

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 15018 - L2 Version 2  
Chandra X-Ray Center

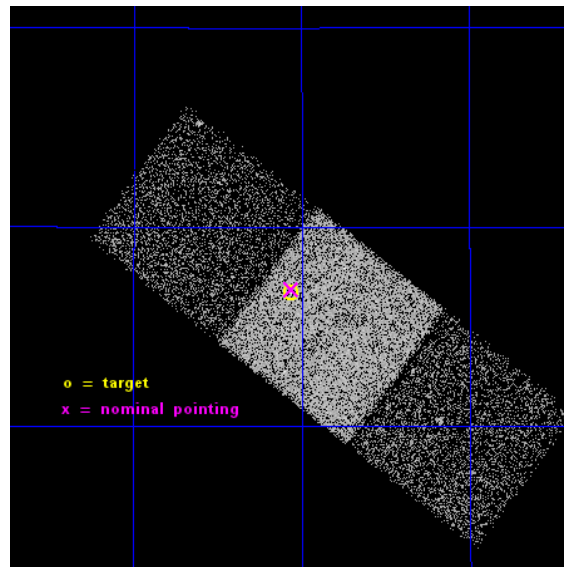
L2 Processing Date : Dec 6 2014

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# 1 Front

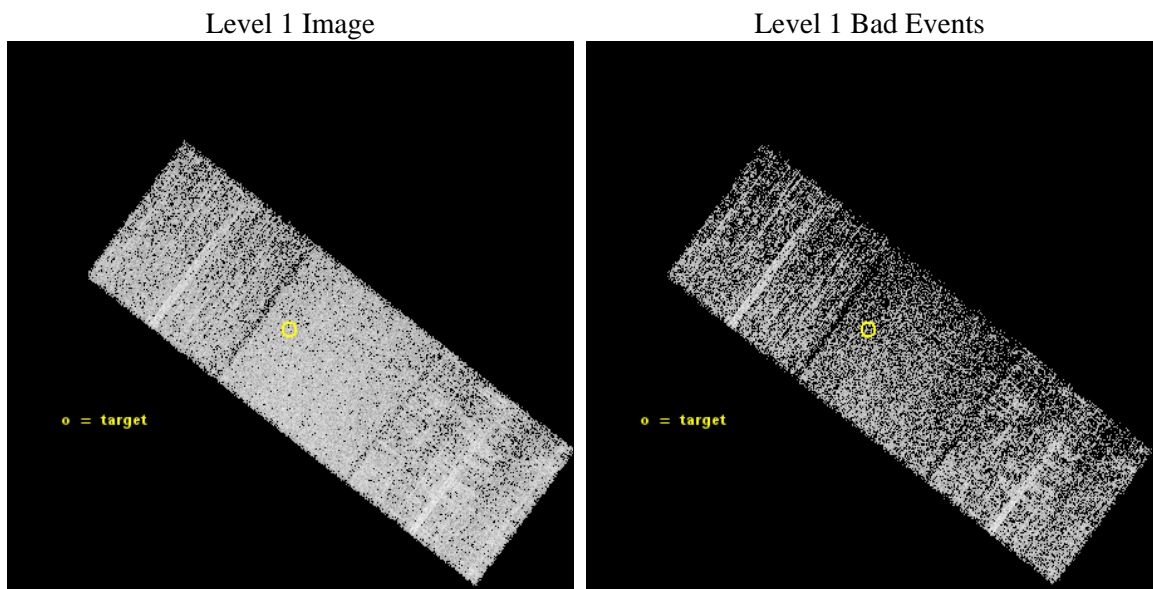
seq_num	702826	Sequence number
obs_id	15018	Observation id
title	Testing the slim disk scenario for active intermediate mass black holes	Proposal title
observer	Elena Gallo	Principal investigator
object	SDSS J083803.67+540642.2	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	129.515417	Observer's specified target RA [deg]
dec_targ	54.111694	Observer's specified target Dec [deg]
ra_nom	129.51496349997	Nominal RA [deg]
dec_nom	54.114702307499	Nominal Dec [deg]
roll_nom	37.320503958798	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9079.9000698328	Sum of GTIs [s]
livetime	8961.2644908953	Livetime [s]
ontime6	9079.9000698328	Sum of GTIs [s]
ontime7	9079.9000698328	Sum of GTIs [s]
ontime8	9079.9000698328	Sum of GTIs [s]
l2events	34998	Number of level 2 events



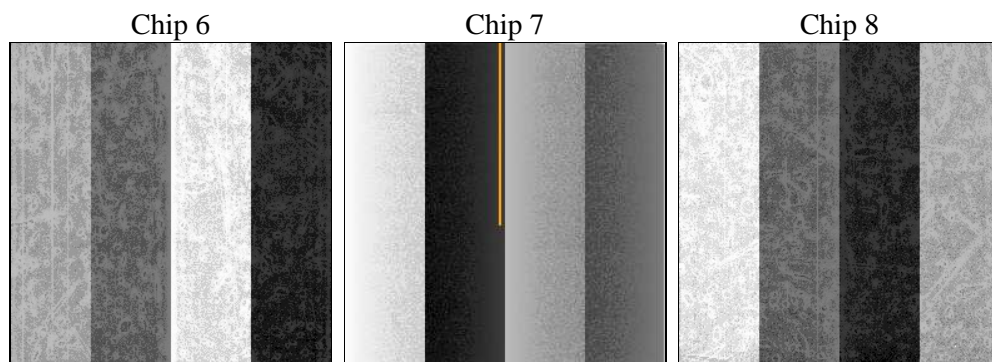
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	9079.9000698328	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime6	9079.9000698328	Sum of GTIs [s]
date	2014-12-06T07:38:28	Date and time of file creation	ontime7	9079.9000698328	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	9079.9000698328	Sum of GTIs [s]
			l1events	158916	Number of level 1 events

### 2.1.4 Events

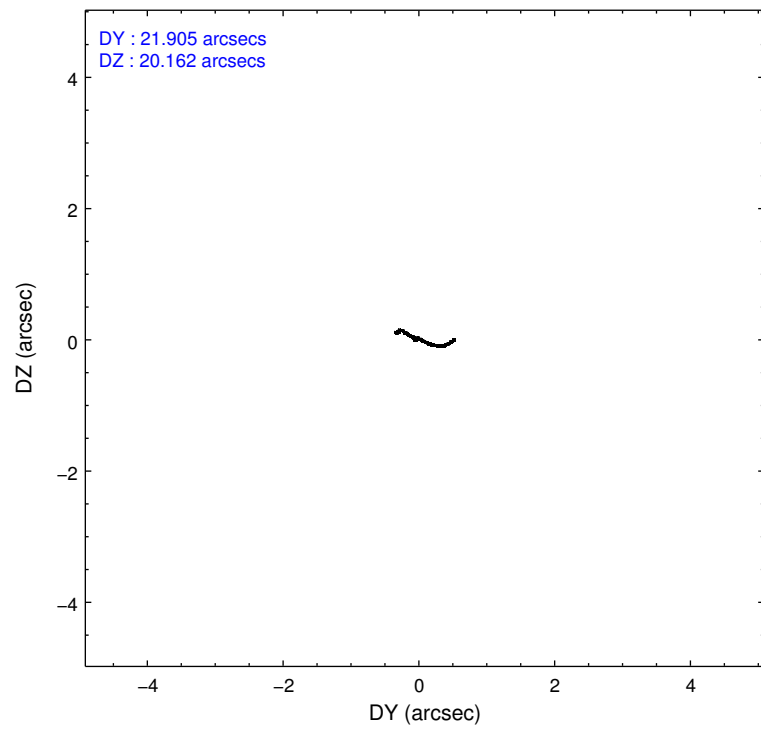
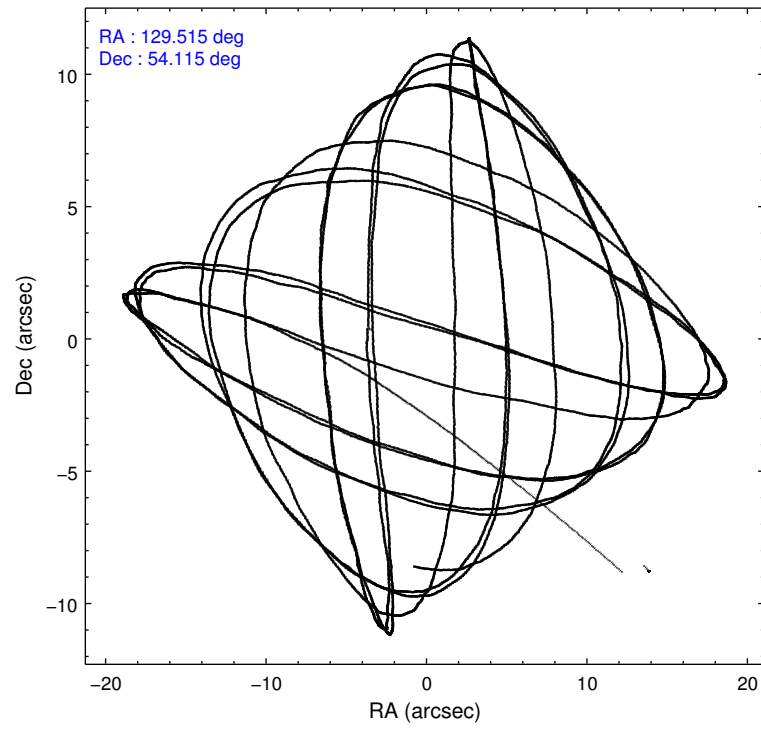
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	42396	58168	58352
rejected events	36990	32573	42934
rejected %	<b>87%</b>	<b>55%</b>	<b>73%</b>

