

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8368 - L2 Version 3  
Chandra X-Ray Center

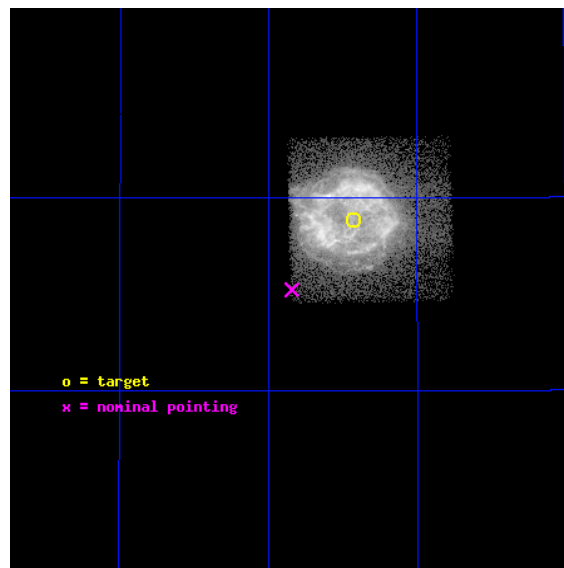
L2 Processing Date : Apr 20 2012

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# 1 Front

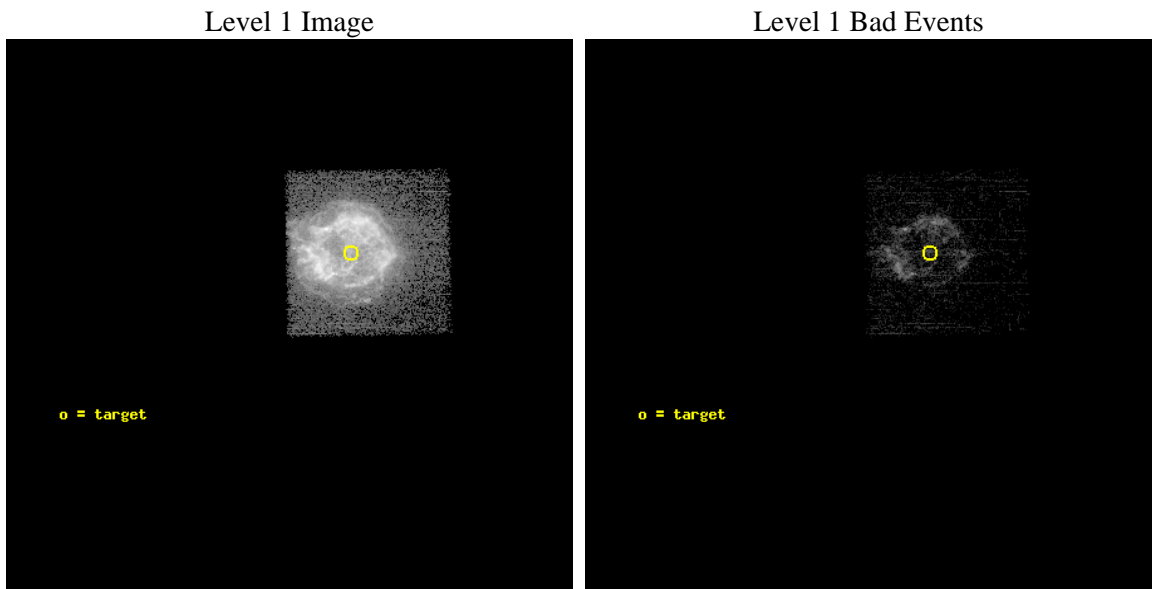
seq_num	590461	Sequence number
obs_id	8368	Observation id
title	AO8 Observations of the Standard Candles Cas A and G21.5-09	Propos
observer	Dr. CXC Calibration	Principal investigator
object	Cas A[I3,-120,-3.0,3.5,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.96054791688	Nominal RA [deg]
dec_nom	58.754036058483	Nominal Dec [deg]
roll_nom	359.31878862052	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1700.4996310472	Sum of GTIs [s]
livetime	1678.966880801	Livetime [s]
ontime0	2035.1999924779	Sum of GTIs [s]
ontime1	2035.1999924779	Sum of GTIs [s]
ontime2	2035.1999924779	Sum of GTIs [s]
ontime3	1700.4996310472	Sum of GTIs [s]
ontime6	2035.1999924779	Sum of GTIs [s]
ontime7	2035.1999924779	Sum of GTIs [s]
l2events	346368	Number of level 2 events



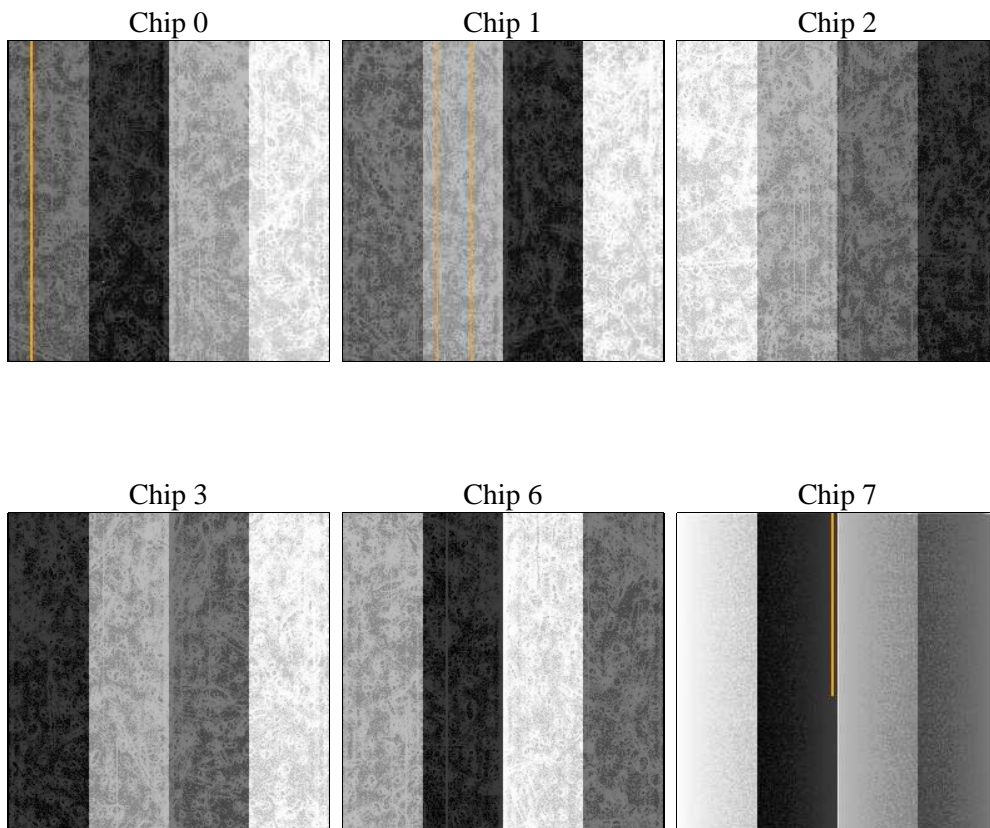
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1700.4996310472	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	2035.1999924779	Sum of GTIs [s]
date	2012-04-21T01:56:32	Date and time of file creation	ontime1	2035.1999924779	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2035.1999924779	Sum of GTIs [s]
			ontime3	1700.4996310472	Sum of GTIs [s]
			ontime6	2035.1999924779	Sum of GTIs [s]
			ontime7	2035.1999924779	Sum of GTIs [s]
			l1events	385245	Number of level 1 events

