

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12894 - L2 Version 2  
Chandra X-Ray Center

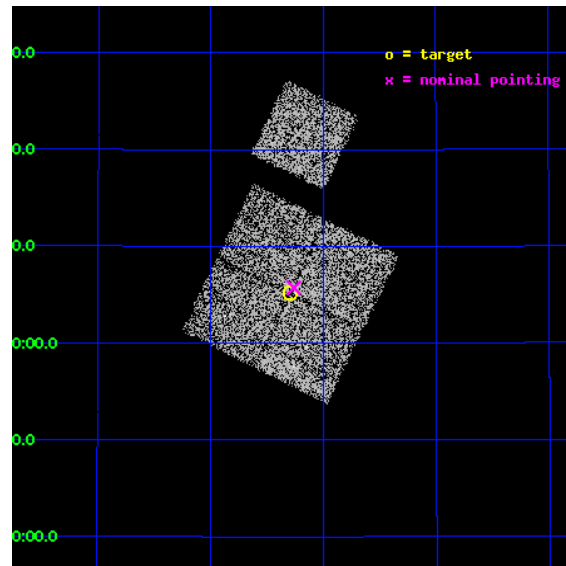
L2 Processing Date : Feb 27 2012

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# 1 Front

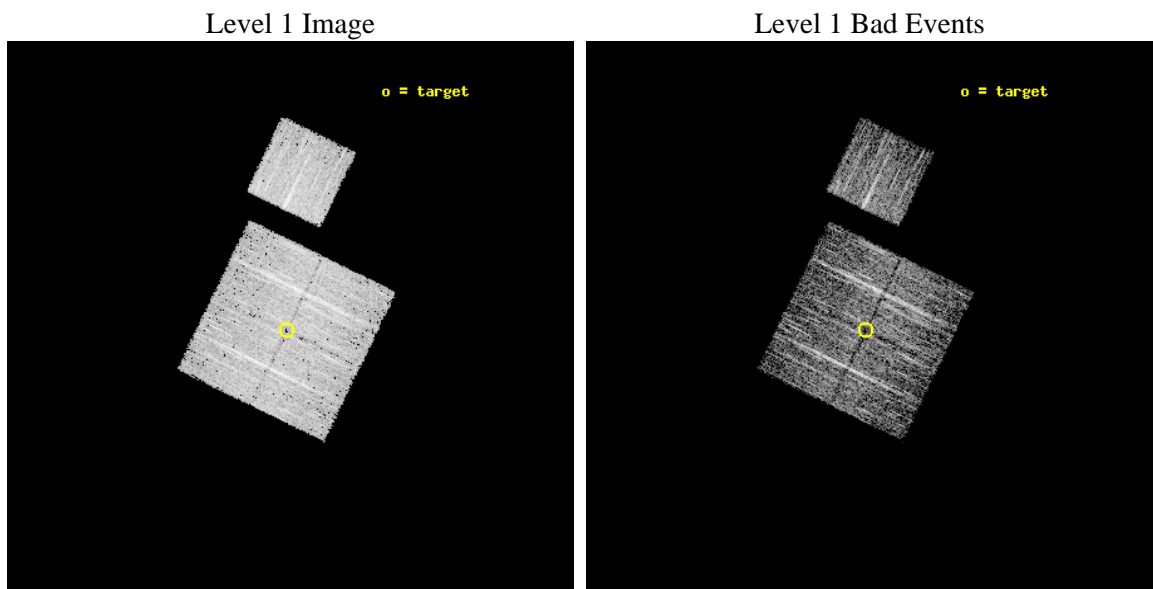
seq_num	801031	Sequence number
obs_id	12894	Observation id
title	The Outer Limits of Clusters with Chandra and Suzaku	Proposal titl
observer	Dr. Eric Miller	Principal investigator
object	A1914_Field4	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.57437	Observer's specified target RA [deg]
dec_targ	38.085807	Observer's specified target Dec [deg]
ra_nom	216.56535435337	Nominal RA [deg]
dec_nom	38.095319639722	Nominal Dec [deg]
roll_nom	26.037421487542	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5051.988901794	Sum of GTIs [s]
livetime	4985.9809475719	Livetime [s]
ontime0	5055.0888818502	Sum of GTIs [s]
ontime1	5051.988901794	Sum of GTIs [s]
ontime2	5058.3119222522	Sum of GTIs [s]
ontime3	5058.3529622555	Sum of GTIs [s]
ontime6	5058.1888022423	Sum of GTIs [s]
l2events	19585	Number of level 2 events



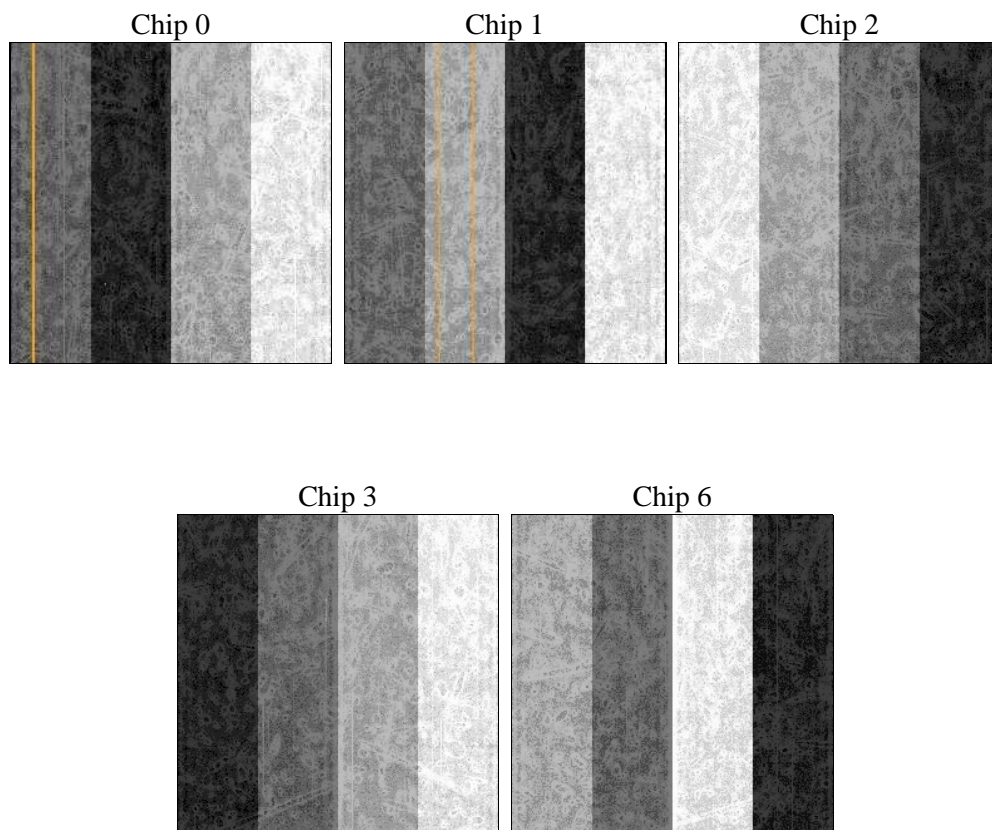
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.396000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5051.988901794	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	5055.0888818502	Sum of GTIs [s]
date	2012-02-27T11:57:11	Date and time of file creation	ontime1	5051.988901794	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5058.3119222522	Sum of GTIs [s]
			ontime3	5058.3529622555	Sum of GTIs [s]
			ontime6	5058.1888022423	Sum of GTIs [s]
			l1events	155035	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	29634	29639	31336	31897	32529
rejected events	25250	24626	26983	27569	27967
rejected %	85%	83%	86%	86%	85%