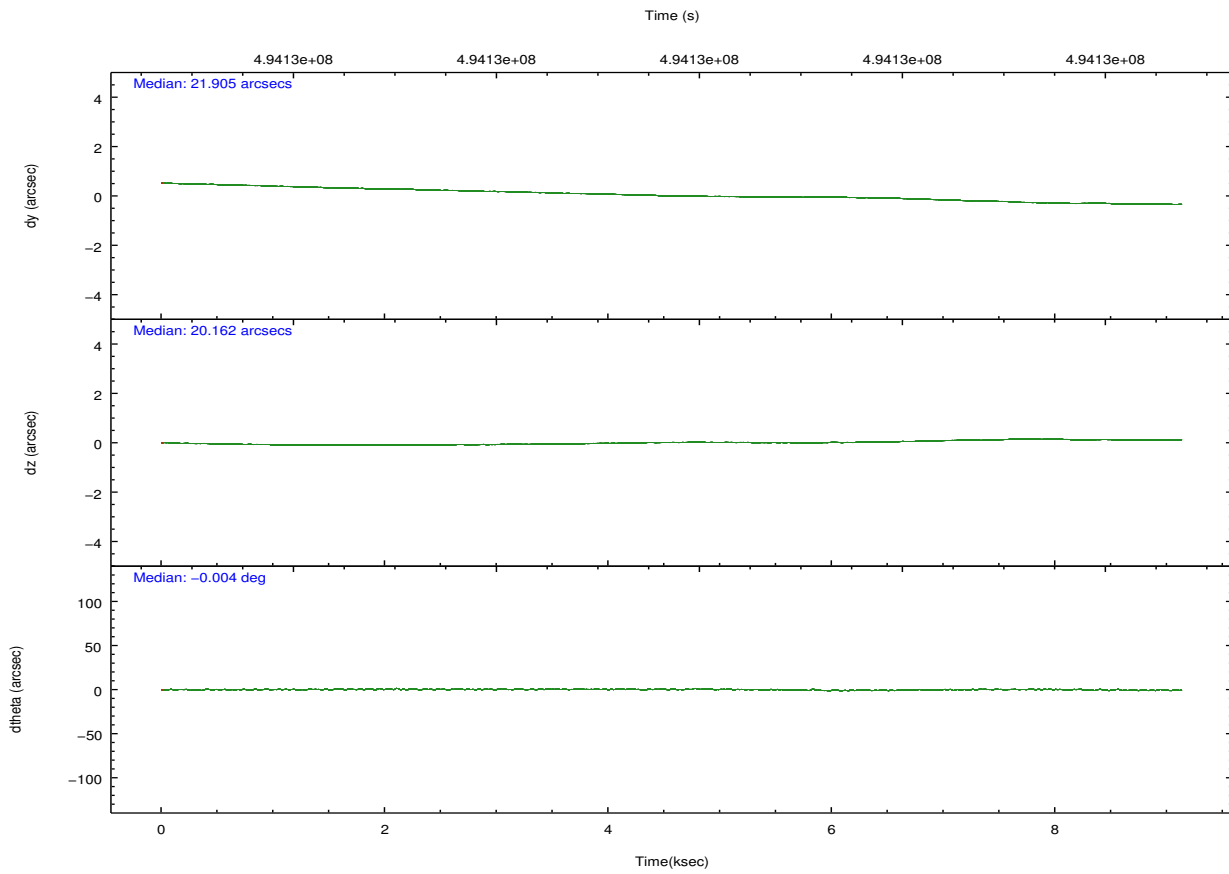
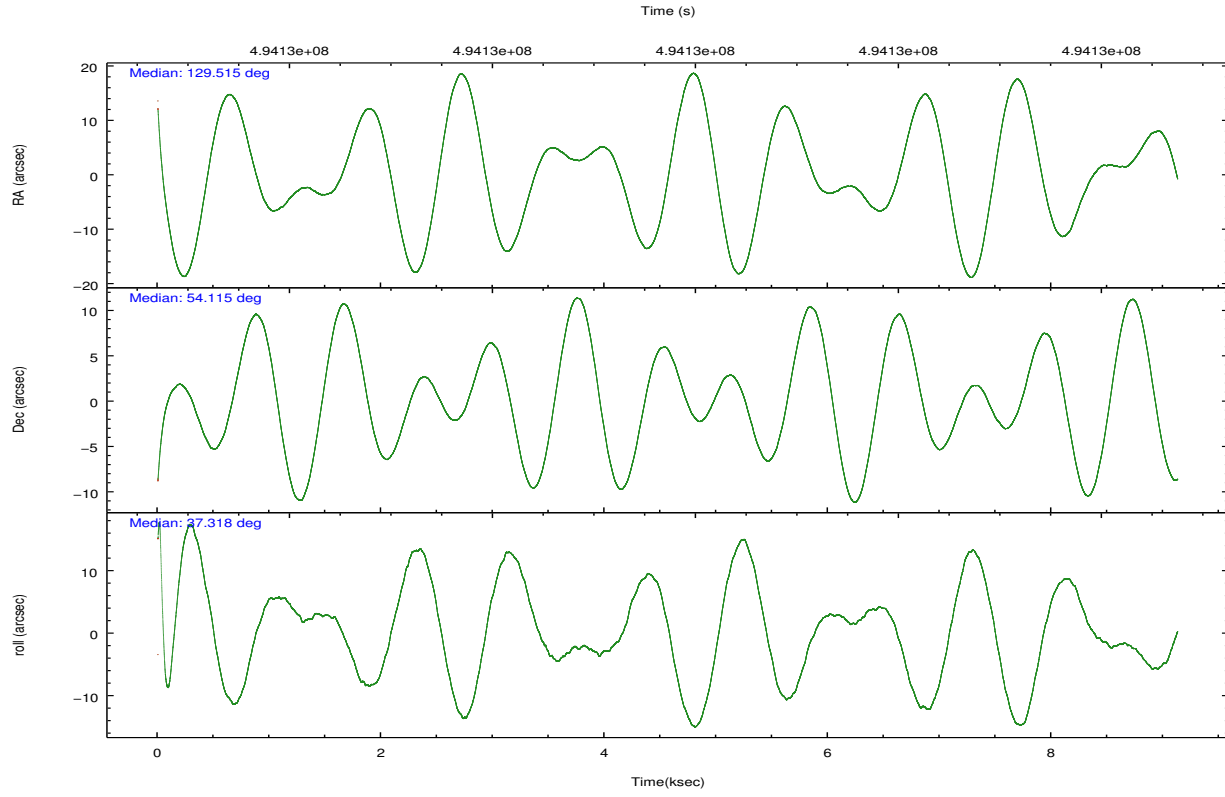
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	1770	2267	4564
	4%	3%	7%
grade 1 events	18	74	31
	0%	0%	0%
grade 2 events	1233	5141	3509
	2%	8%	6%
grade 3 events	599	2164	1614
	1%	3%	2%
grade 4 events	530	2157	1578
	1%	3%	2%
grade 5 events	2328	6141	3279
	5%	10%	5%
grade 6 events	1278	13882	4157
	3%	23%	7%
grade 7 events	34640	26342	39620
	81%	45%	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	129.497588	129.5149634999665	CCD I2 on	N	N
[deg] Pointing Dec	54.089348	54.11470230749865	CCD I3 on	N	N
[deg] Pointing Roll	37.177889	37.32050395879783	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	494125289.184000	494123922.31538	CCD S5 on	N	N
Observation start date	2013-08-29T01:00:22	2013-08-29T00:38:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	494134289.184000	494135196.29099	On-chip summing requested	N	N
Observation end date	2013-08-29T03:30:22	2013-08-29T03:46:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