### 2.1.4 Events

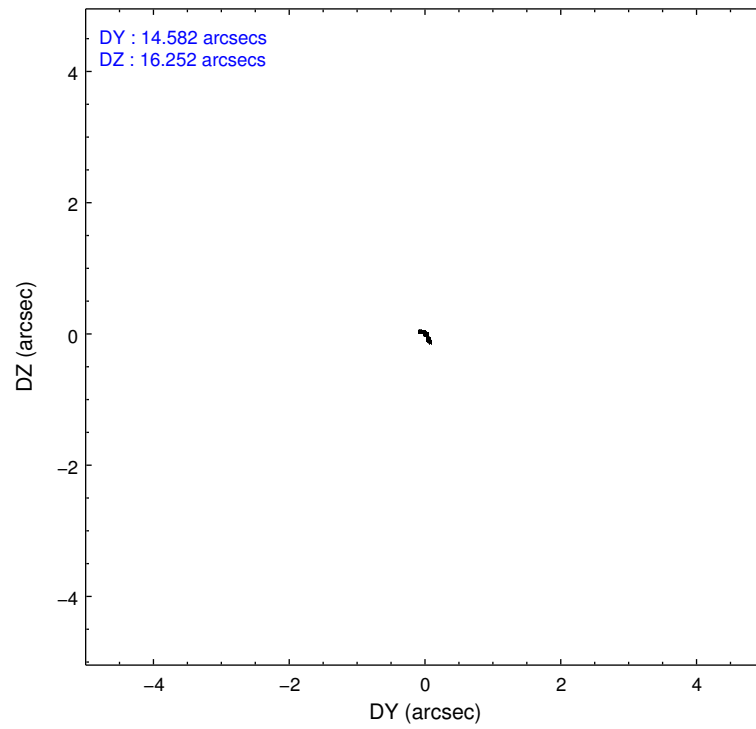
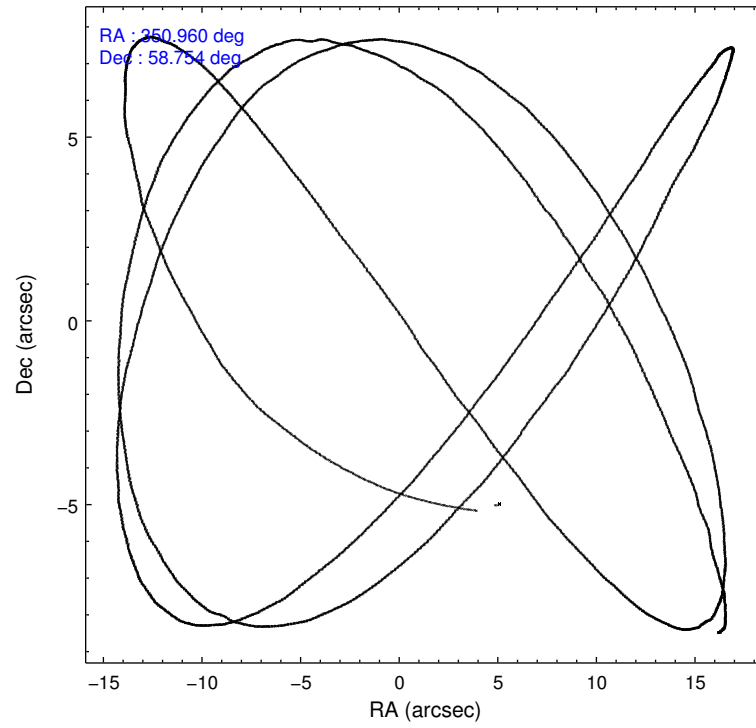
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	385245	0	0
rejected events	0	0	0	27350	0	0
rejected %	0%	0%	0%	7%	0%	0%

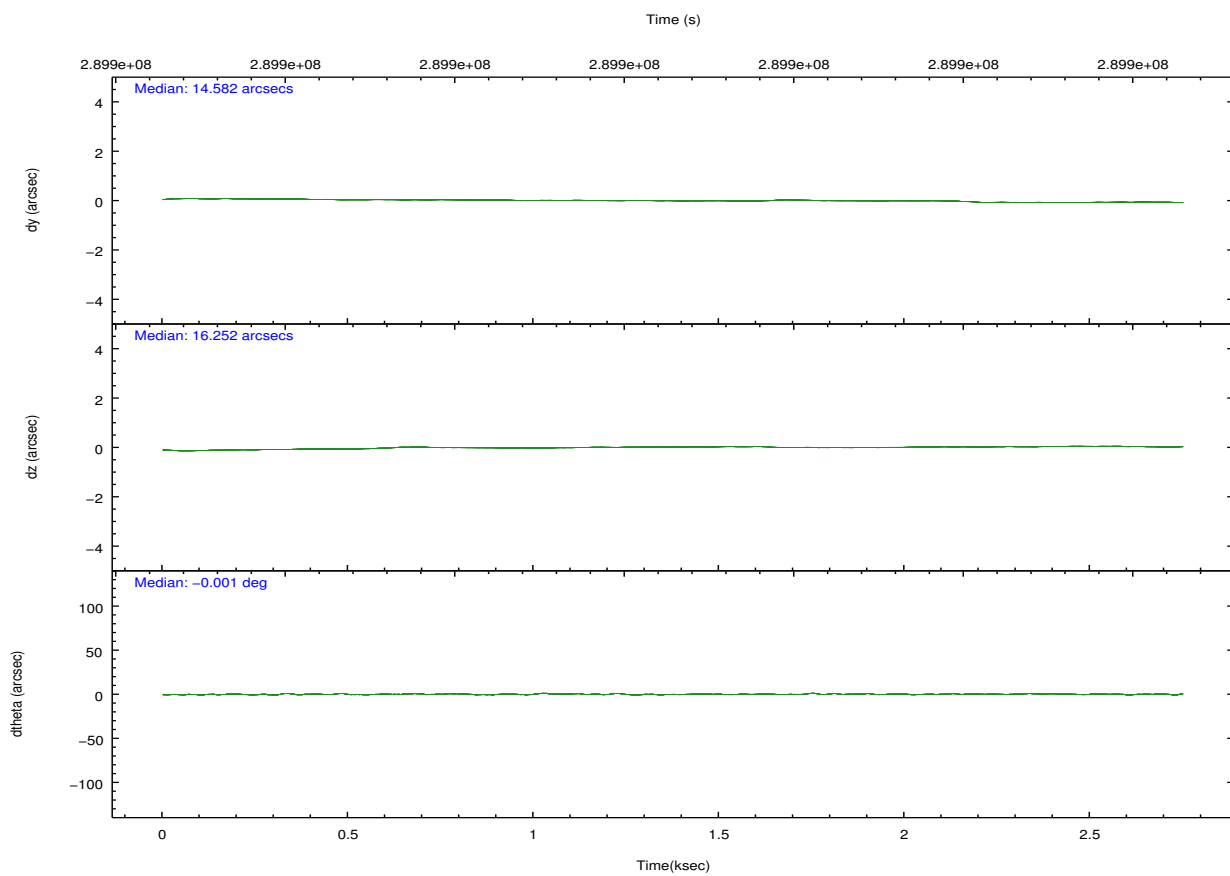
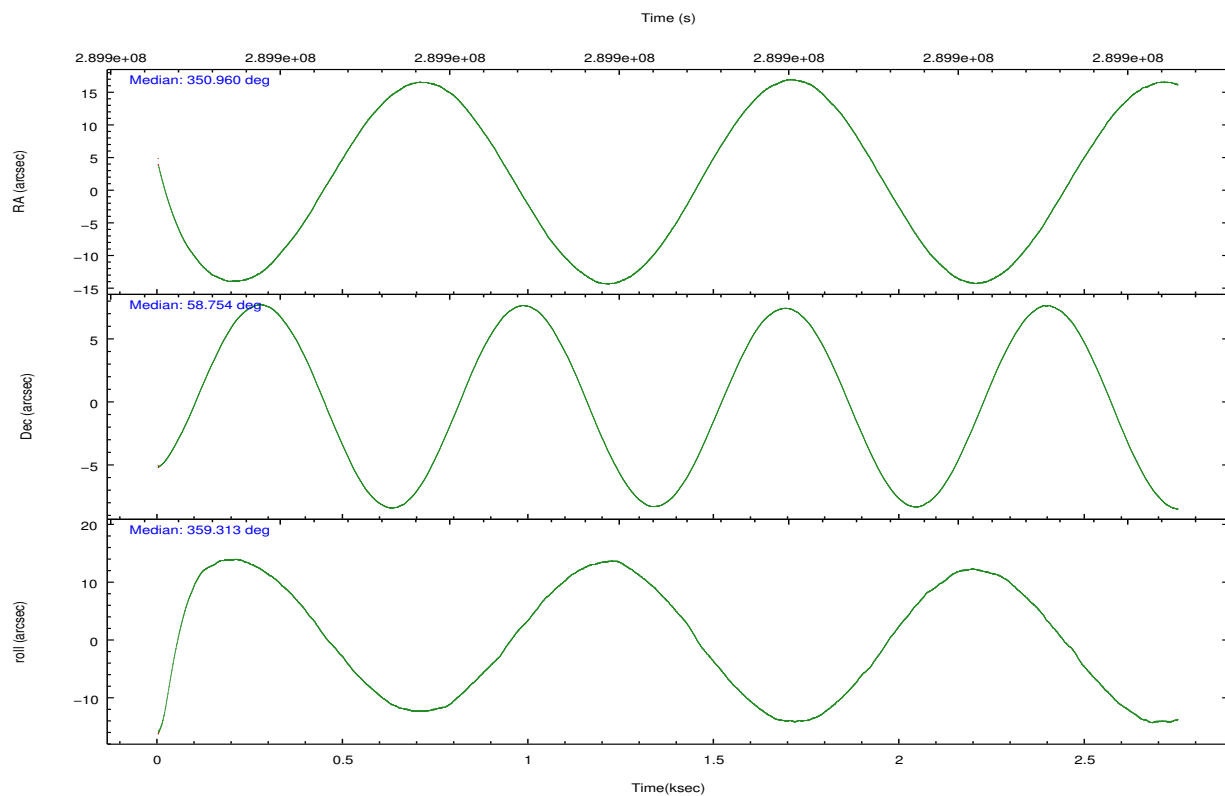
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	292431	0	0
	0%	0%	0%	75%	0%	0%
grade 1 events	0	0	0	5030	0	0
	0%	0%	0%	1%	0%	0%
grade 2 events	0	0	0	35781	0	0
	0%	0%	0%	9%	0%	0%
grade 3 events	0	0	0	11441	0	0
	0%	0%	0%	2%	0%	0%
grade 4 events	0	0	0	11410	0	0
	0%	0%	0%	2%	0%	0%
grade 5 events	0	0	0	3164	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	0	7501	0	0
	0%	0%	0%	1%	0%	0%
grade 7 events	0	0	0	18487	0	0
	0%	0%	0%	4%	0%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.914591	350.9605479168841	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.740401	58.75403605848254	Alternating exposures requested	N	N
[deg] Pointing Roll	359.149464	359.3187886205153	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	286675265.184000	286675265.184000			
[s] Window stop time (MET)	296956865.184000	296956865.184000			
[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)	289901521.184000	289900234.38525			
Observation start date	2007-03-10T08:10:56	2007-03-10T07:50:34			
[s] Observation end time (MET)	289903521.184000	289904417.41045			
Observation end date	2007-03-10T08:44:16	2007-03-10T09:00:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect