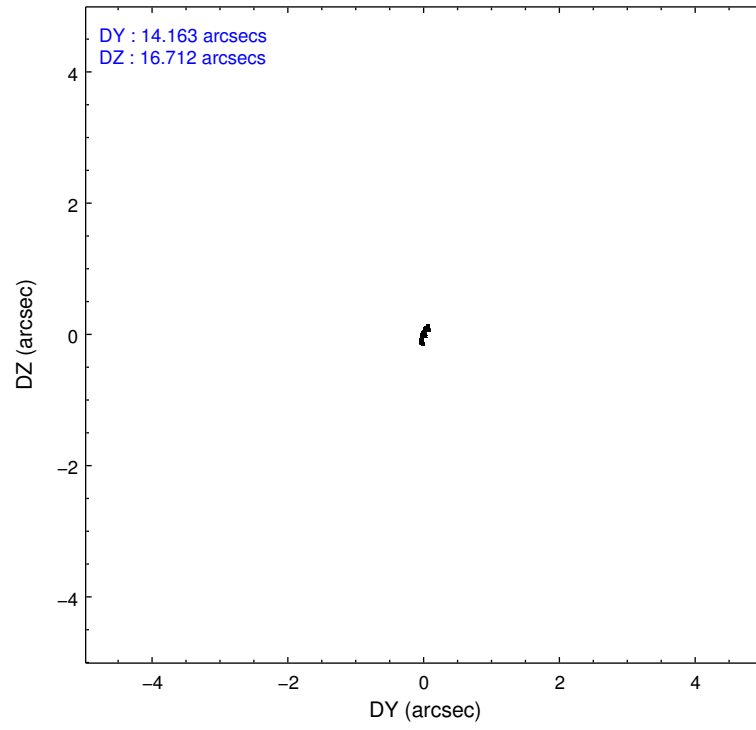
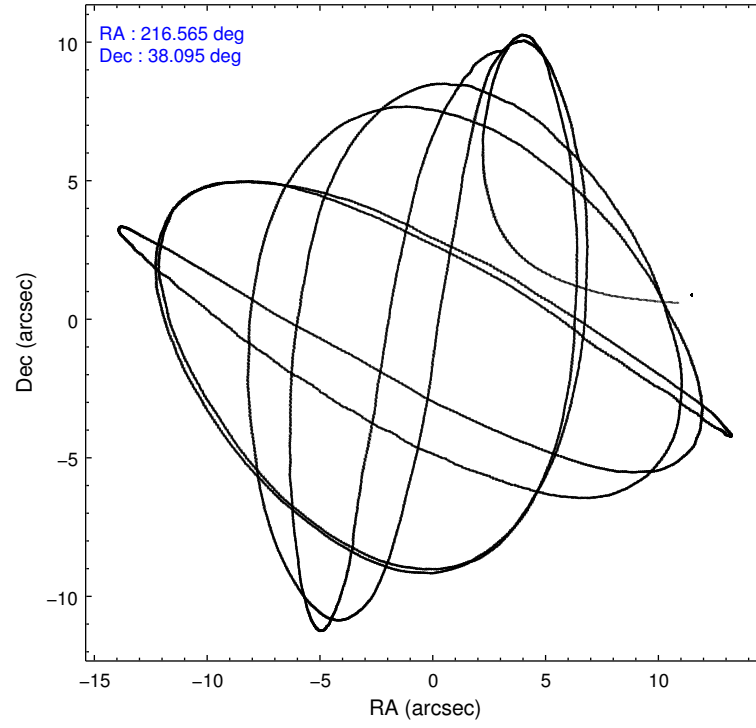
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1786	2206	1889	1909	2005
	6%	7%	6%	5%	6%
grade 1 events	21	14	19	26	17
	0%	0%	0%	0%	0%
grade 2 events	1029	1118	941	849	931
	3%	3%	3%	2%	2%
grade 3 events	413	448	394	421	406
	1%	1%	1%	1%	1%
grade 4 events	393	392	370	396	391
	1%	1%	1%	1%	1%
grade 5 events	1395	1495	1405	1511	1514
	4%	5%	4%	4%	4%
grade 6 events	772	854	765	754	832
	2%	2%	2%	2%	2%
grade 7 events	23825	23112	25553	26031	26433
	80%	77%	81%	81%	81%