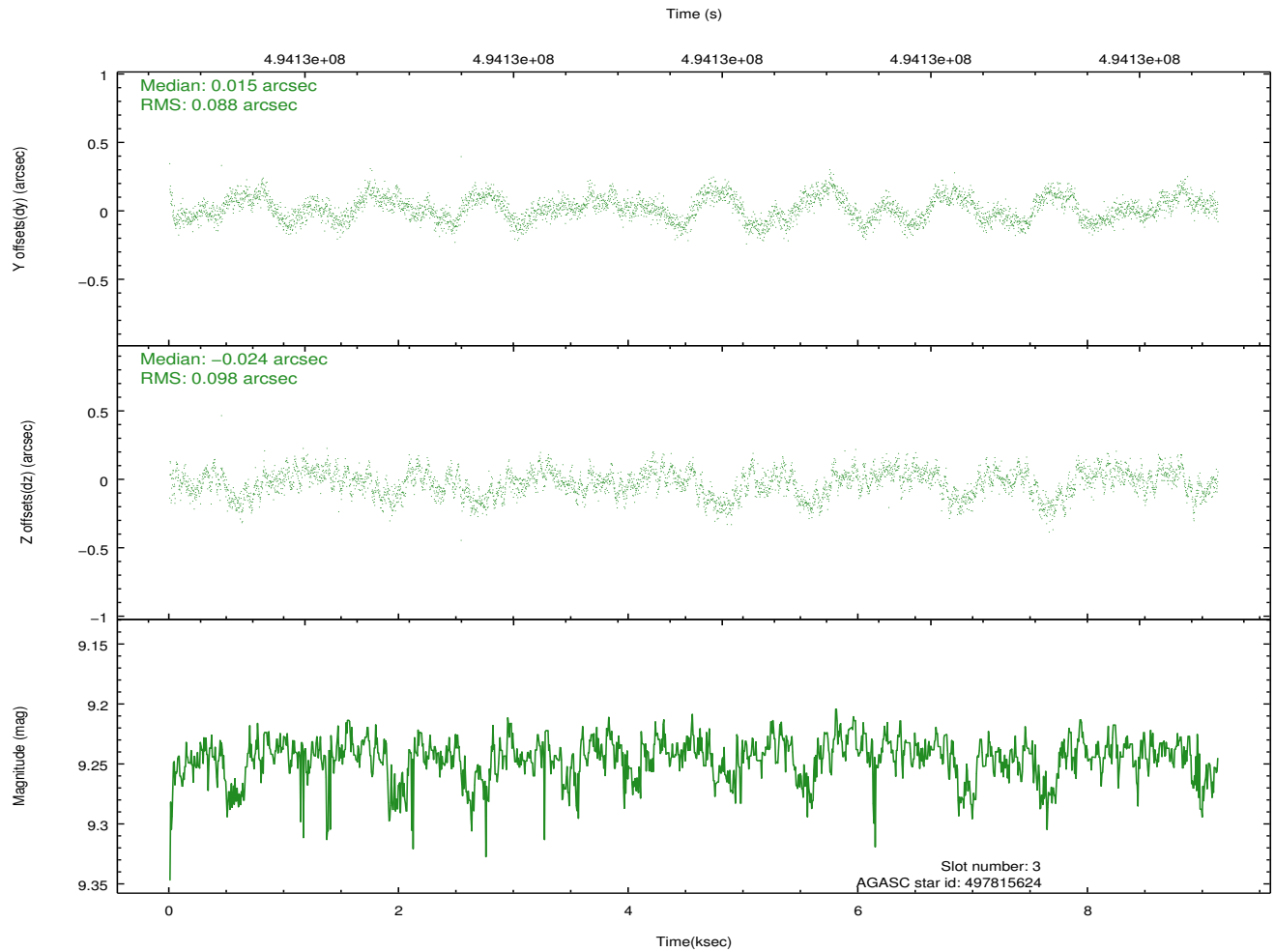
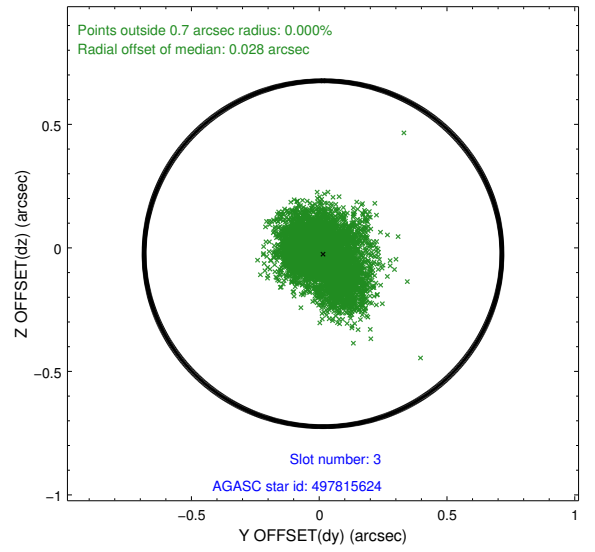
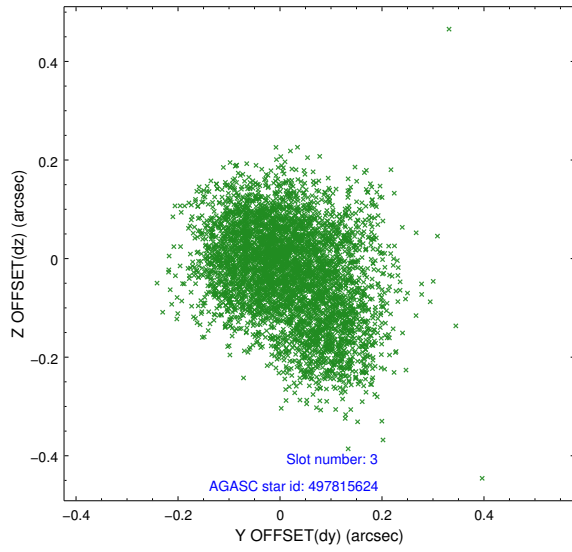
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	2227	-0.125	-0.016	0.008	0.013	0.000000	0.000000	-775.23	-1741.65
1	FID		ACIS-S-4	7.04	2227	0.259	0.065	0.012	0.020	0.000000	0.000000	2138.15	166.30
2	FID		ACIS-S-5	7.07	2227	-0.166	-0.041	0.015	0.023	0.000000	0.000000	-1827.36	160.53
3	GUIDE	used	497815624	9.24	4449	0.015	-0.024	0.142	0.222	129.409558	53.792006	-795.33	-739.44
4	GUIDE	used	497816312	8.18	4453	0.182	0.001	0.083	0.126	129.667637	53.722879	-507.85	-1269.65
5	GUIDE	used	497816320	9.30	4453	-0.182	0.089	0.145	0.226	130.376537	53.698440	649.58	-2243.92
6	GUIDE	used	497816528	7.79	4454	-0.051	-0.051	0.087	0.156	128.943832	53.725880	-1727.36	-326.55
7	GUIDE	used	497684688	9.22	4448	0.032	-0.012	0.118	0.184	128.868684	53.705542	-1898.94	-286.19

