

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10750 - L2 Version 2  
Chandra X-Ray Center

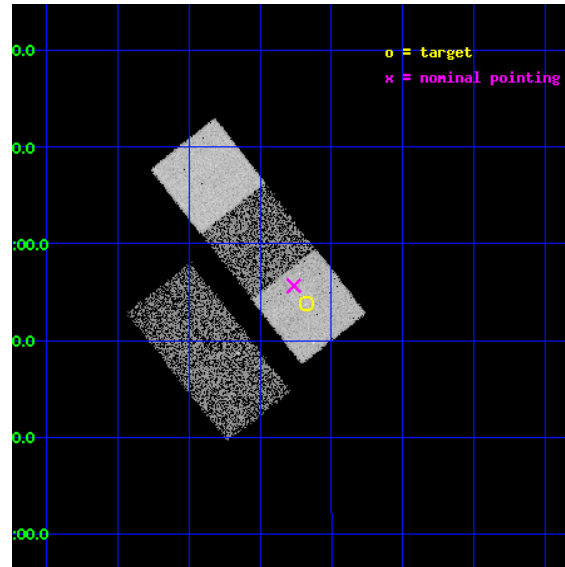
L2 Processing Date : May 28 2012

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# 1 Front

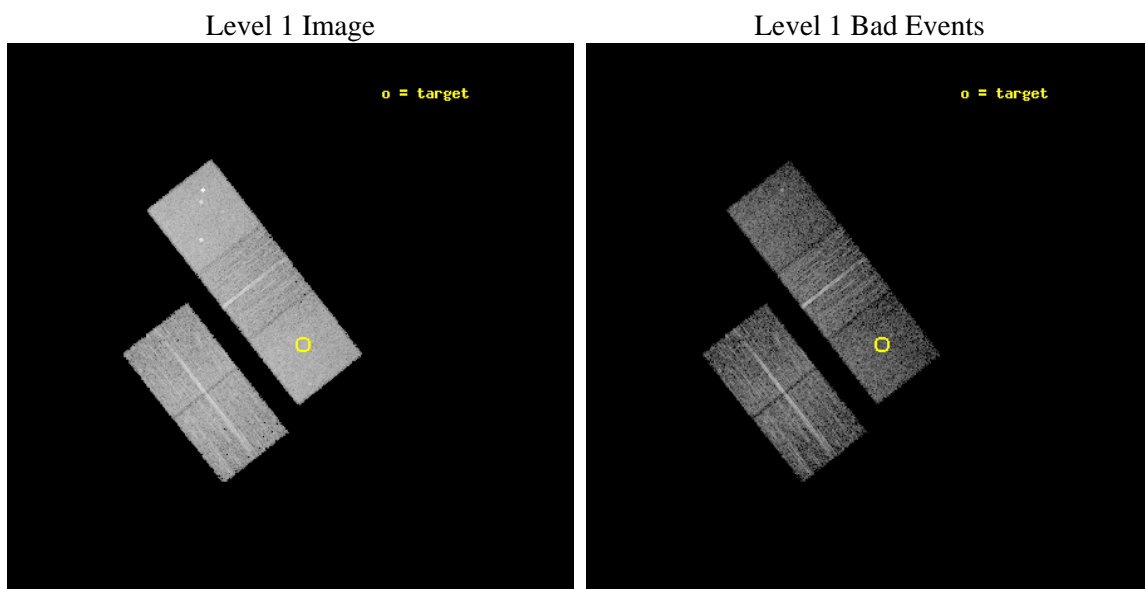
seq_num	900897	Sequence number
obs_id	10750	Observation id
title	The Origin and Evolution of Fossil Groups	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0856+0553	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	134.169583	Observer's specified target RA [deg]