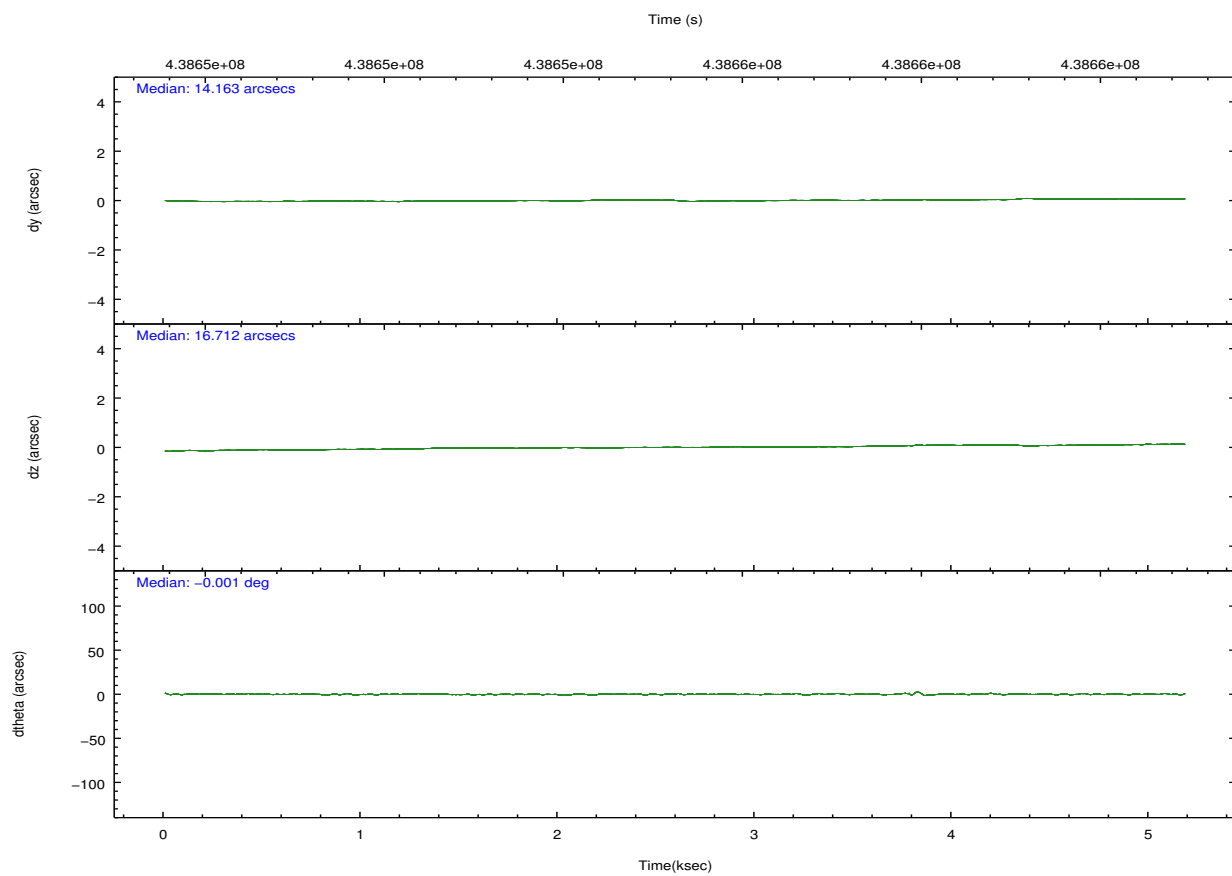
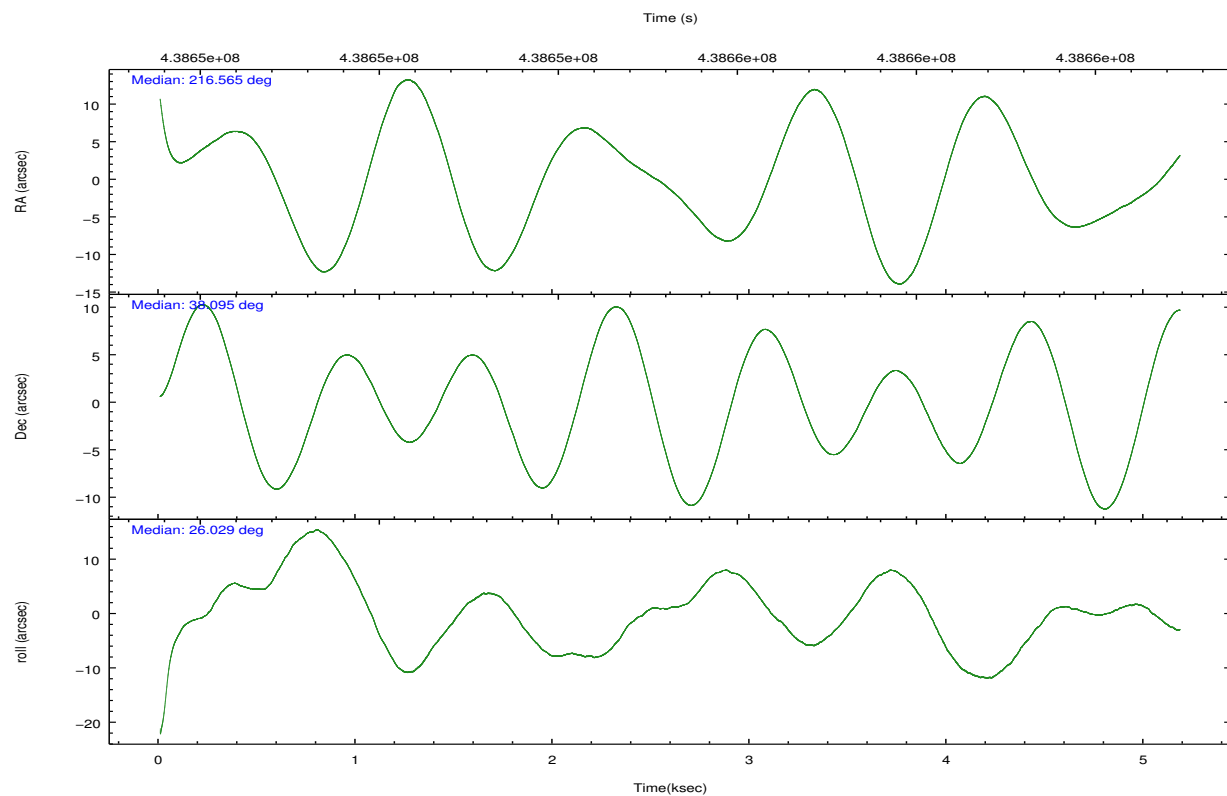


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	216.545937	216.5653543533681	CCD I2 on	Y	Y
[deg] Pointing Dec	38.072378	38.09531963972216	CCD I3 on	Y	Y
[deg] Pointing Roll	25.840768	26.03742148754189	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	438652220.184000	438651282.70662	CCD S5 on	N	N
Observation start date	2011-11-25T23:49:14	2011-11-25T23:34:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	438657221.184000	438657458.84444	On-chip summing requested	N	N
Observation end date	2011-11-26T01:12:35	2011-11-26T01:17:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