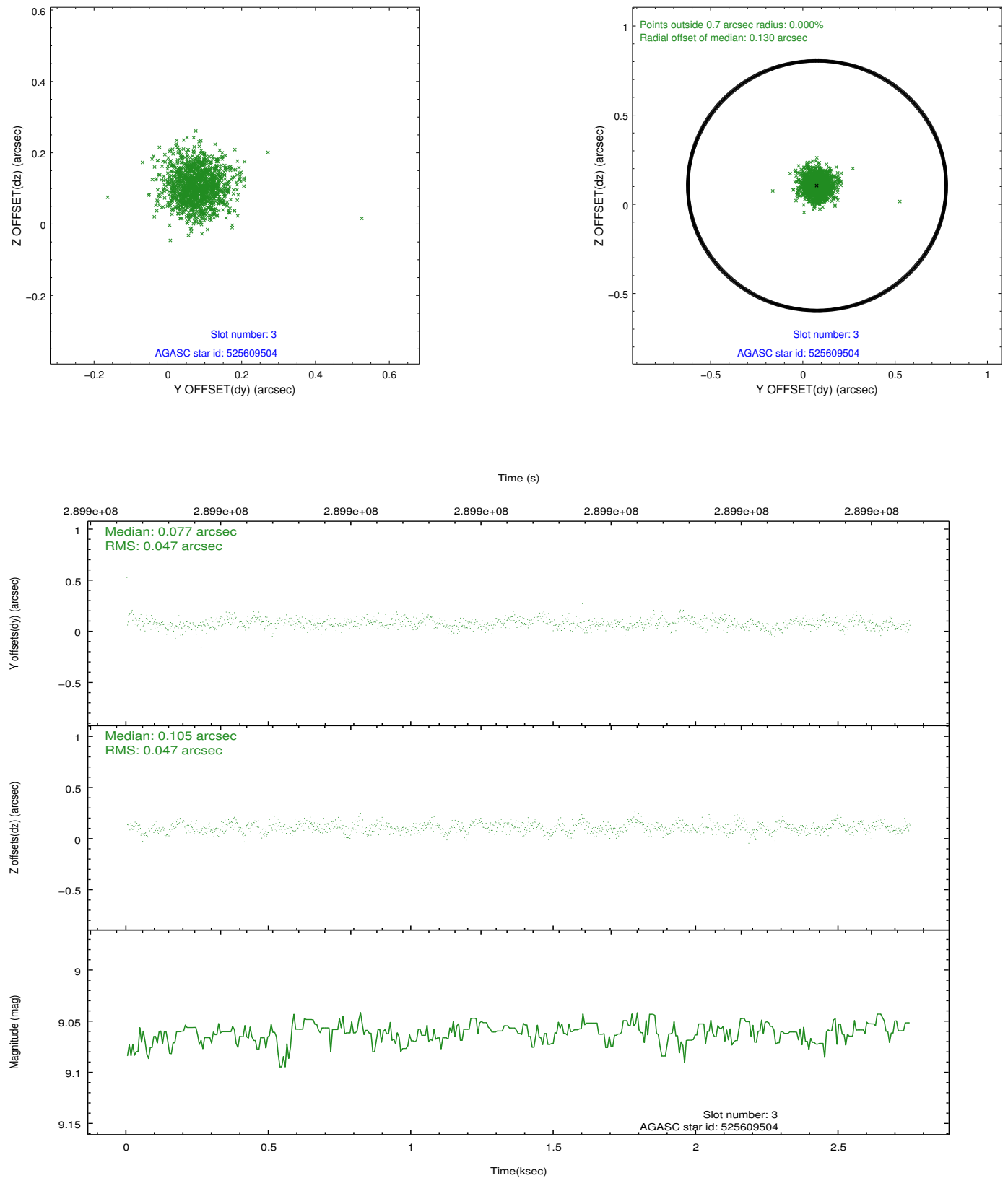
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	671	0.069	-0.052	0.006	0.011	0.000000	0.000000	924.94	-839.95
1	FID	ACIS-I-5	7.22	671	-0.228	0.063	0.006	0.011	0.000000	0.000000	-1822.13	1056.55
2	FID	ACIS-I-6	7.24	671	0.068	0.059	0.007	0.011	0.000000	0.000000	387.99	1703.65
3	GUIDE	525609504	9.06	1342	0.077	0.105	0.069	0.115	349.896632	58.356658	-1901.62	-1395.43
4	GUIDE	525732488	8.41	1341	0.047	0.104	0.080	0.125	350.087090	58.516915	-1544.52	-819.08
5	GUIDE	525735456	6.92	1342	-0.110	-0.206	0.062	0.093	350.628183	59.307249	-557.67	2032.80
6	GUIDE	525735976	8.75	1342	0.002	0.050	0.075	0.120	350.142956	58.277622	-1435.73	-1677.80
7	GUIDE	525737896	6.99	1341	-0.022	-0.054	0.068	0.104	352.012180	59.335036	1982.28	2185.85