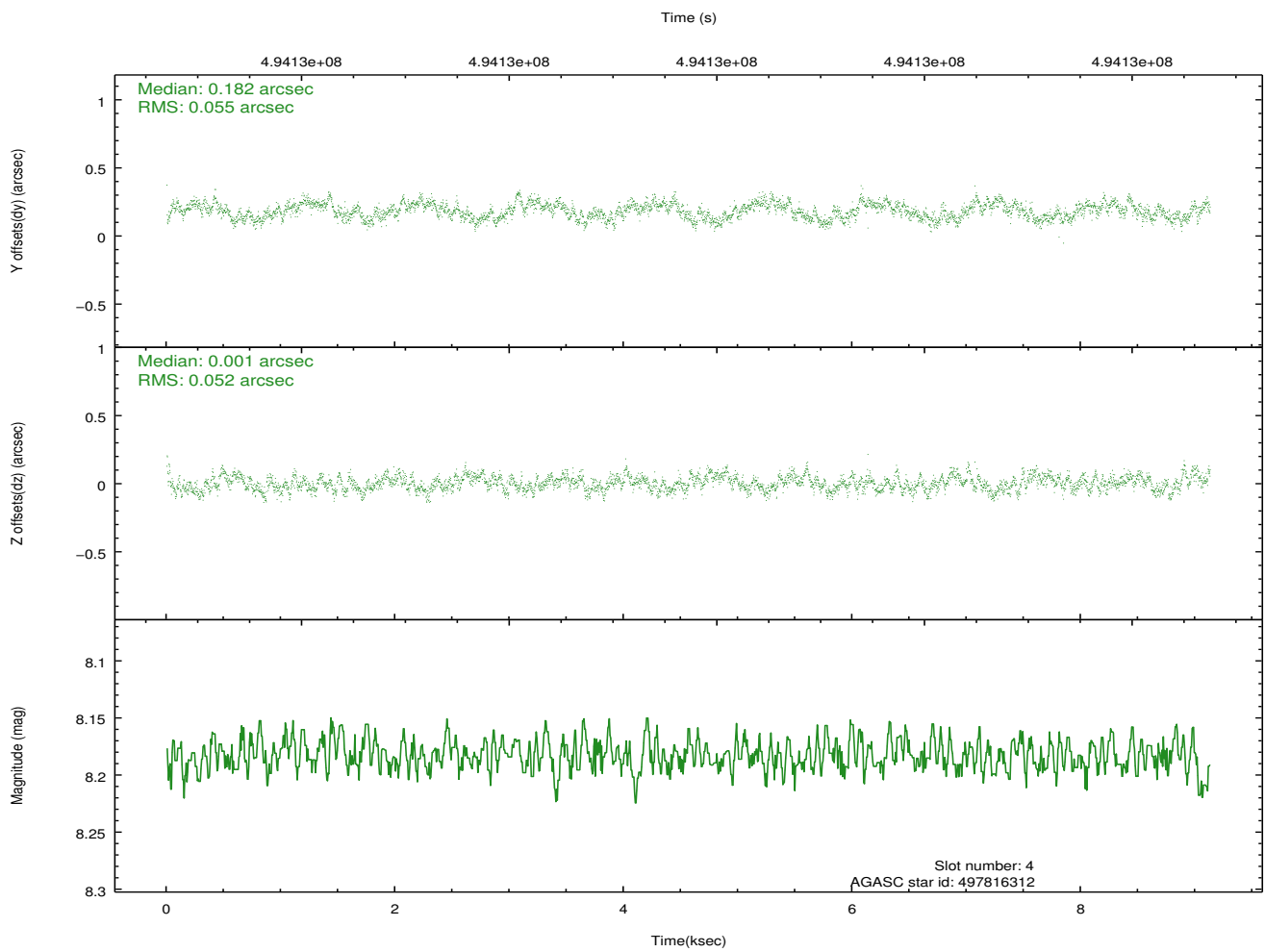
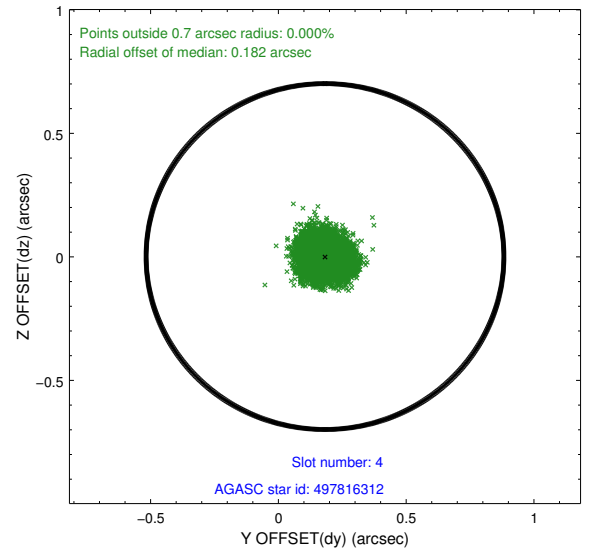
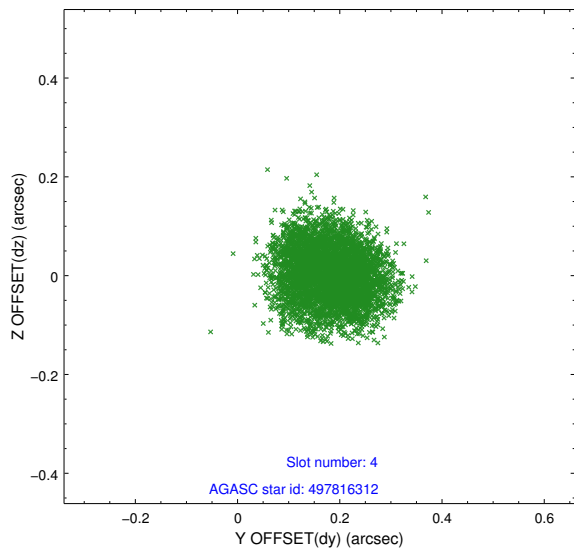
∞