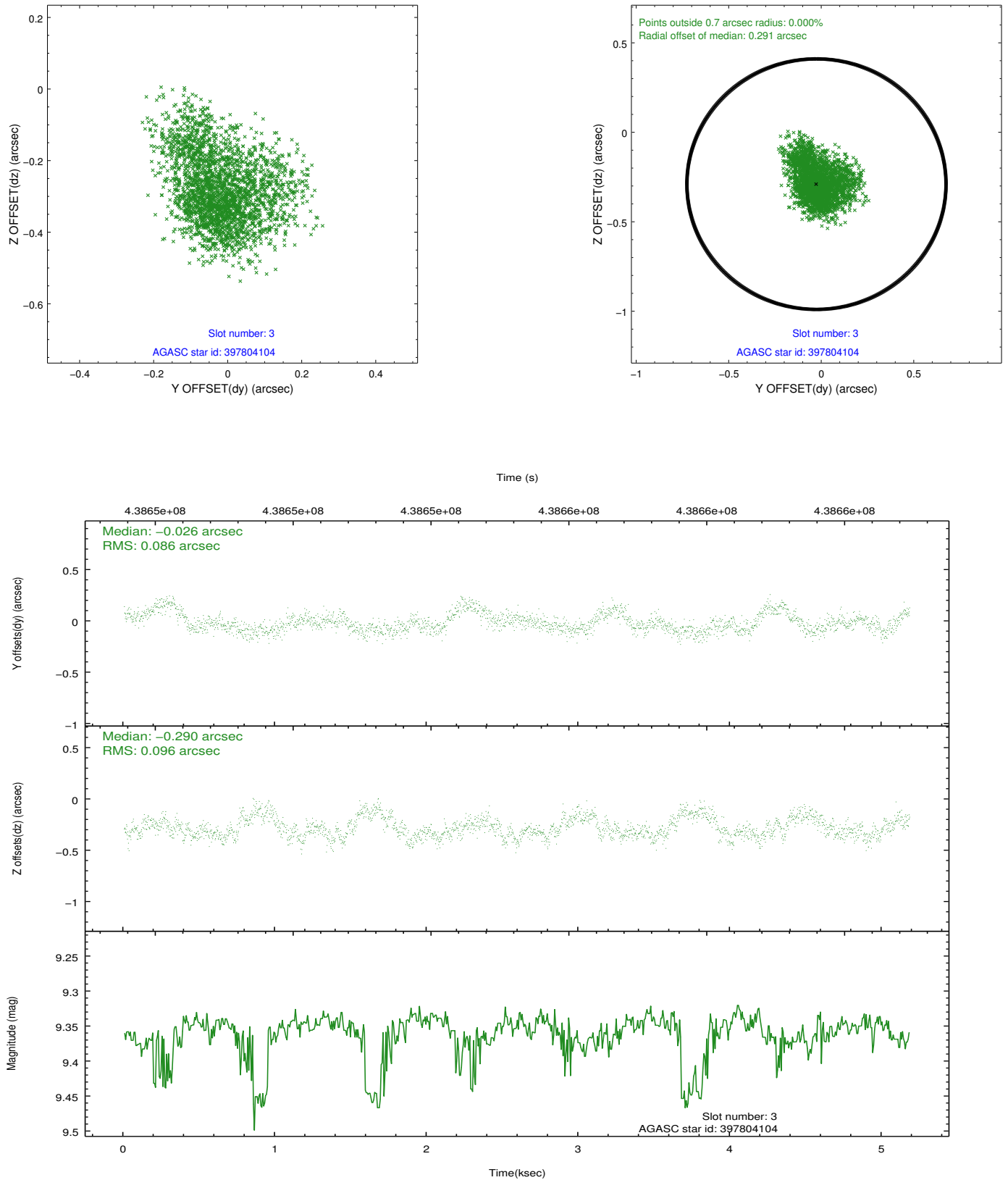


### Slot Statistics

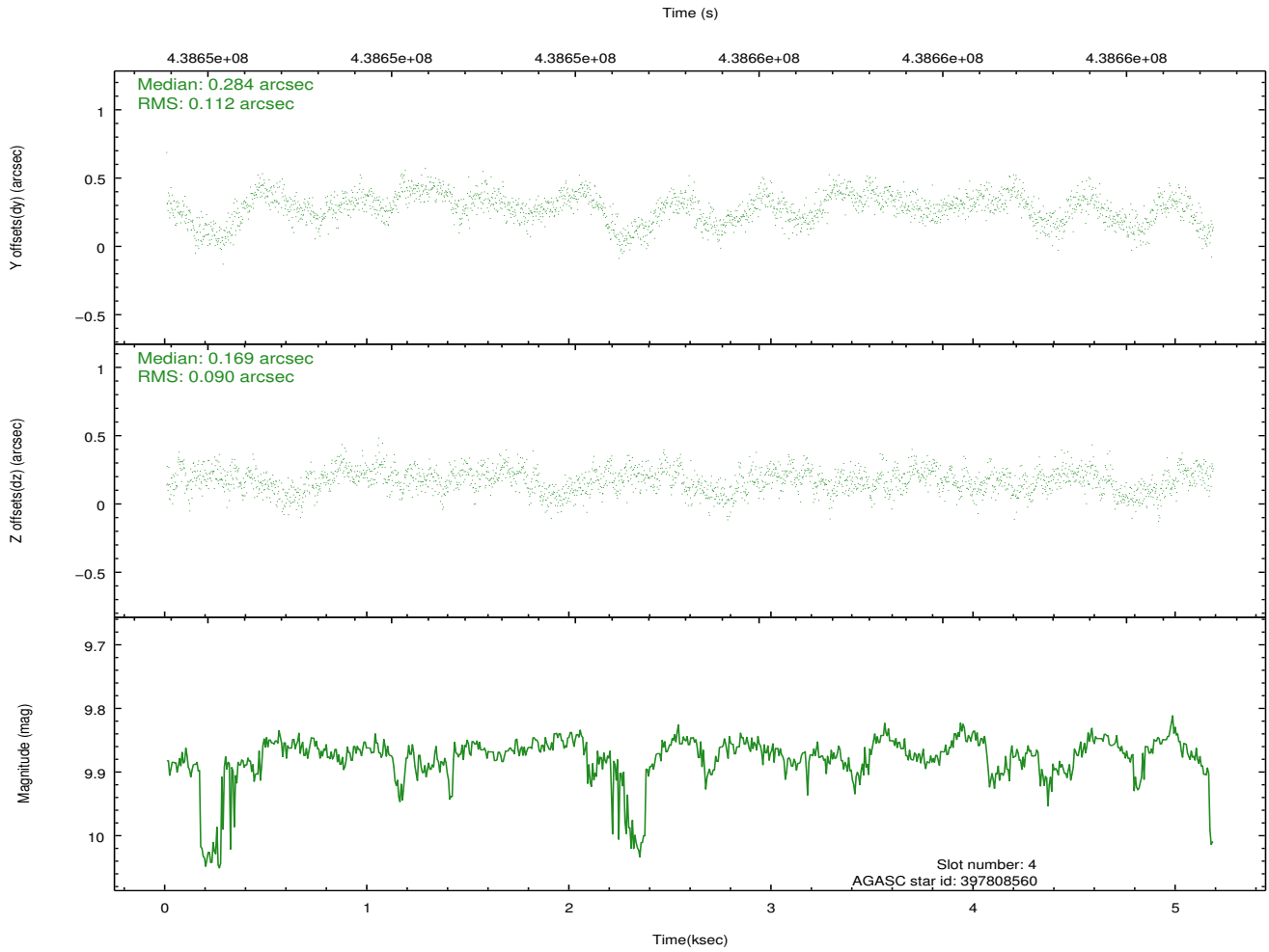
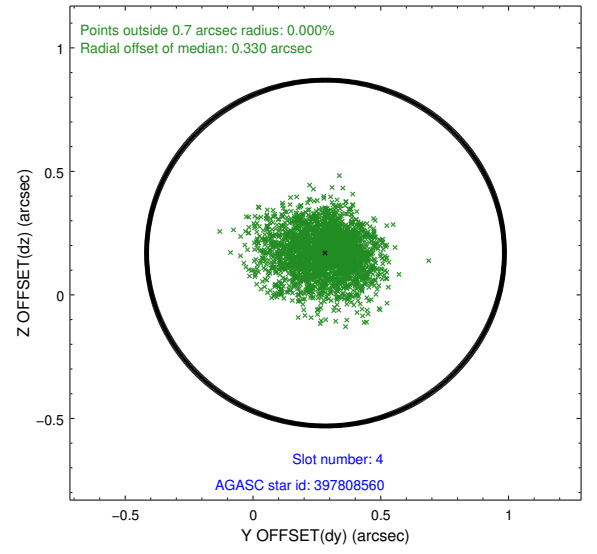
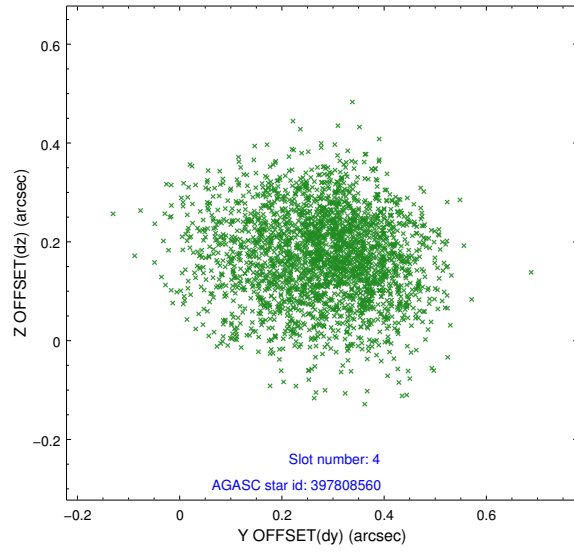
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	1263	0.074	-0.042	0.007	0.012	0.000000	0.000000	925.37	-840.42
1	FID	ACIS-I-5	7.04	1263	-0.222	0.073	0.006	0.011	0.000000	0.000000	-1822.36	1056.65
2	FID	ACIS-I-6	7.04	1263	0.057	0.039	0.007	0.014	0.000000	0.000000	389.67	1702.40
3	GUIDE	397804104	9.36	2524	-0.026	-0.290	0.140	0.222	216.088268	38.455118	-559.38	1806.19
4	GUIDE	397808560	9.87	2518	0.284	0.169	0.153	0.250	216.564463	37.977903	-101.19	-328.41
5	GUIDE	397940208	9.74	2524	-0.338	0.131	0.137	0.216	217.129334	38.261499	1783.14	-101.21
6	GUIDE	397943760	7.95	2525	-0.146	0.315	0.092	0.147	217.039857	37.556695	462.33	-2281.65
7	GUIDE	397941088	9.72	2526	0.226	-0.335	0.191	0.322	217.667965	37.769126	2407.38	-2358.04