dec_targ	5.8965	Observer's specified target Dec [deg]
ra_nom	134.19097310555	Nominal RA [deg]
dec_nom	5.9275291190227	Nominal Dec [deg]
roll_nom	51.846641094703	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5536.6000425816	Sum of GTIs [s]
livetime	5464.2602870396	Livetime [s]
ontime2	5536.6000425816	Sum of GTIs [s]
ontime3	5536.6000425816	Sum of GTIs [s]
ontime5	5536.6000425816	Sum of GTIs [s]
ontime6	5536.6000425816	Sum of GTIs [s]
ontime7	5536.6000425816	Sum of GTIs [s]
l2events	65502	Number of level 2 events



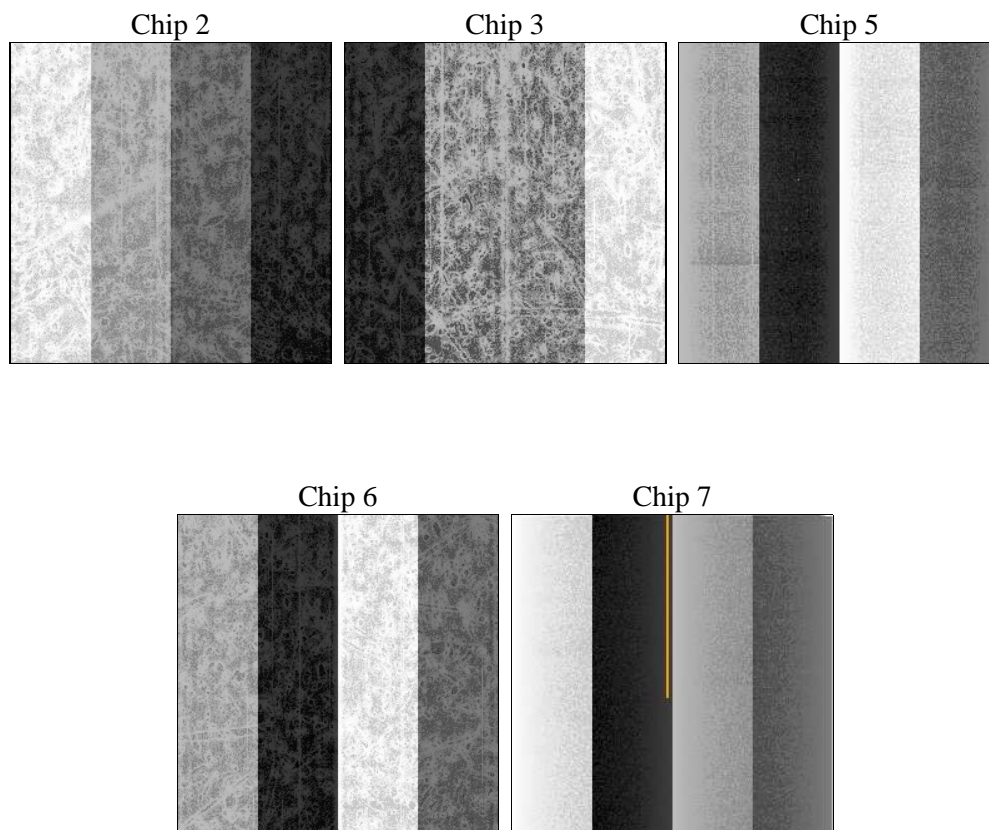
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5536.6000425816	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5536.6000425816	Sum of GTIs [s]
date	2012-05-28T13:29:41	Date and time of file creation	ontime3	5536.6000425816	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5536.6000425816	Sum of GTIs [s]
			ontime6	5536.6000425816	Sum of GTIs [s]
			ontime7	5536.6000425816	Sum of GTIs [s]
			l1events	254421	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	45652	44186	65185	46676	52722