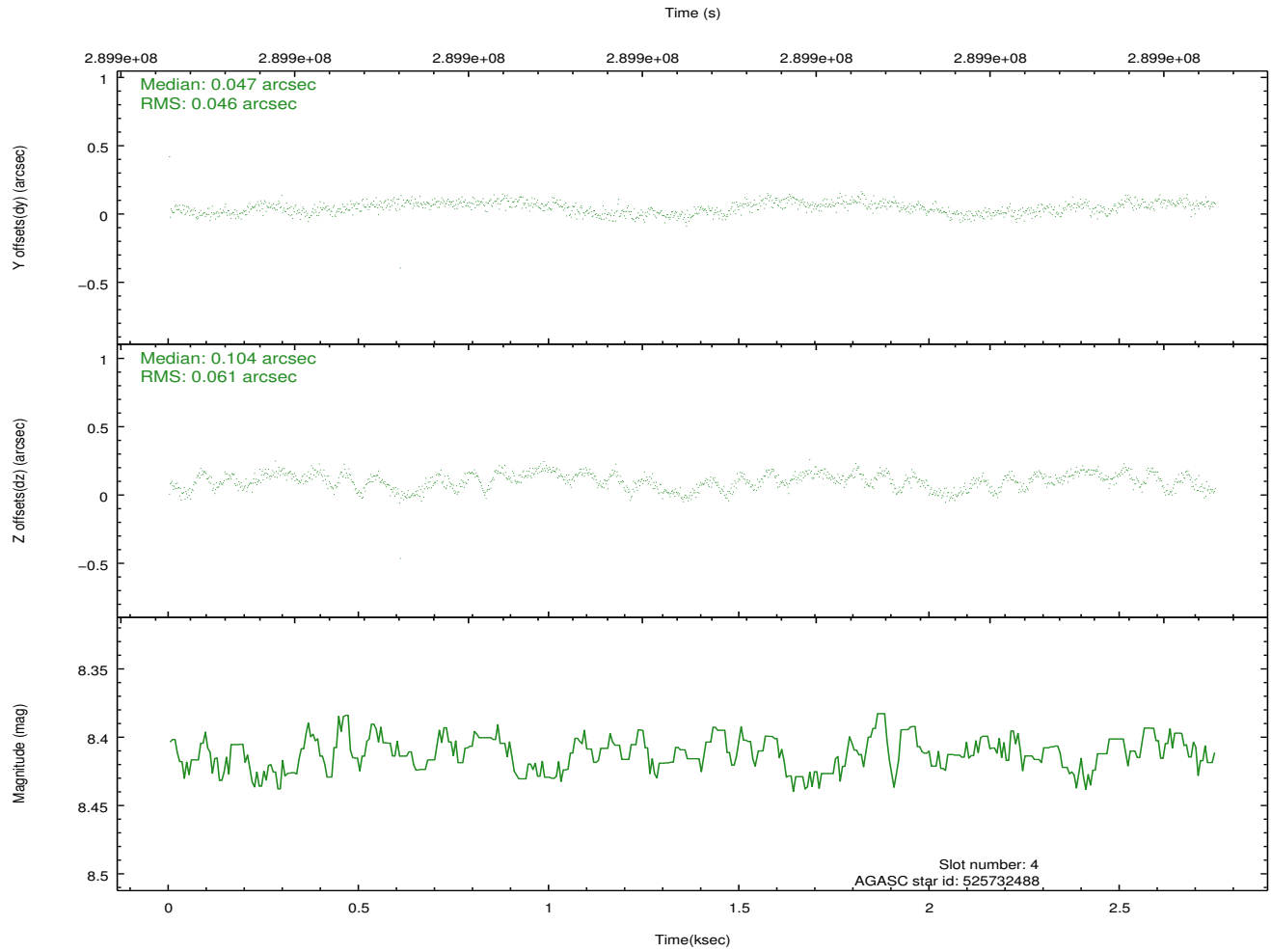
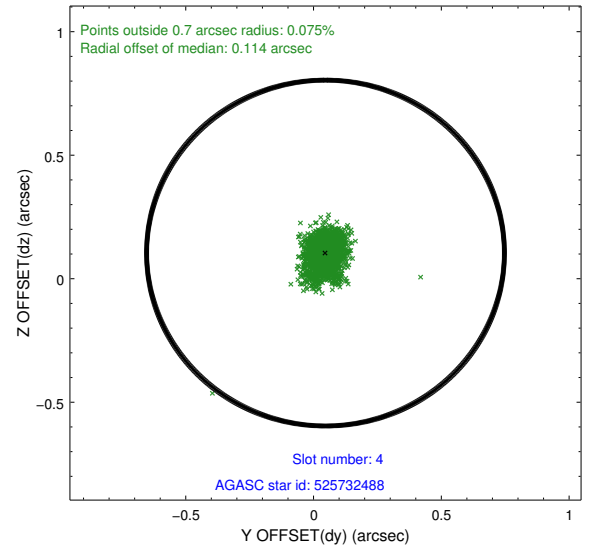
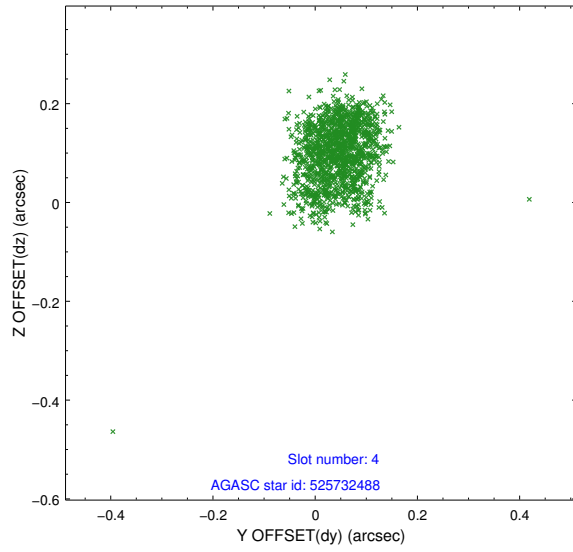