## 2.4 Star Slots

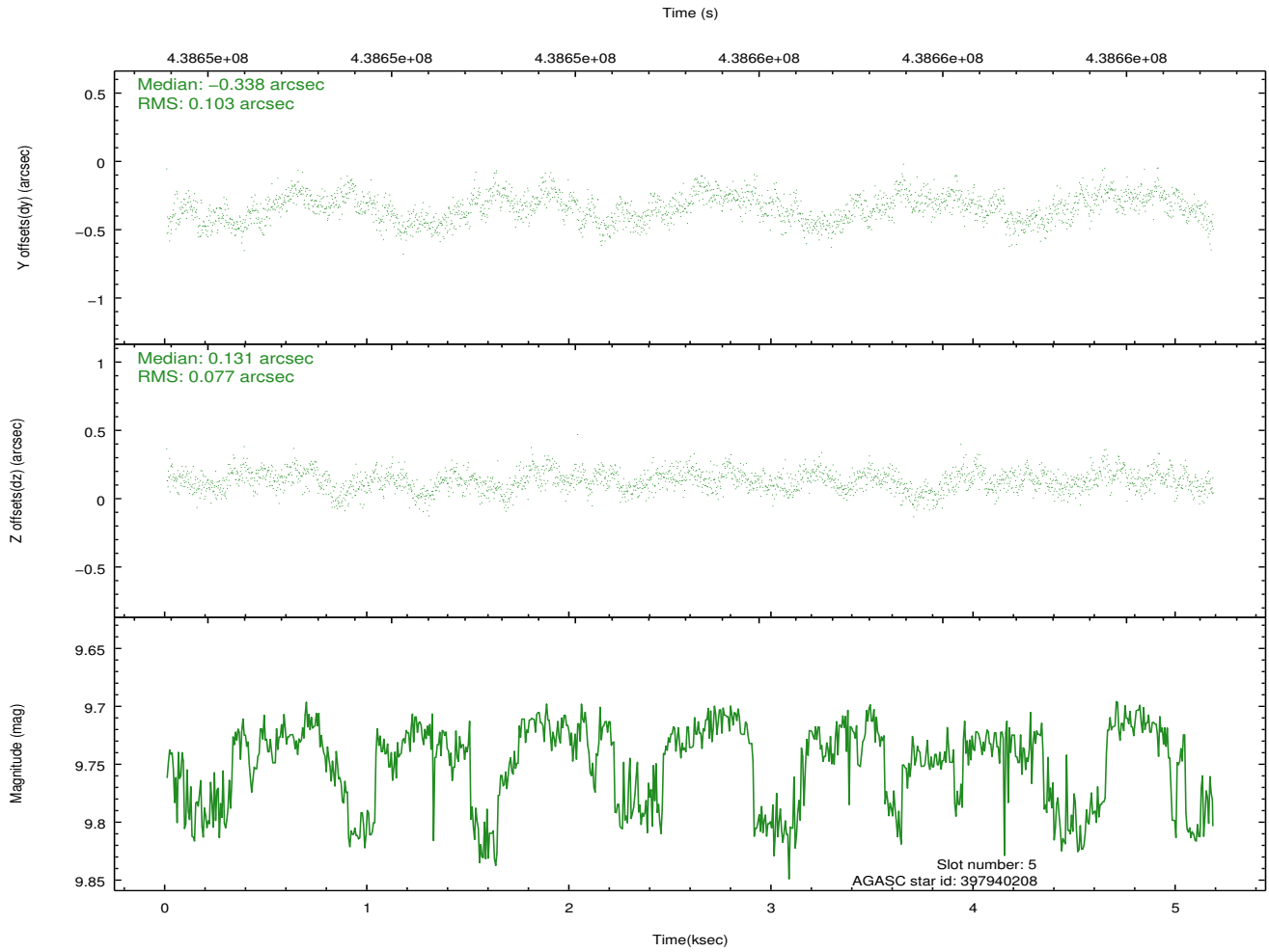
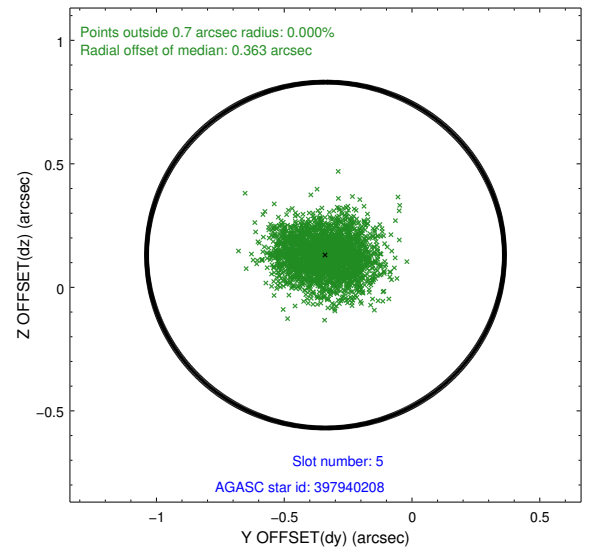
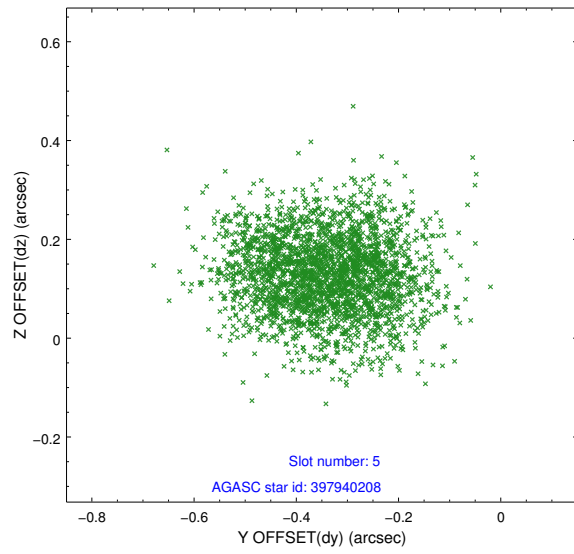
### 2.4.1 Slot 3