rejected events	41111	39892	31991	41959	28412
rejected %	90%	90%	49%	89%	53%

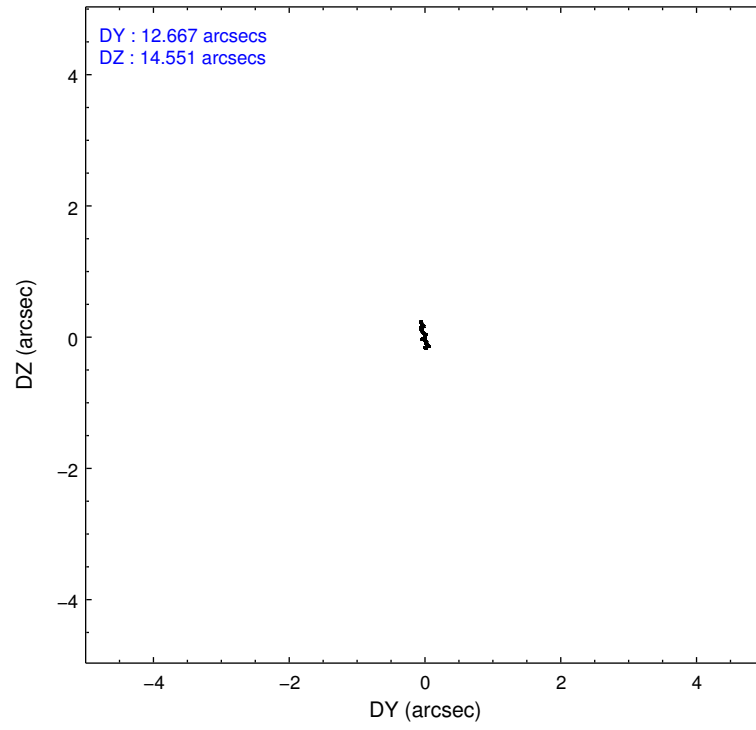
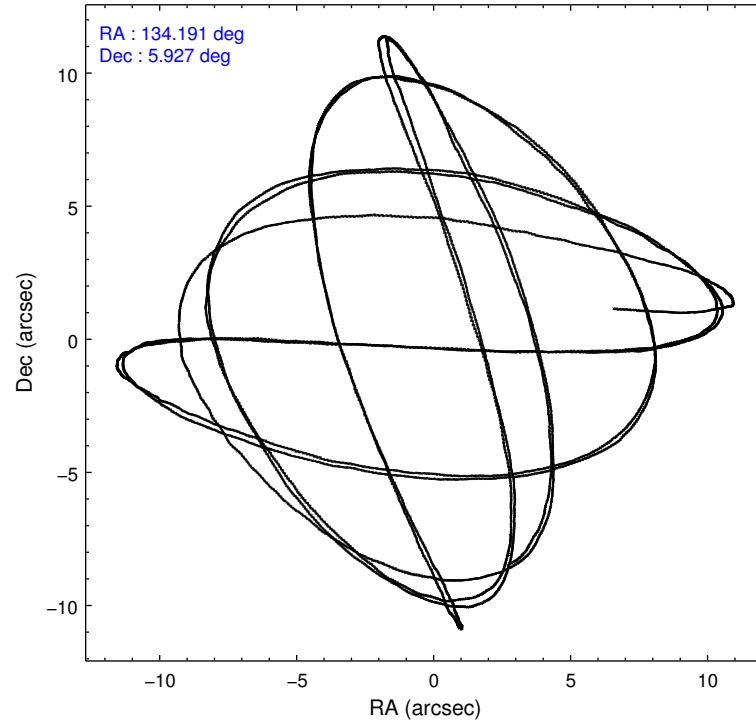
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	1559	1555	4190	1628	2378
	3%	3%	6%	3%	4%
grade 1 events	29	30	227	25	70
	0%	0%	0%	0%	0%
grade 2 events	1116	964	9792	1057	5068
	2%	2%	15%	2%	9%
grade 3 events	509	470	1339	527	2140
	1%	1%	2%	1%	4%
grade 4 events	516	475	1287	510	2237
	1%	1%	1%	1%	4%
grade 5 events	1573	1852	5055	1861	5318
	3%	4%	7%	3%	10%
grade 6 events	845	833	16604	997	12500