## 2.4 Star Slots

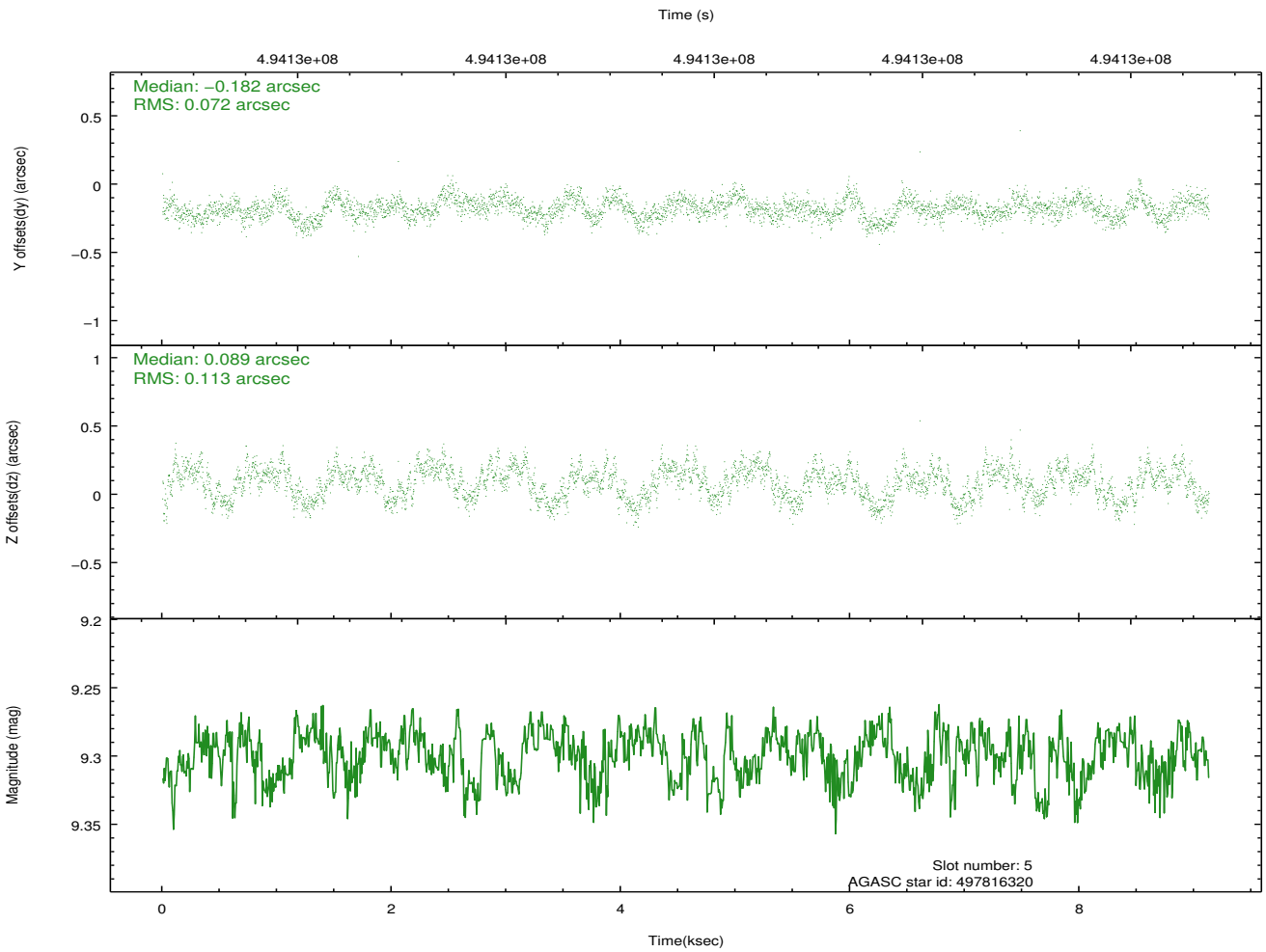
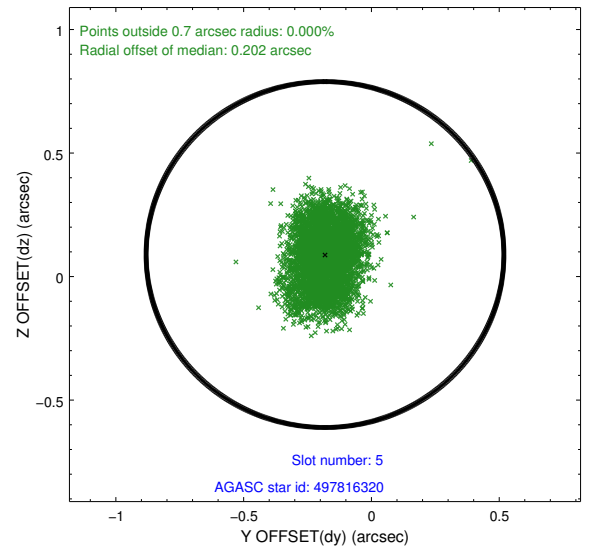
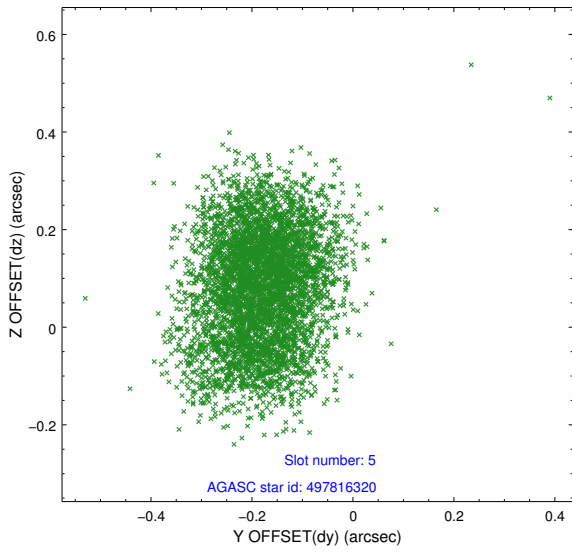
### 2.4.1 Slot 3



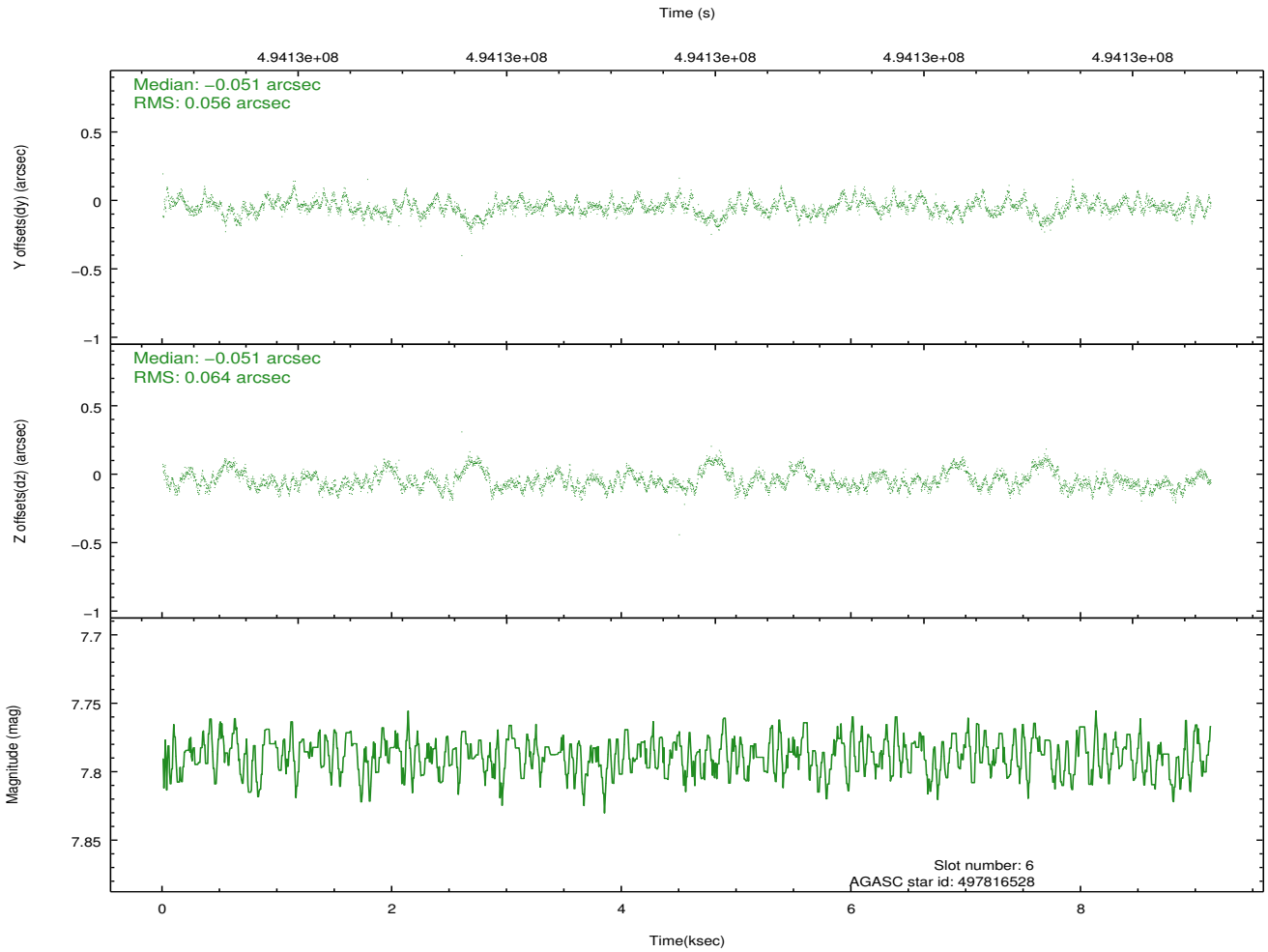
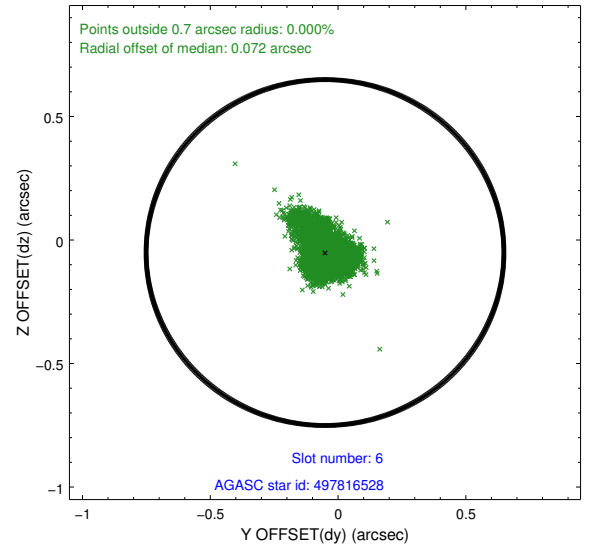
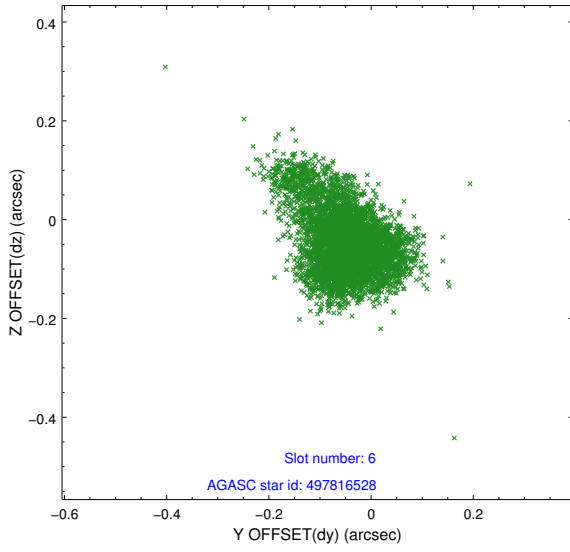
## 2.4.2 Slot 4