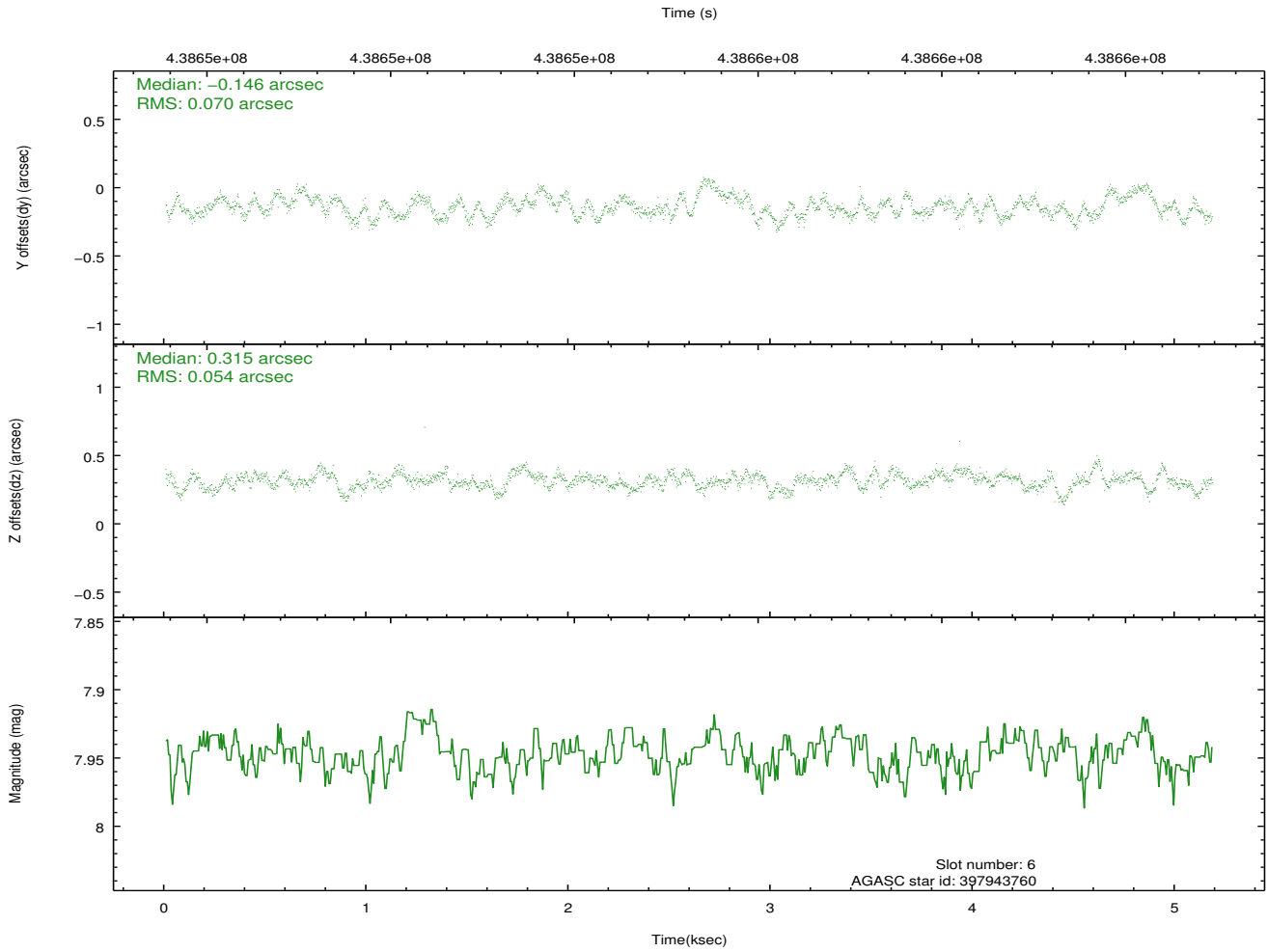
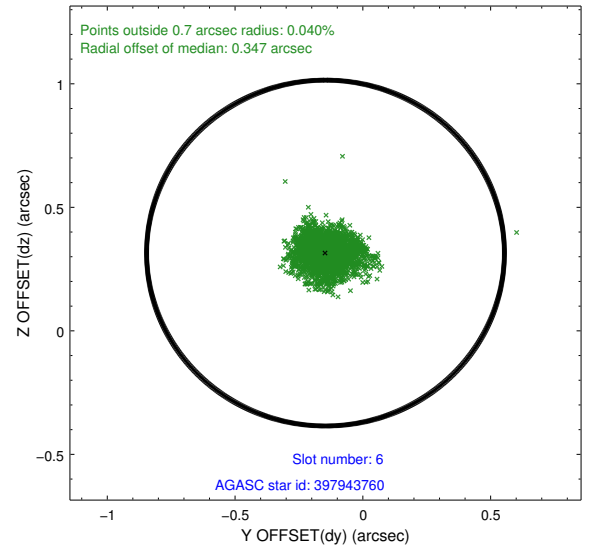
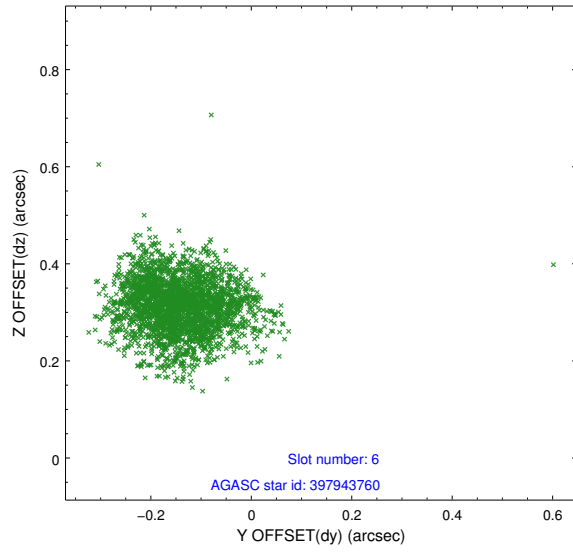
## 2.4.2 Slot 4