	1%	1%	25%	2%	23%
grade 7 events	39505	38007	26691	40071	23011
	86%	86%	40%	85%	43%

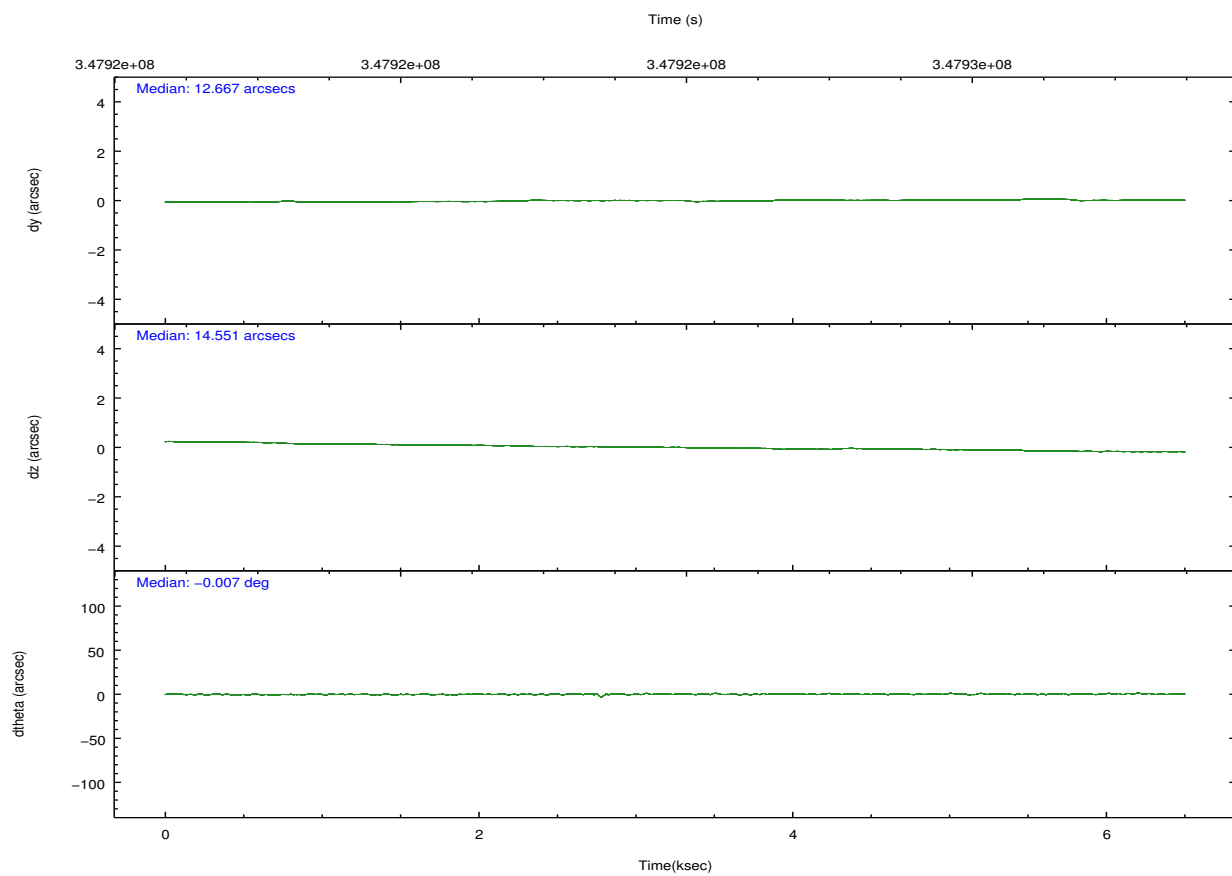
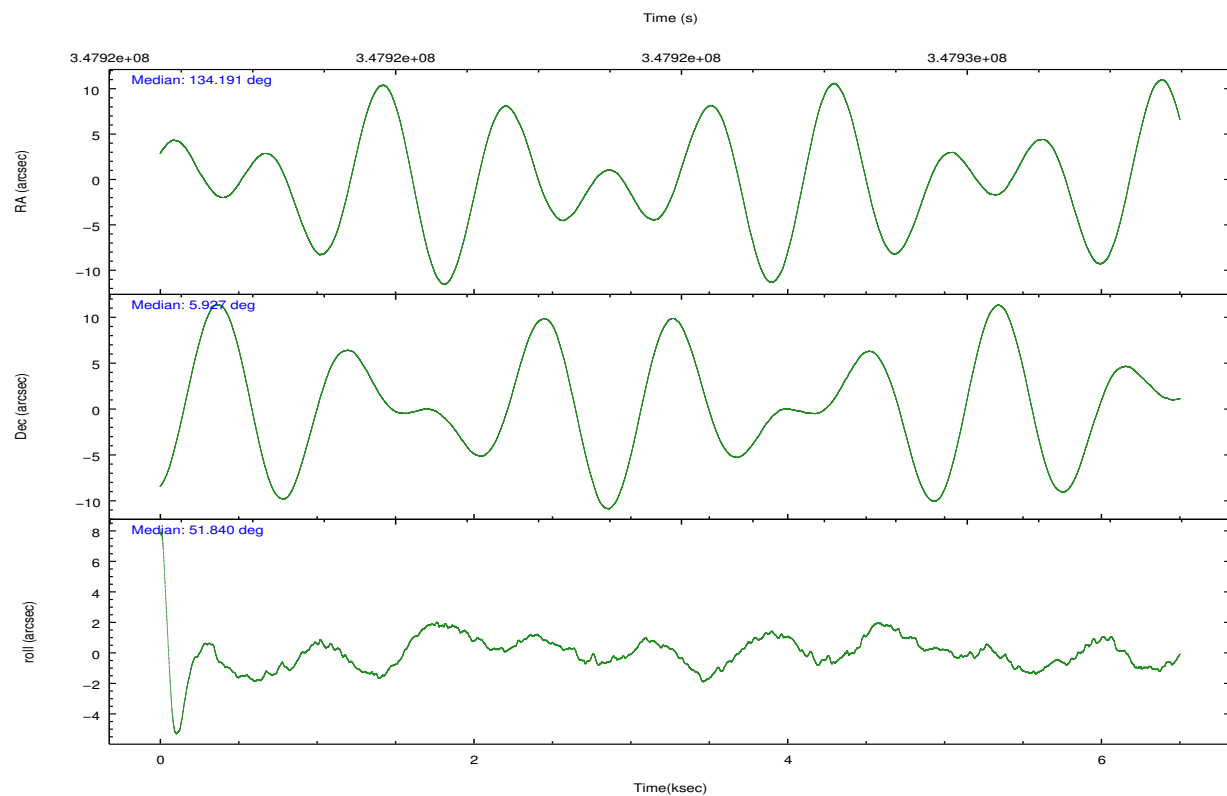


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	134.187380	134.1909731055492	CCD I2 on	O1	Y
[deg] Pointing Dec	5.900362	5.927529119022743	CCD I3 on	O2	Y
[deg] Pointing Roll	51.690384	51.84664109470284	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	347921674.184000	347920332.76051	CCD S5 on	N	N