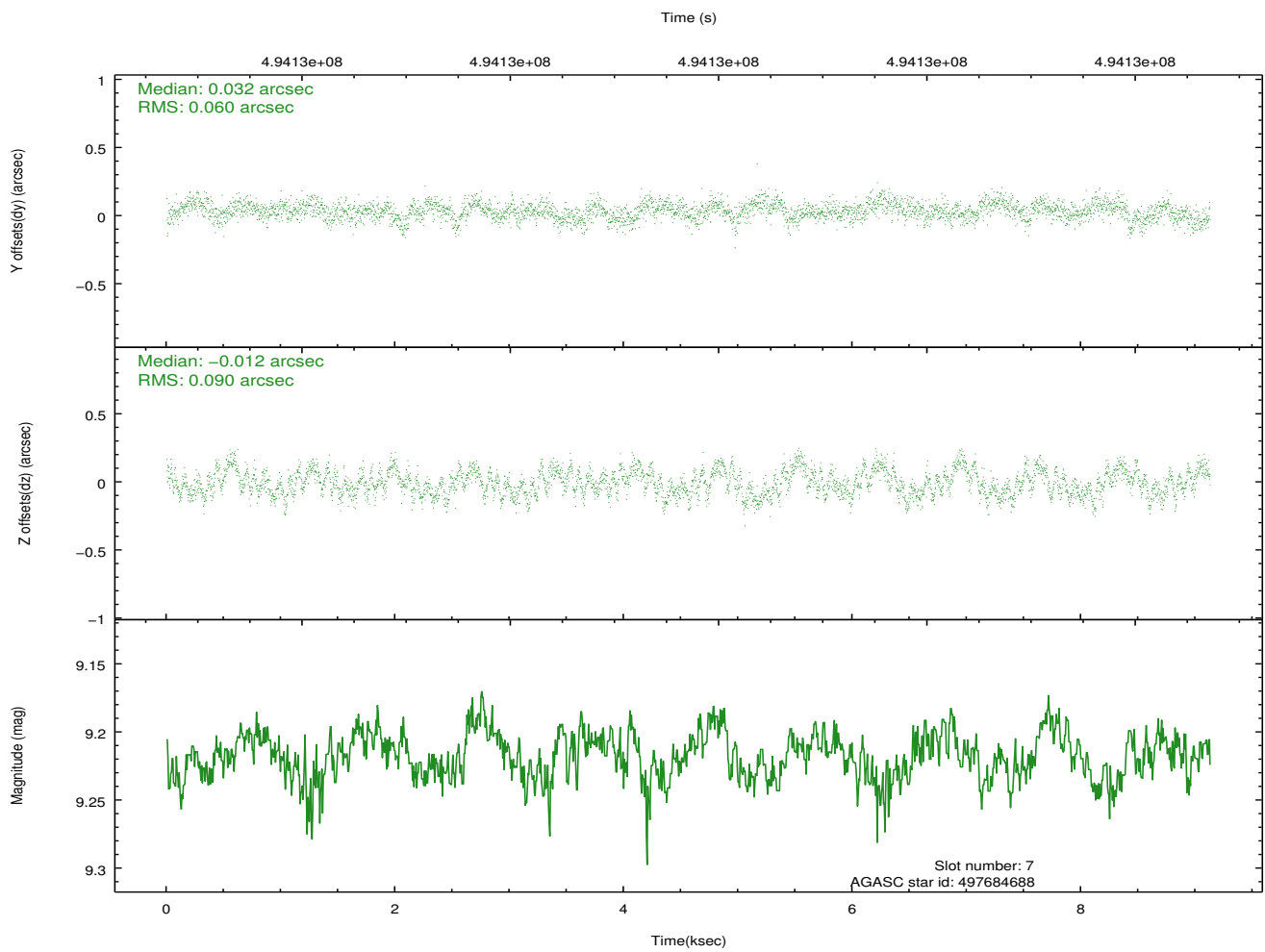
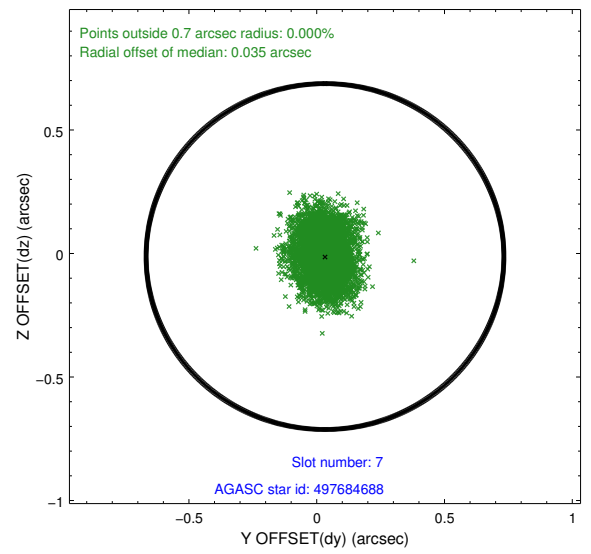
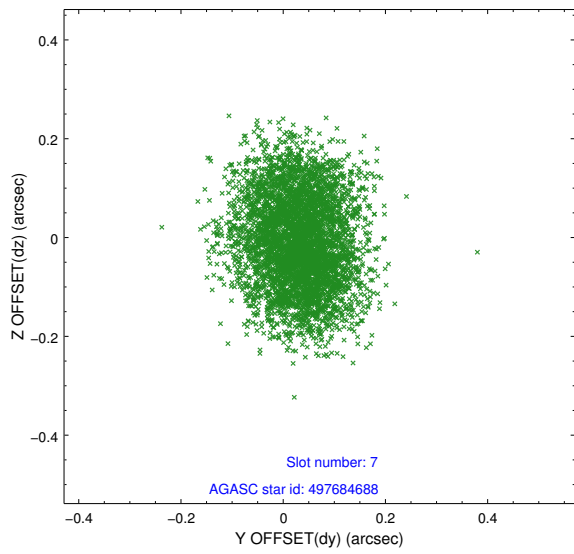
### 2.4.3 Slot 5