## 2.4 Star Slots

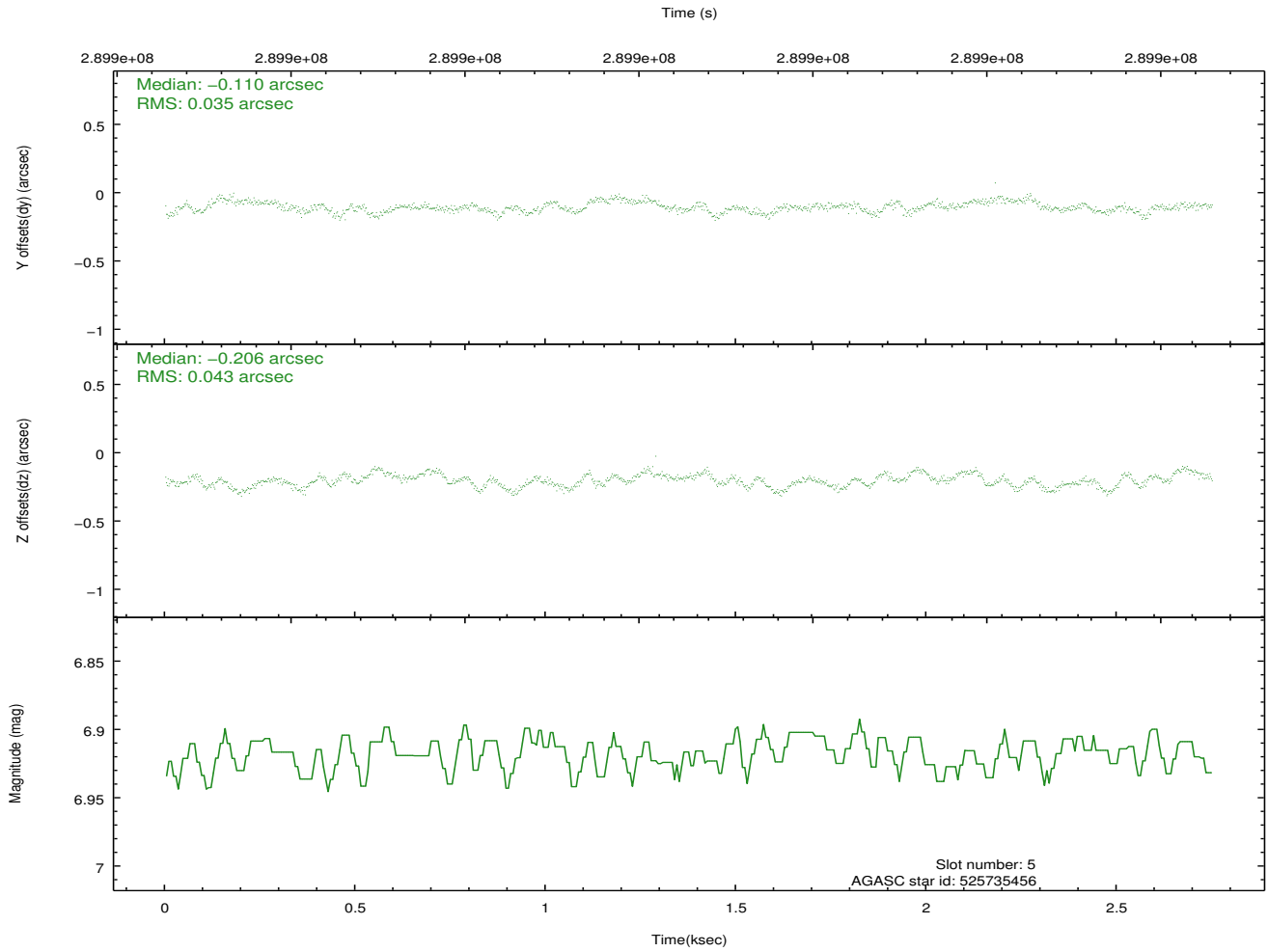
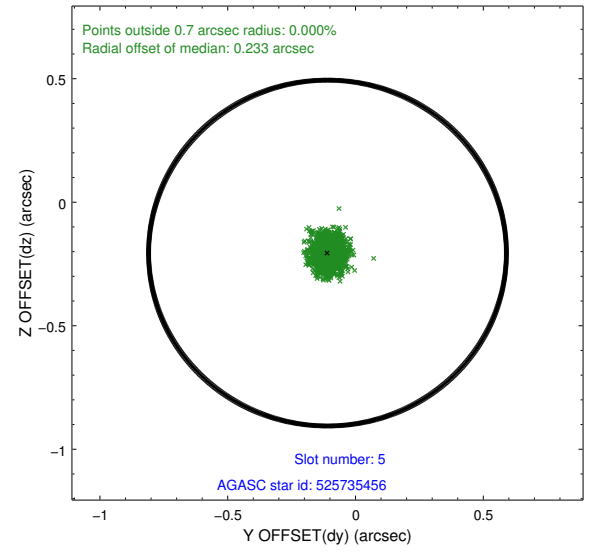
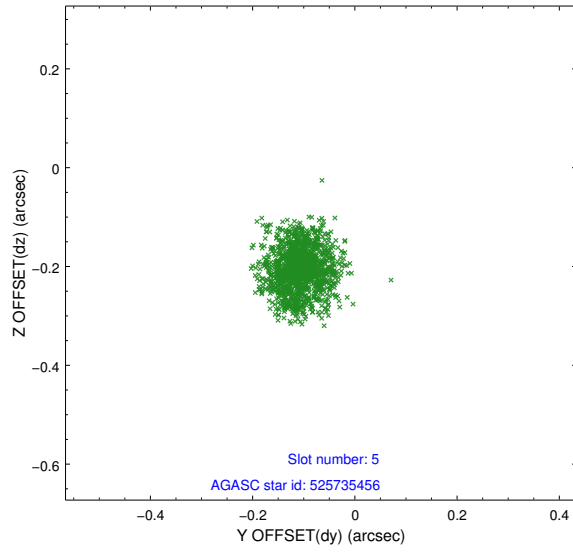
### 2.4.1 Slot 3