### 2.4.3 Slot 5

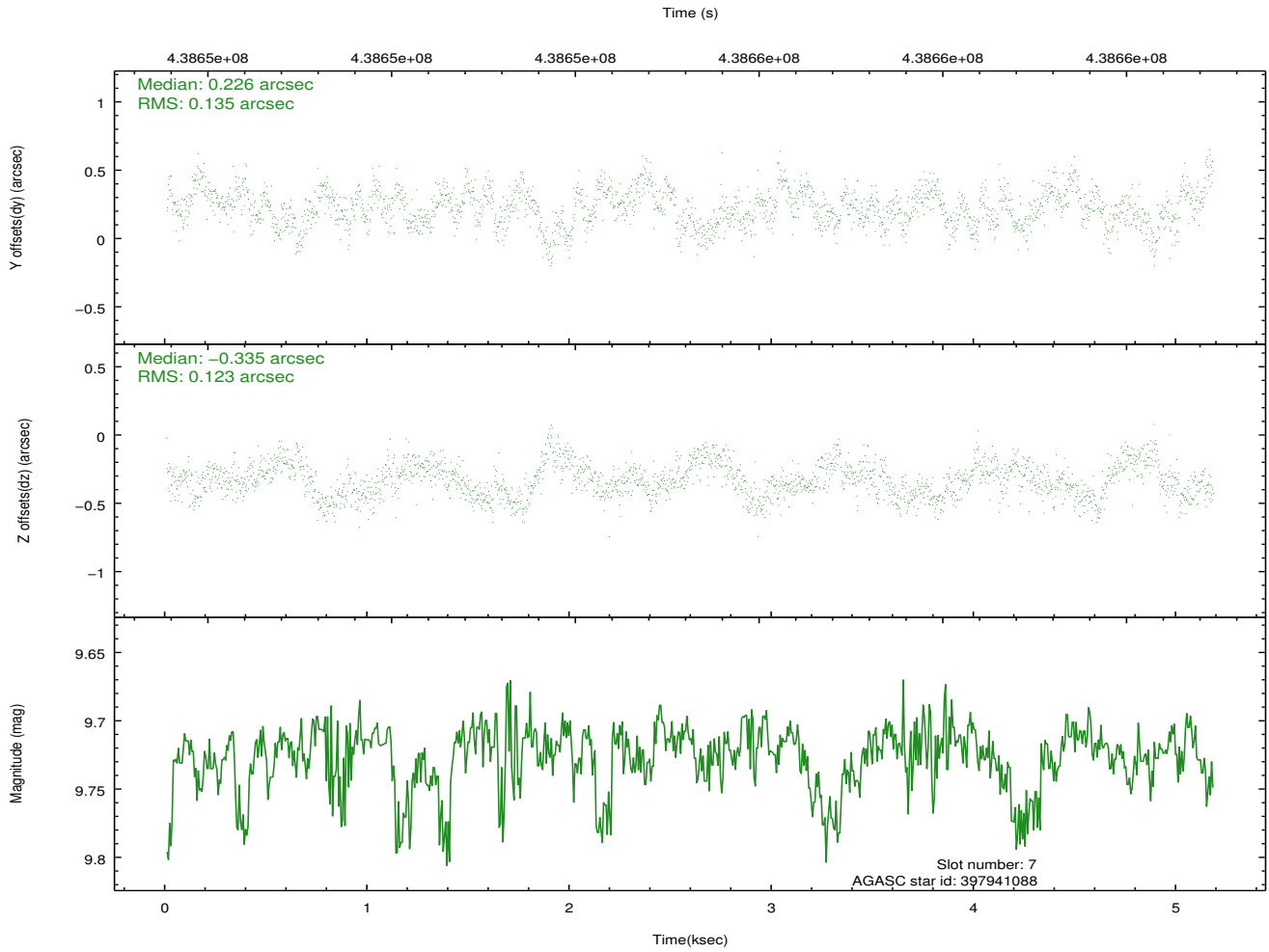
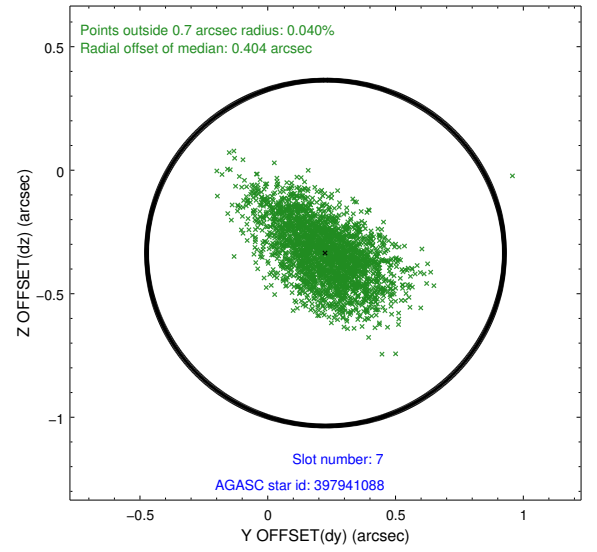
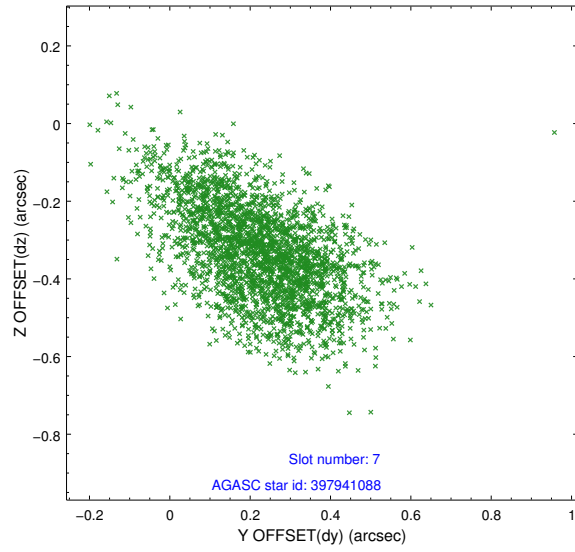


