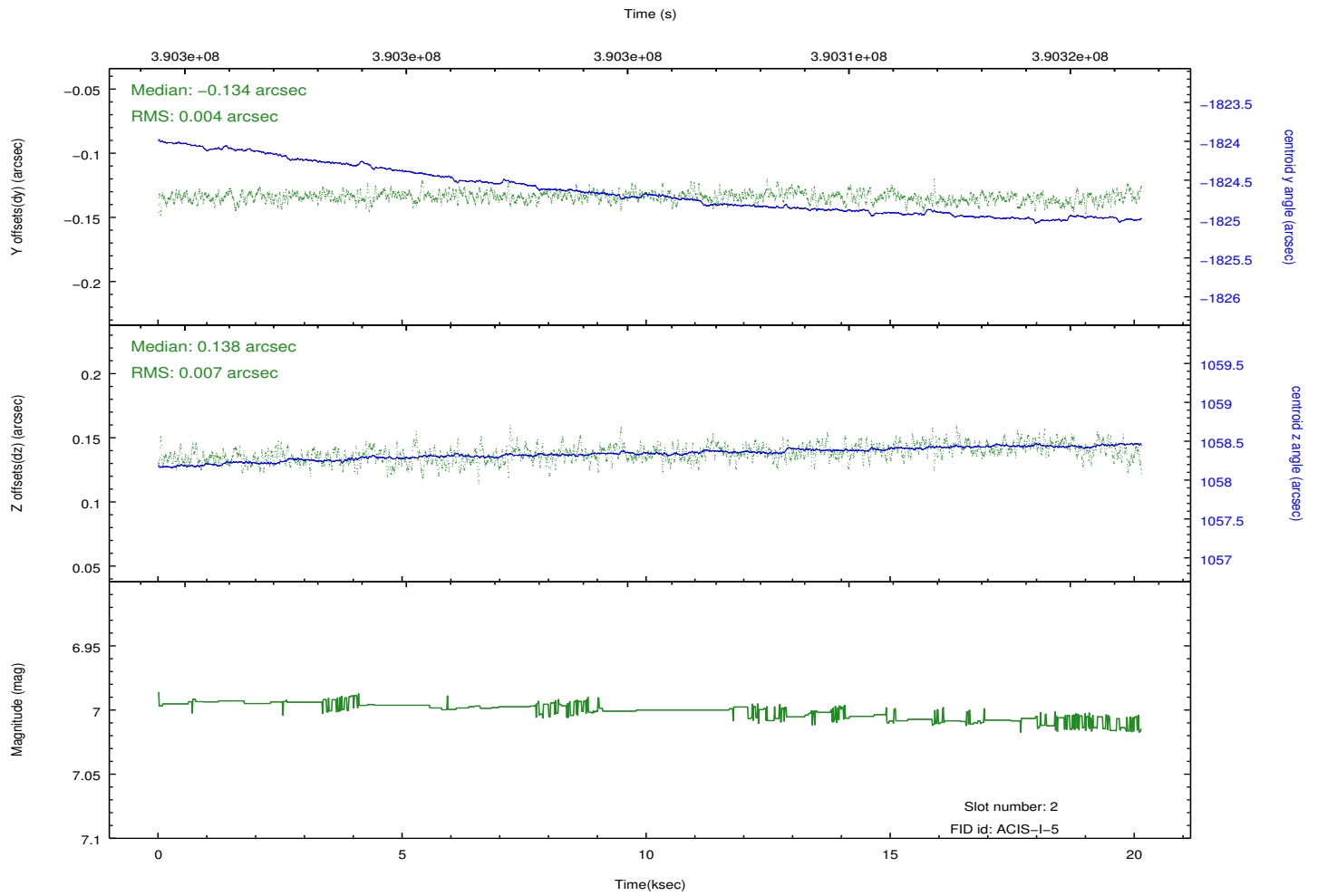
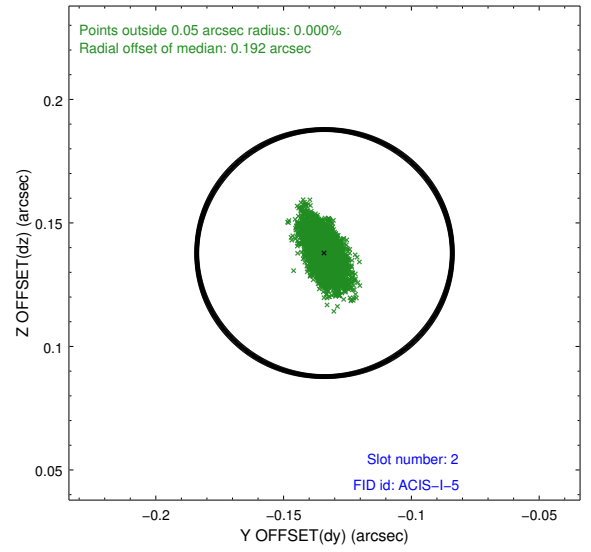
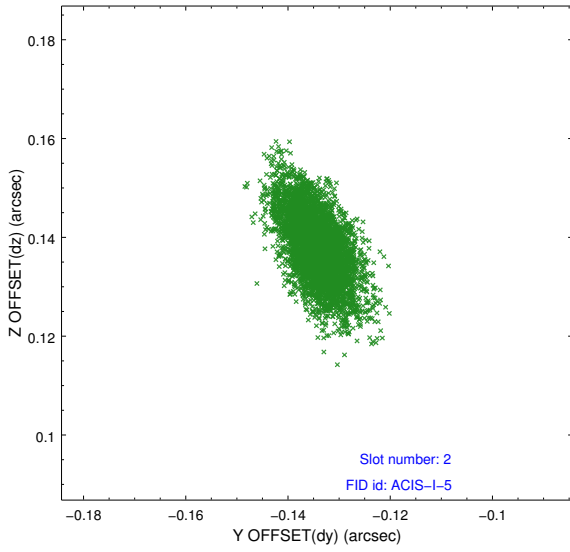
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.128218204081

## A.2 Comments

Joint proposal with HST.