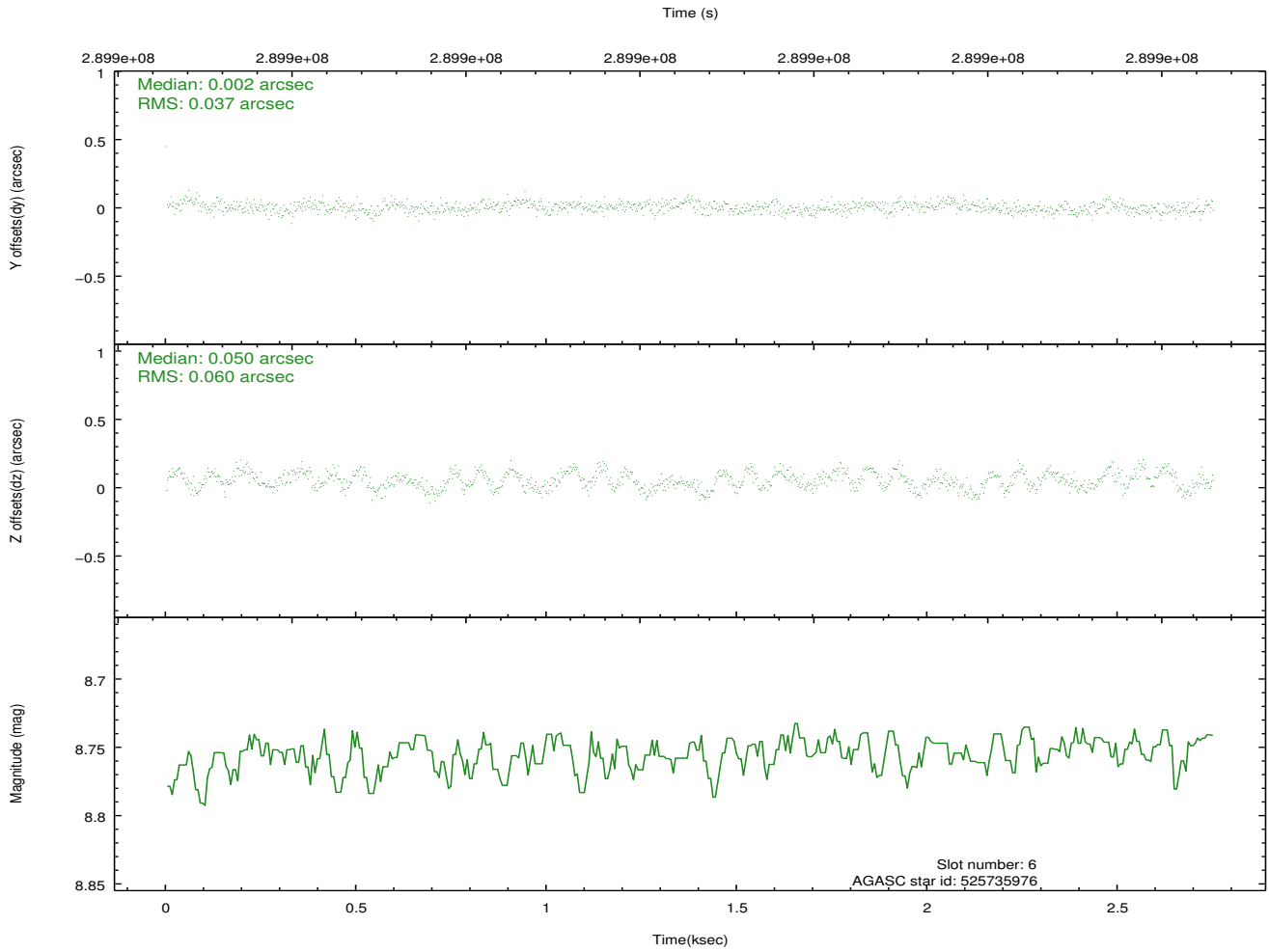
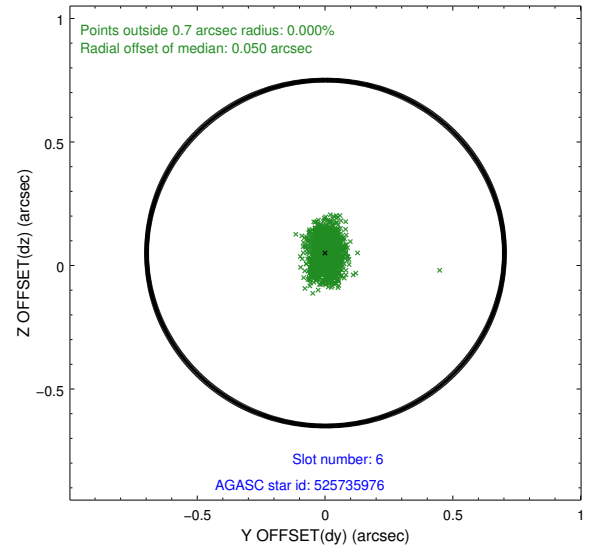
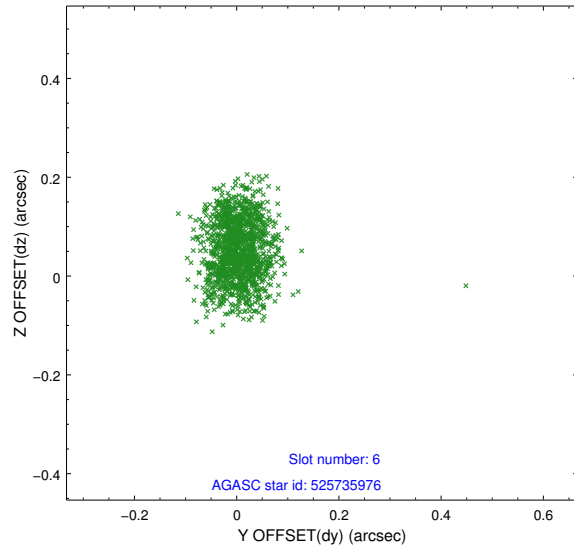
## 2.4.2 Slot 4



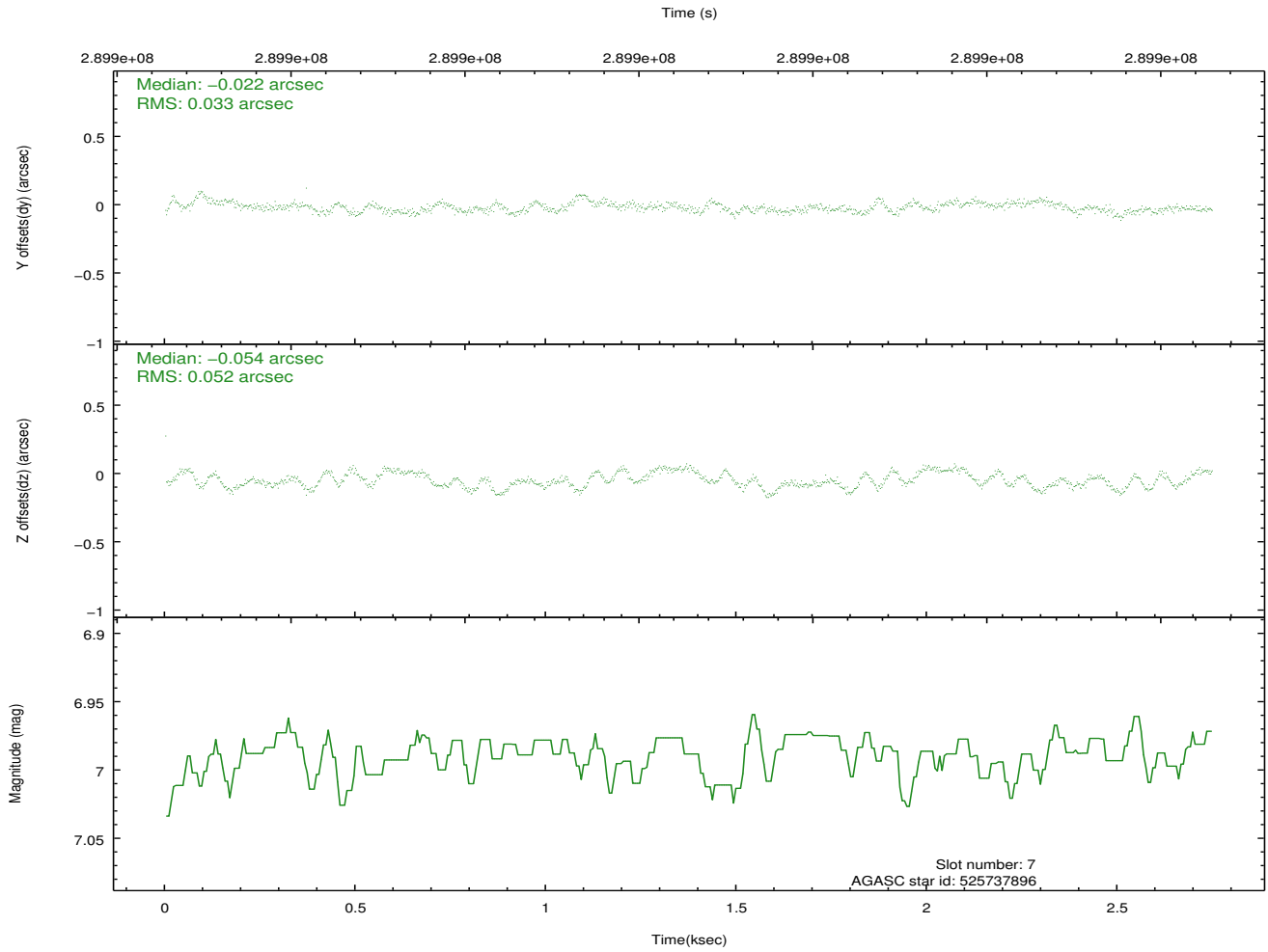
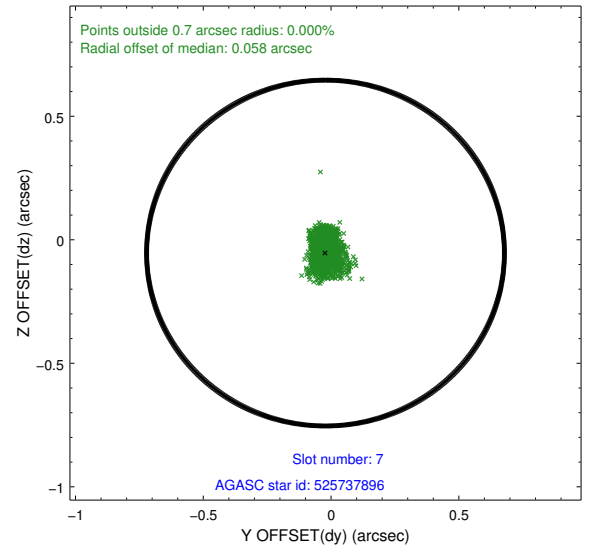
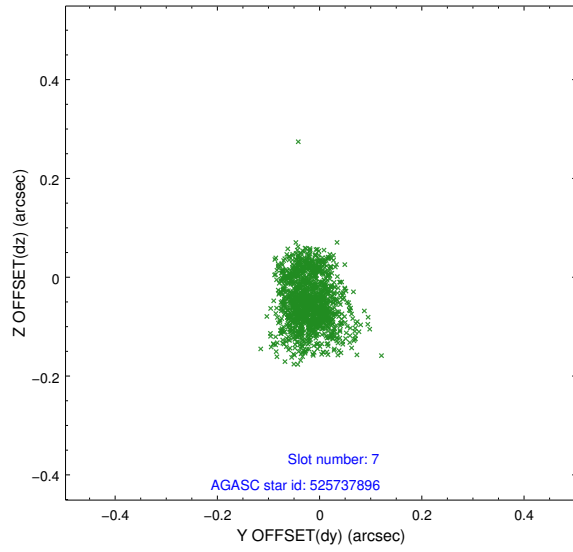
### 2.4.3 Slot 5