## 2.4.4 Slot 6



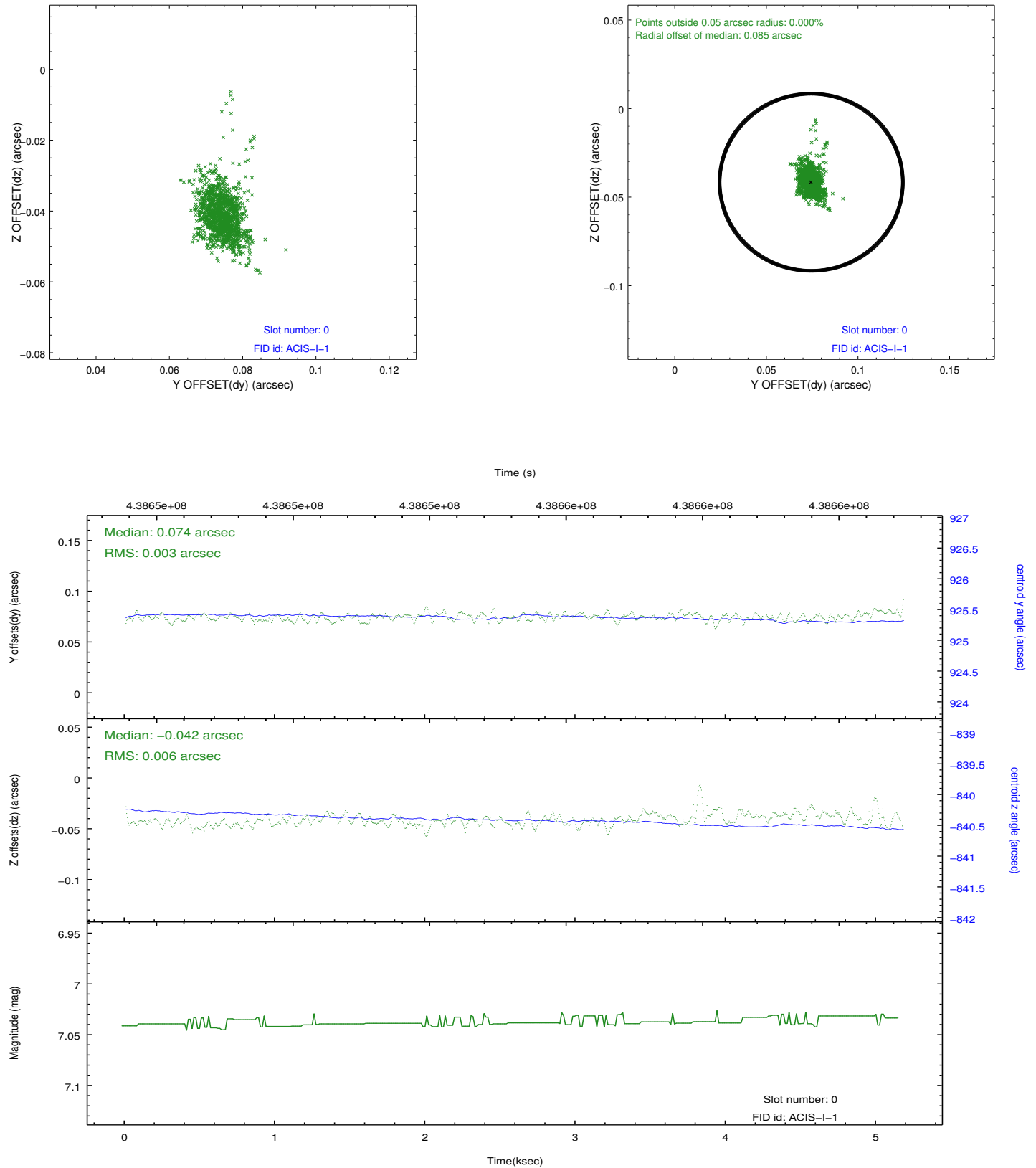


## 2.4.5 Slot 7

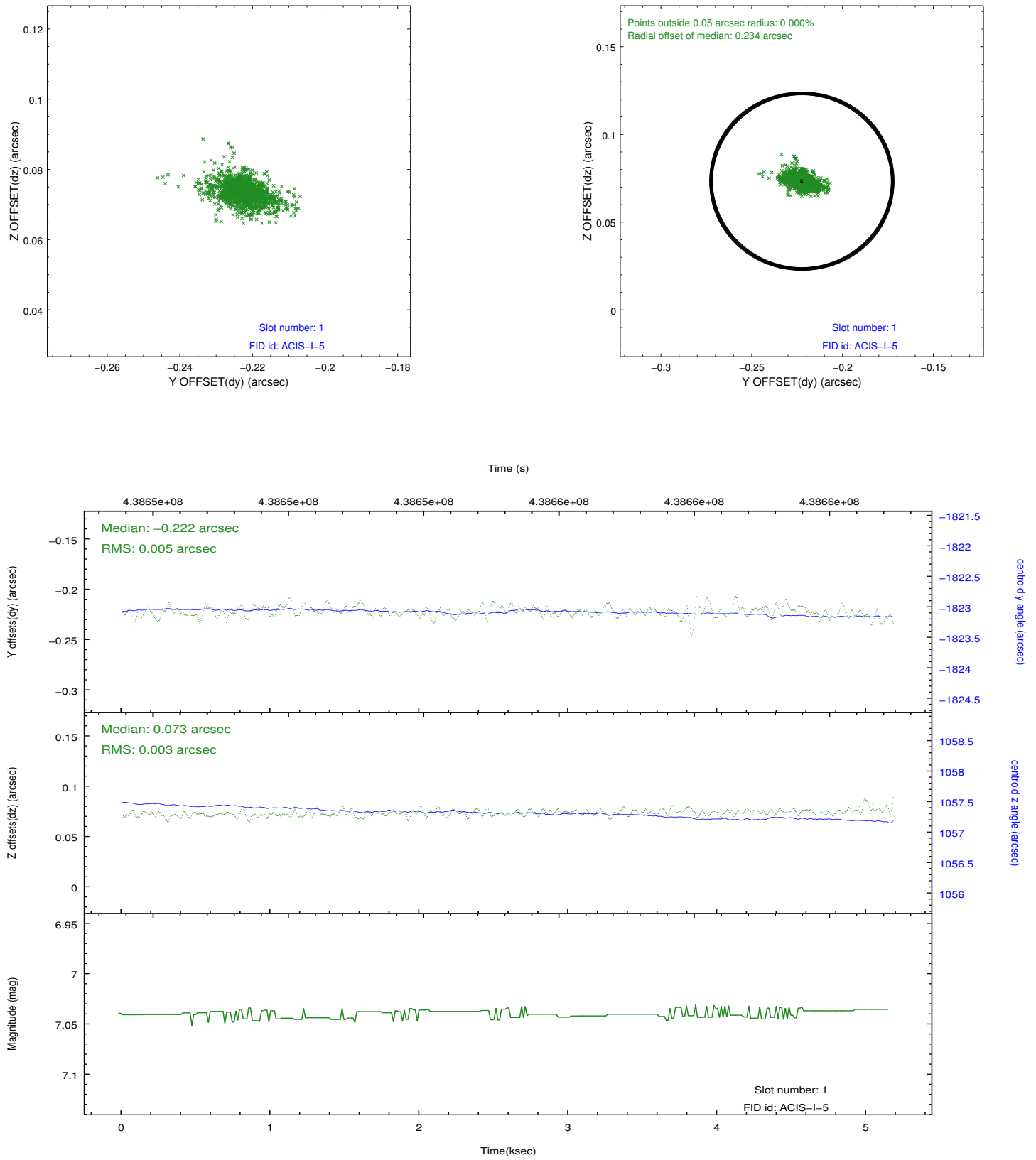


## 2.5 FID Slots

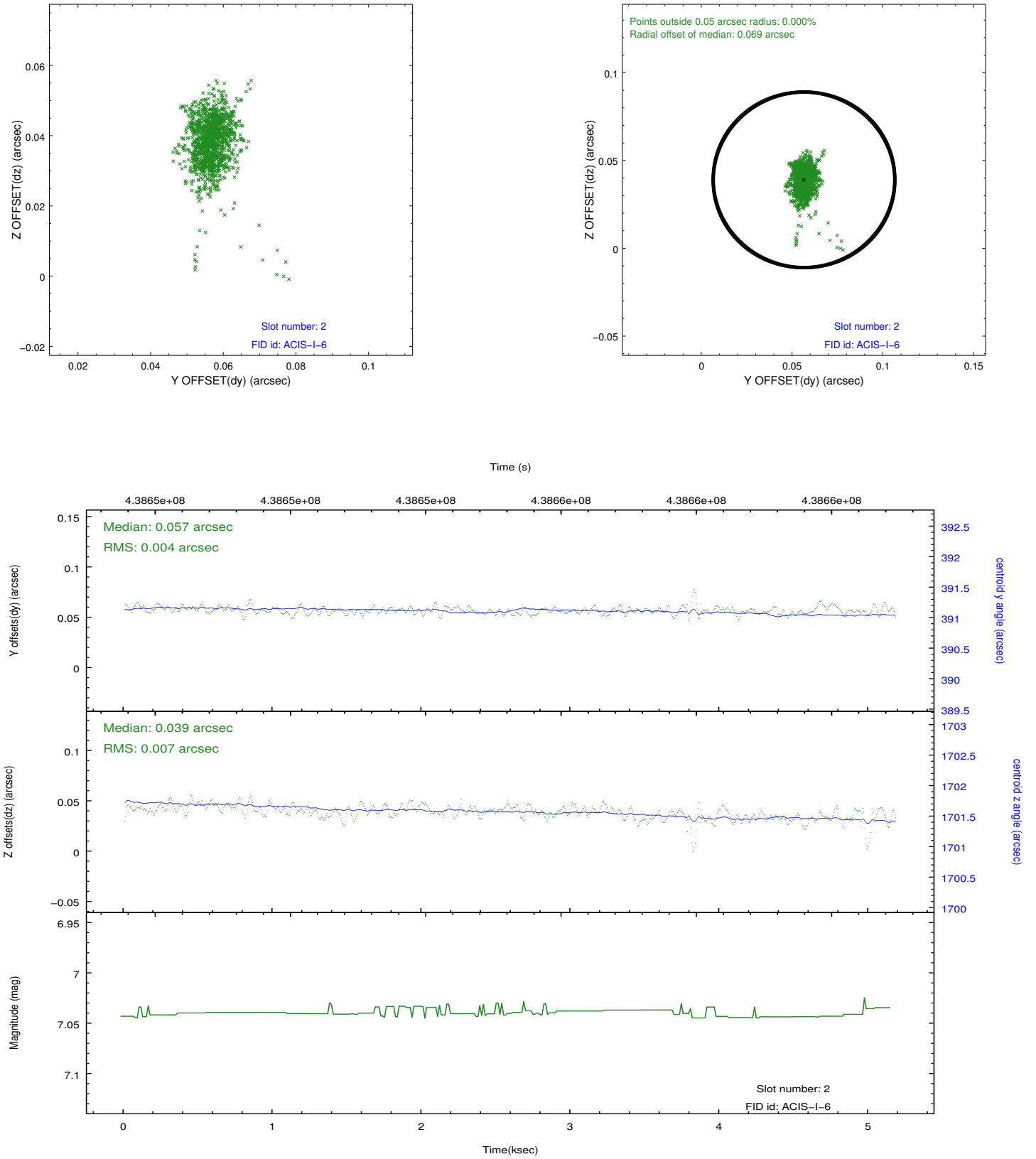
### 2.5.1 Slot 0



## 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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0519889006019

### A.2 Comments