## 2.4.4 Slot 6

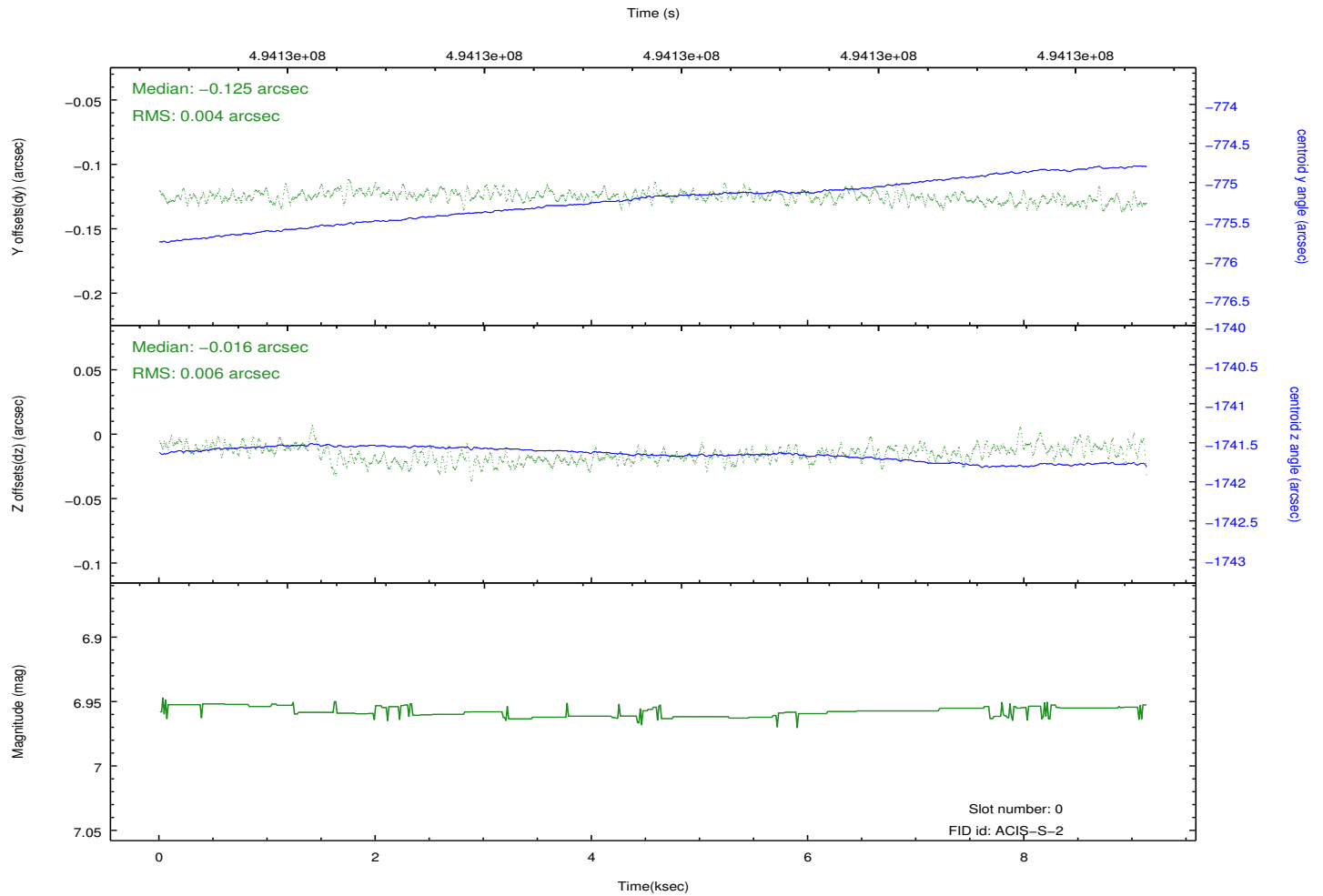
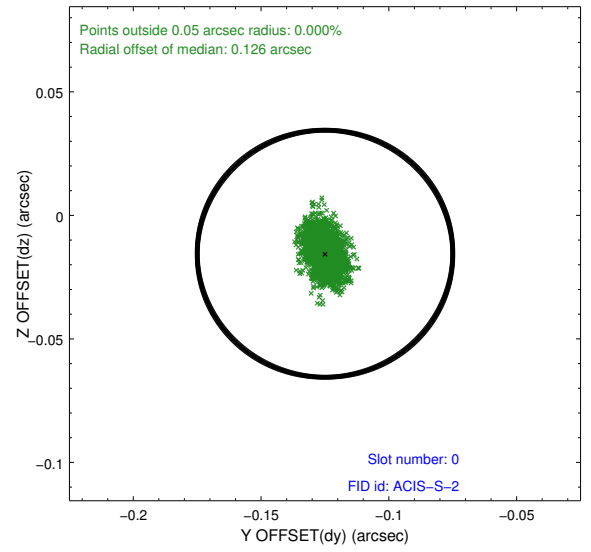
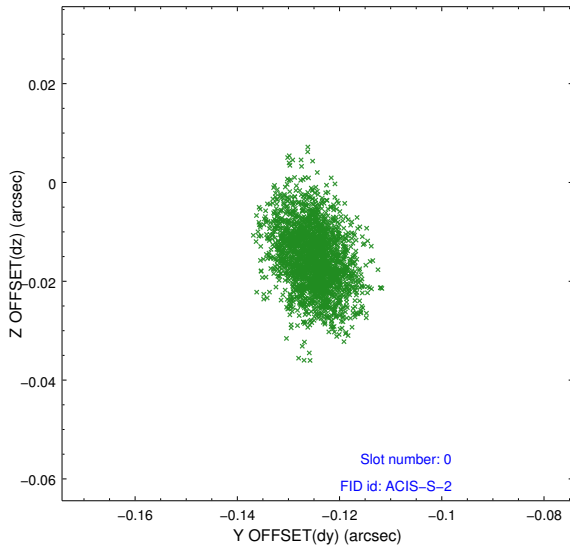


## 2.4.5 Slot 7

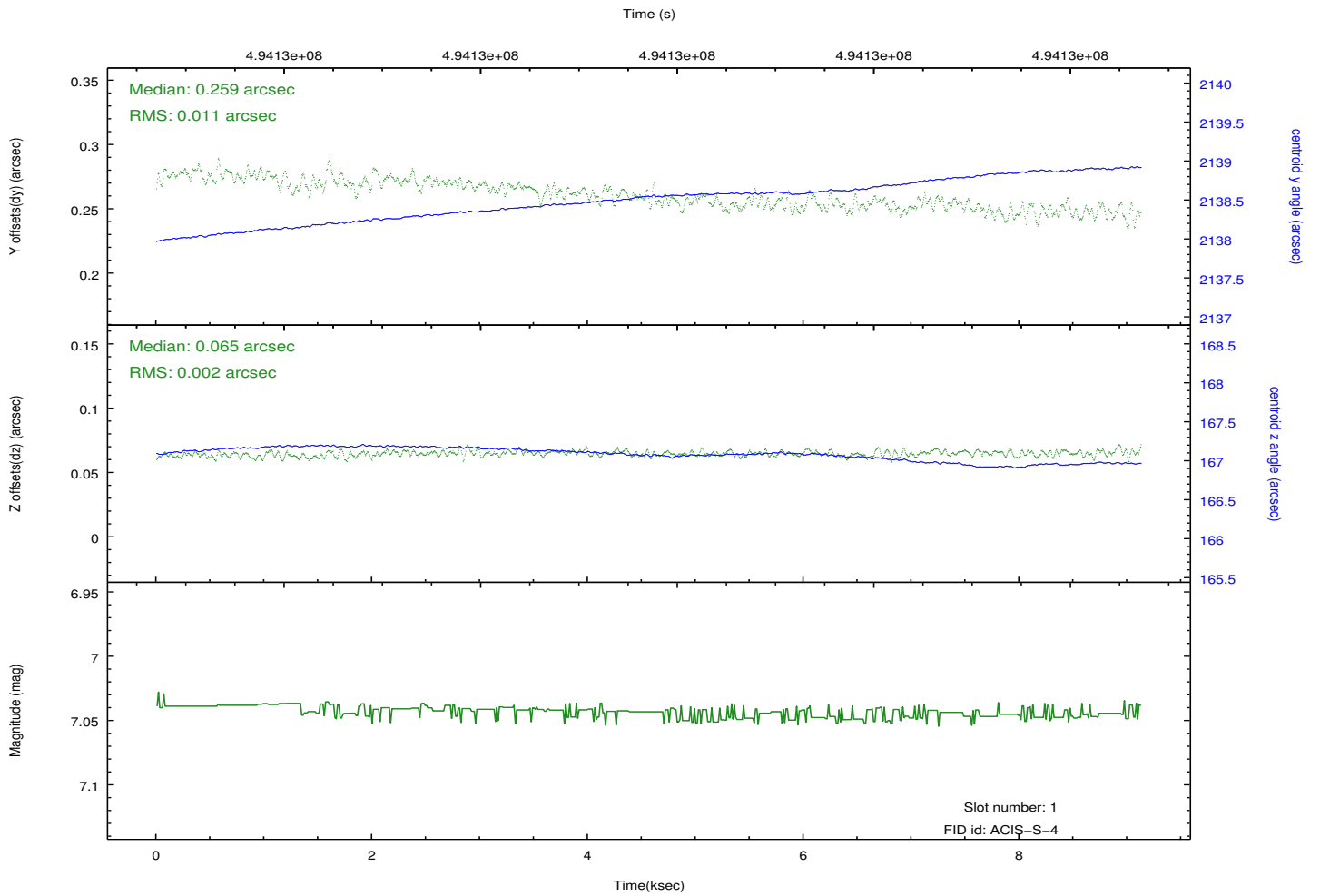
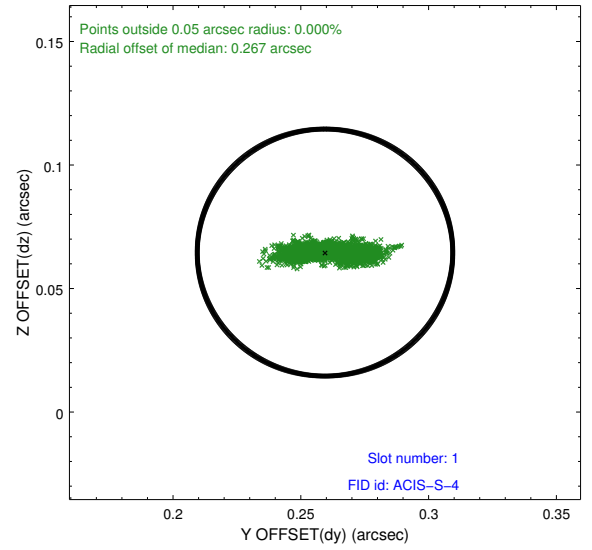
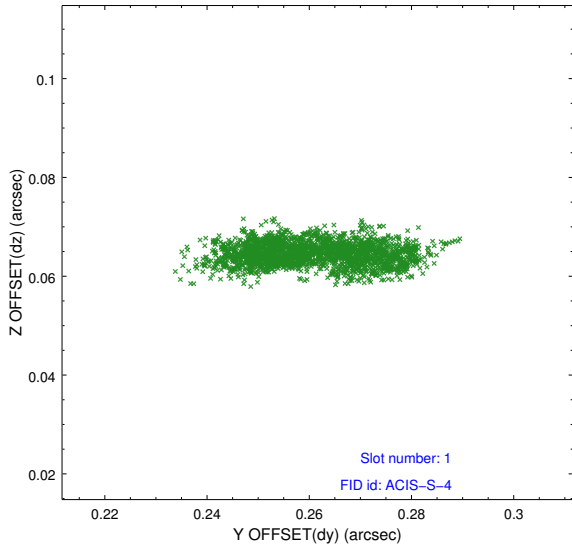