## 2.4.4 Slot 6

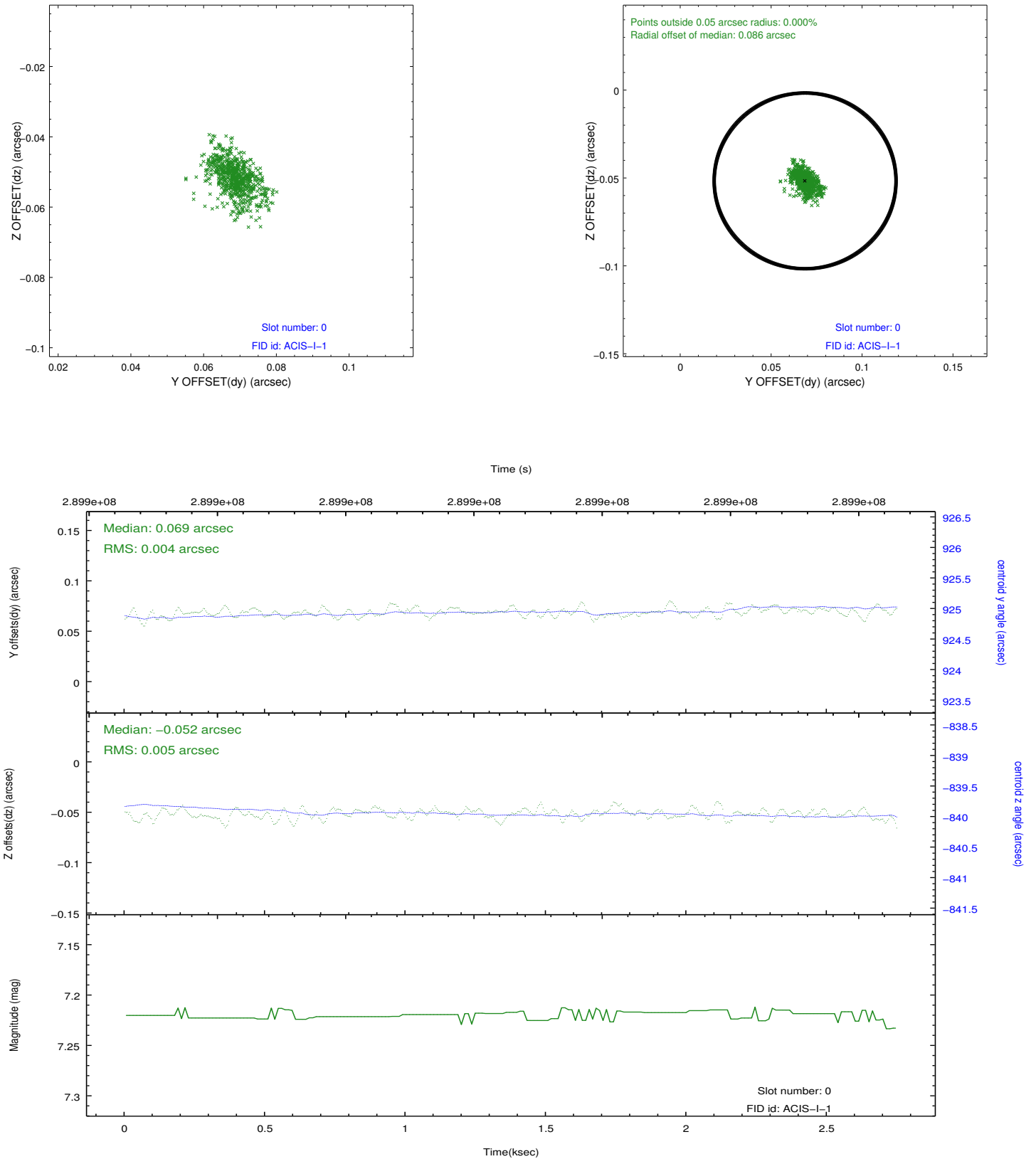


## 2.4.5 Slot 7

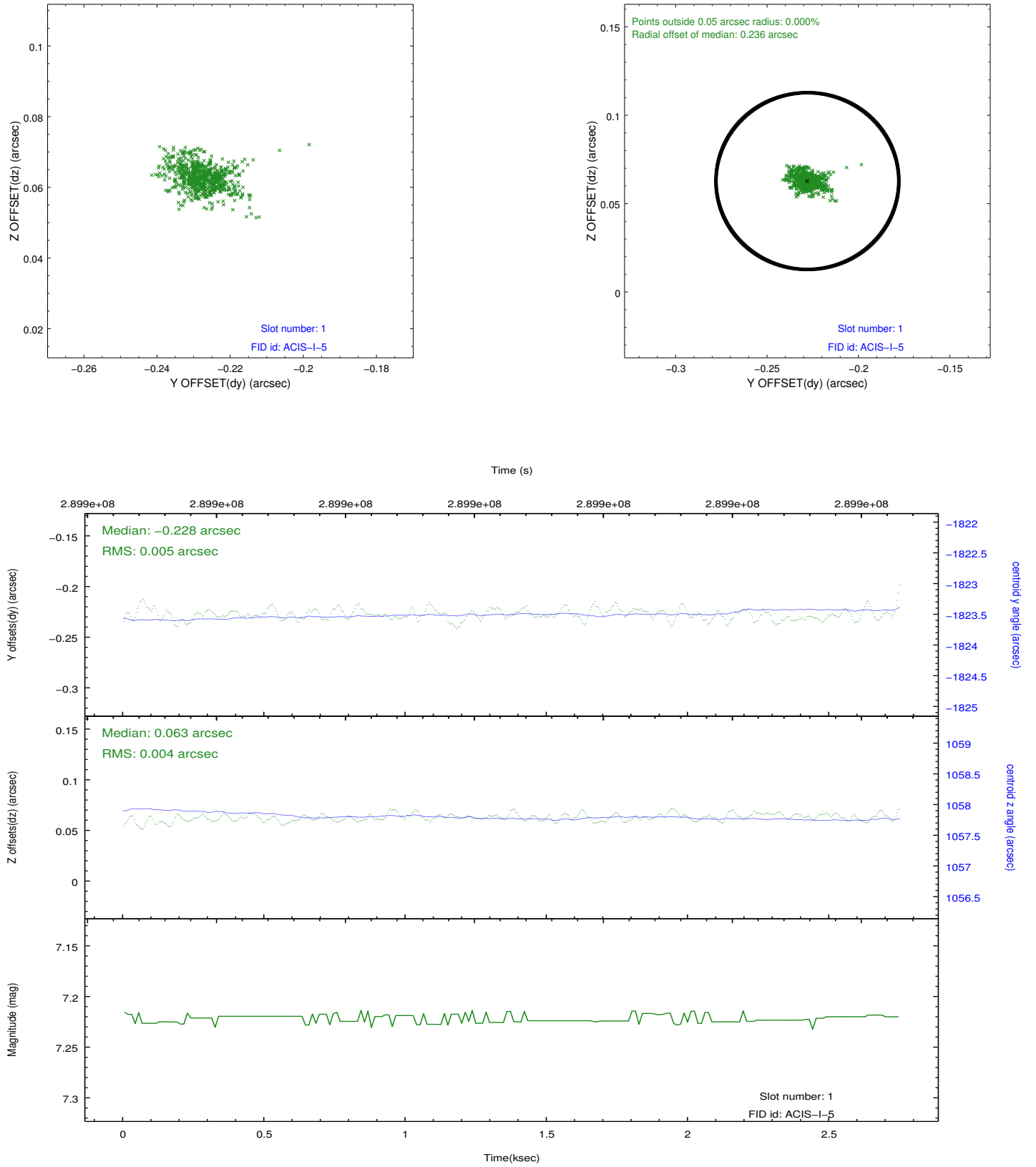


## 2.5 FID Slots

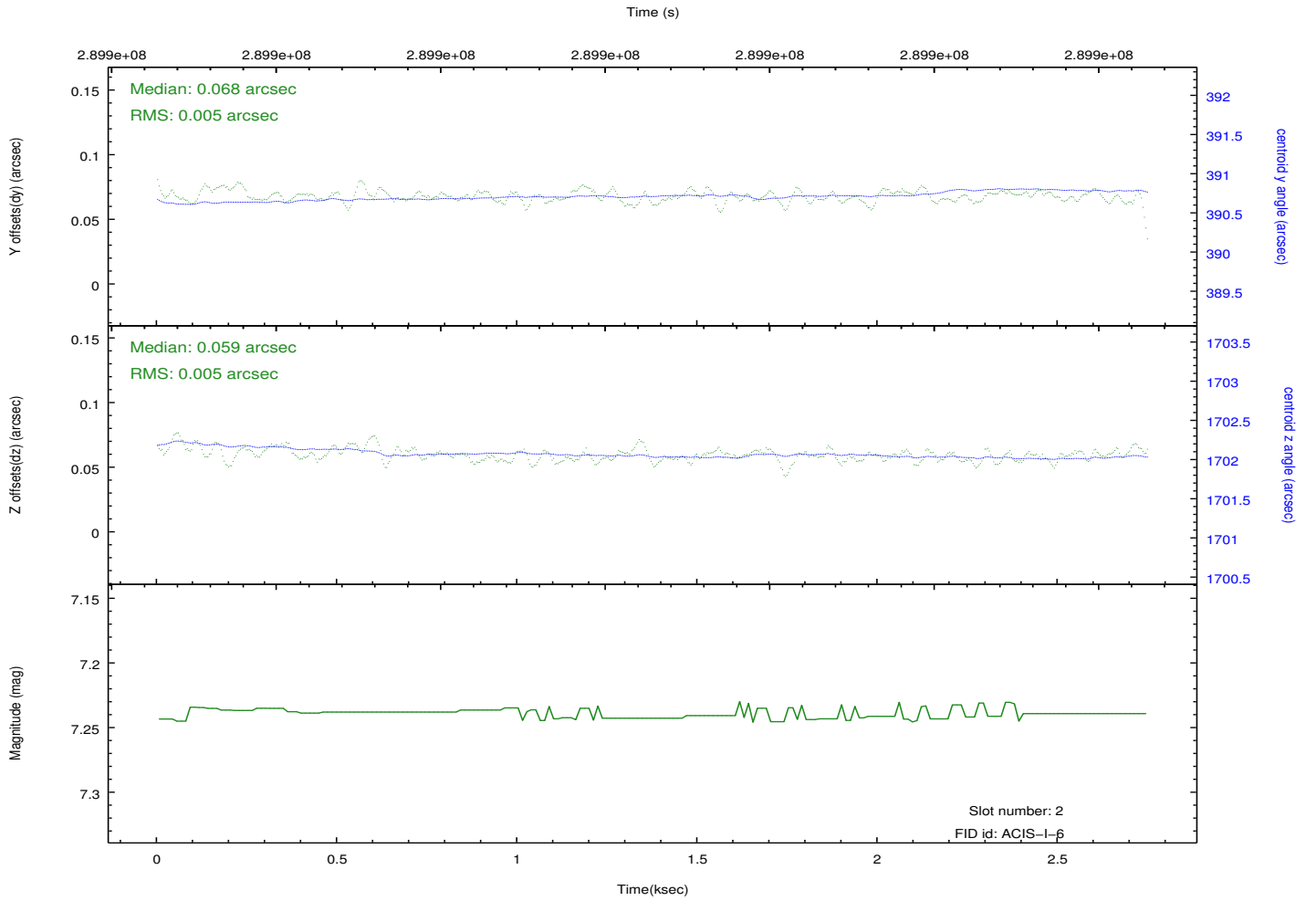
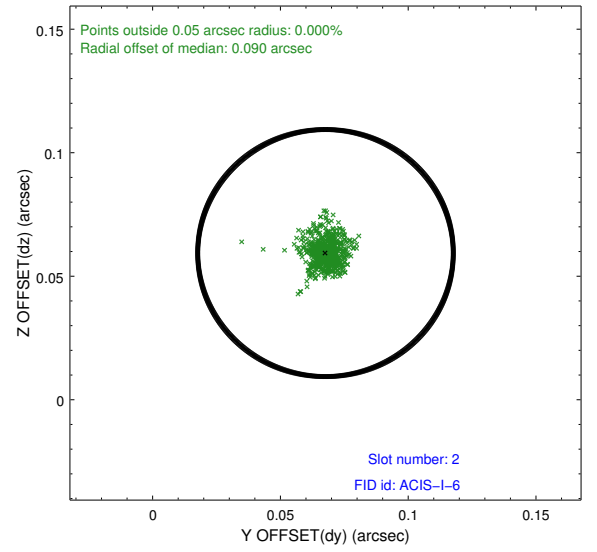
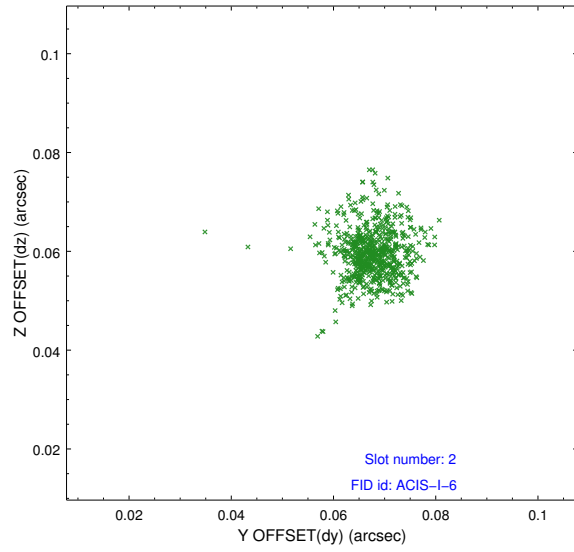
### 2.5.1 Slot 0



## 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)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2

## A.2 Comments

Charge time for this observation remains at original value of 2 ksec, although with the current processing the charge time would have been 1.7 ksec.

Ontime is less than charge time due to telemetry saturation resulting in dropped exposures.

Window preference met.