## 2.5 FID Slots

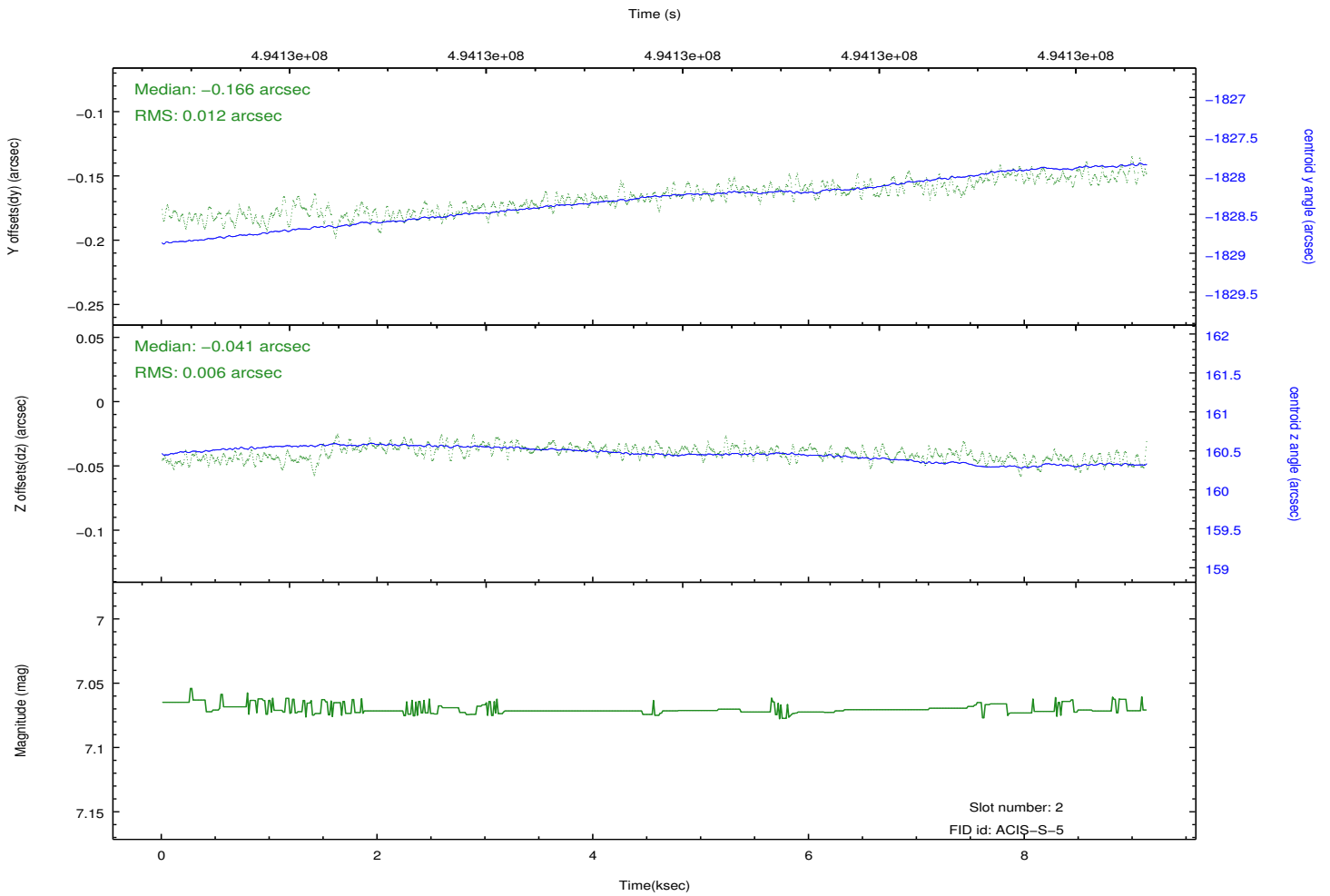
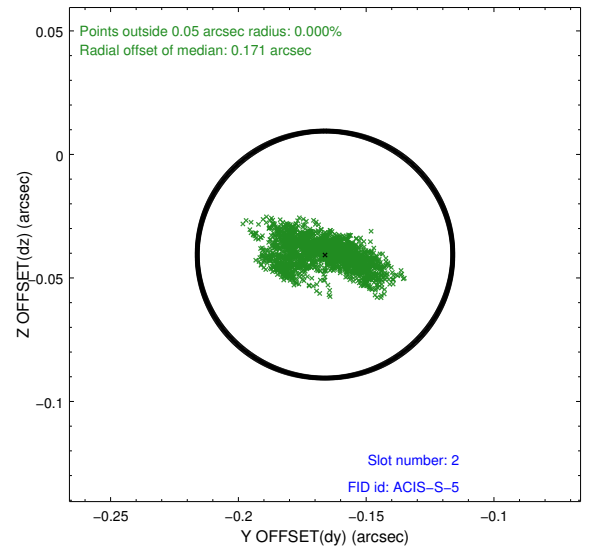
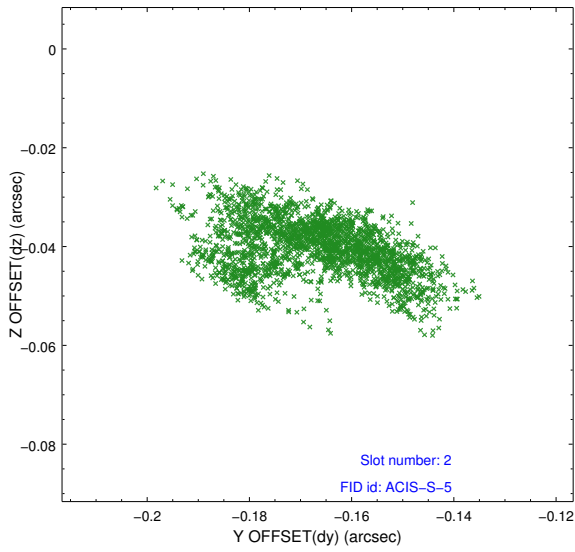
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0799000698328

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.