Observation start date	2009-01-09T20:53:28	2009-01-09T20:32:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	347927174.184000	347928680.87343	On-chip summing requested	N	N
Observation end date	2009-01-09T22:25:08	2009-01-09T22:51:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



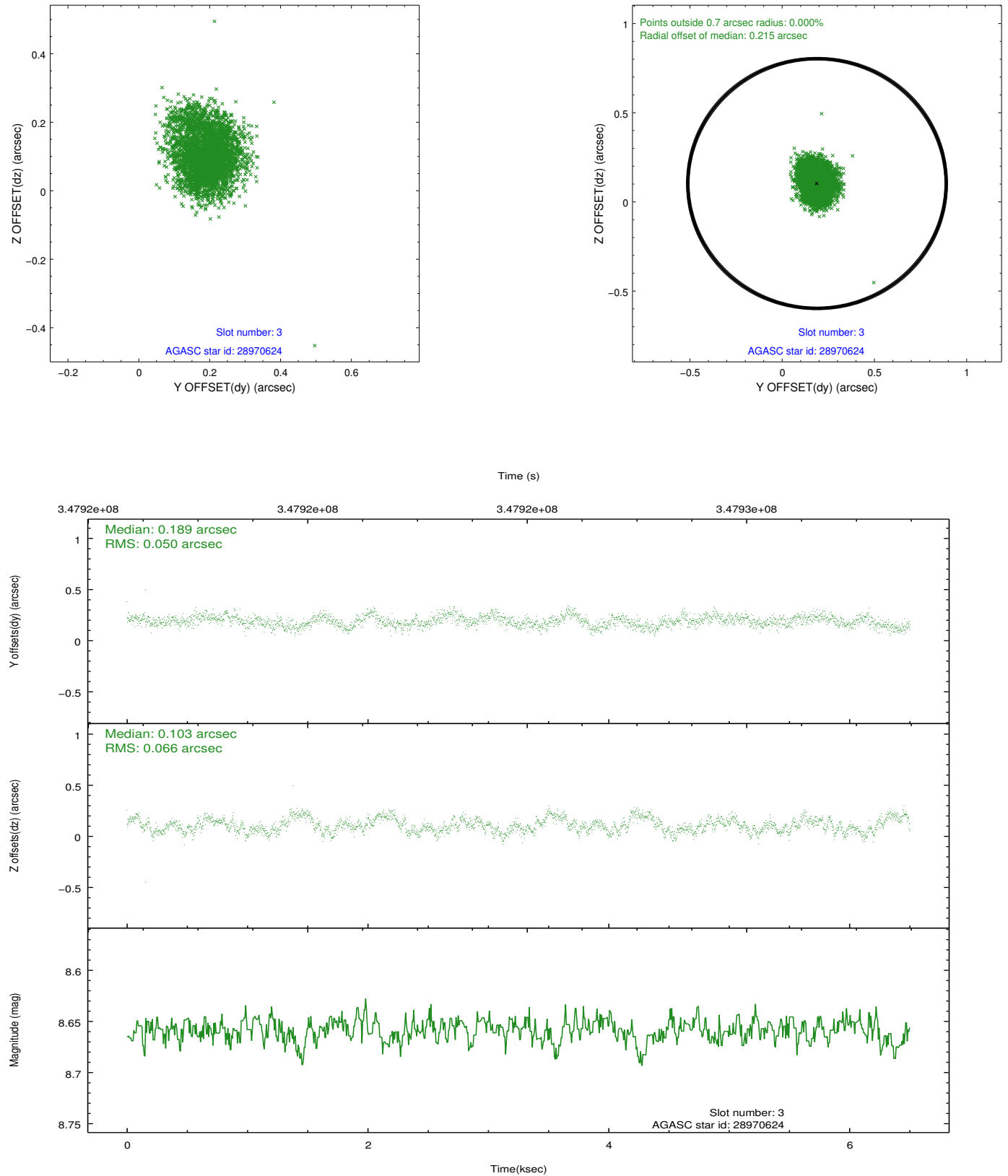


### Slot Statistics

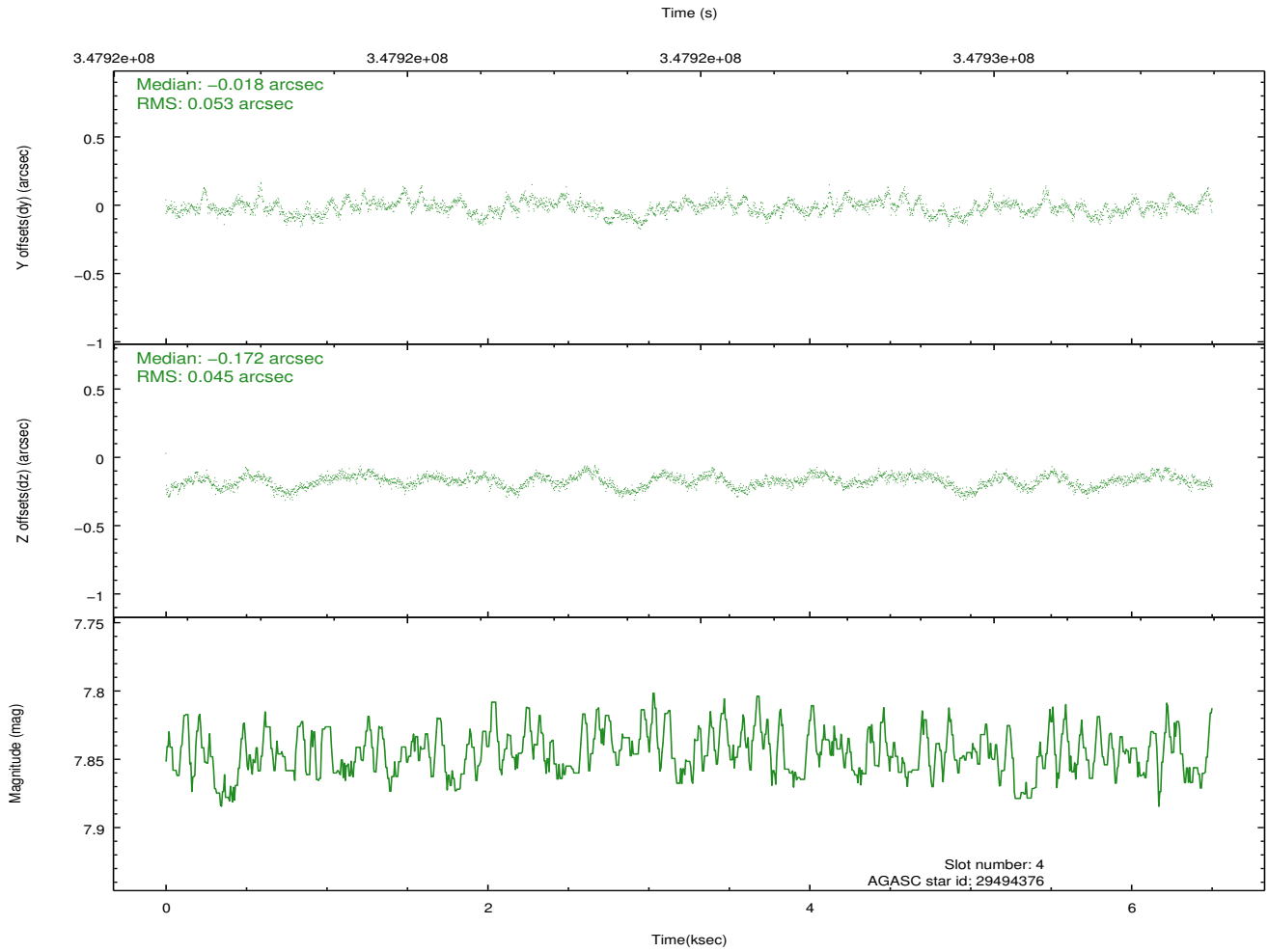
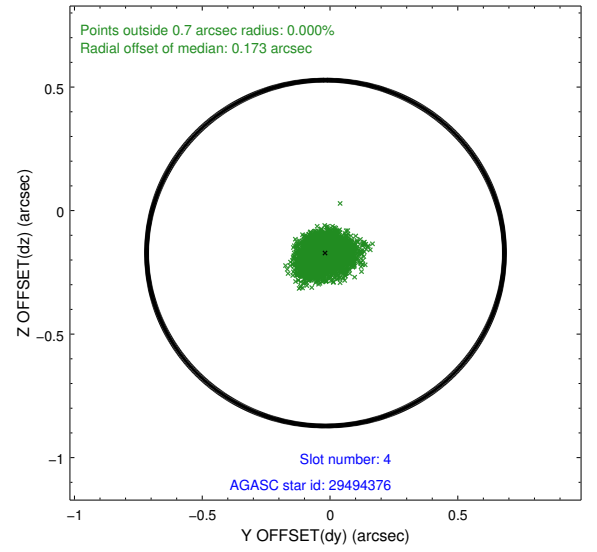
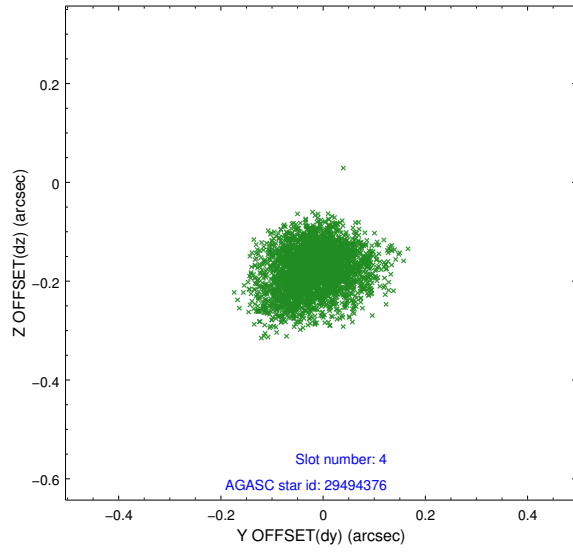
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.00	1586	0.062	-0.026	0.007	0.012	0.000000	0.000000	930.57	-1731.56
1	FID	ACIS-S-5	7.04	1586	-0.103	0.048	0.006	0.011	0.000000	0.000000	-1818.13	165.08
2	FID	ACIS-S-6	7.13	1586	0.020	-0.010	0.009	0.015	0.000000	0.000000	395.06	810.05
3	GUIDE	28970624	8.66	3172	0.189	0.103	0.090	0.139	133.892753	5.432618	-1975.47	-215.14
4	GUIDE	29494376	7.85	3173	-0.018	-0.172	0.074	0.120	134.136656	6.659338	2030.40	1836.46
5	GUIDE	29496632	9.03	3164	0.041	0.051	0.099	0.158	134.831665	5.743905	990.33	-2158.13
6	GUIDE	29498136	7.93	3172	-0.231	-0.070	0.058	0.094	133.907234	6.151382	87.59	1346.54
7	GUIDE	29499296	8.08	3168	0.014	0.091	0.063	0.101	134.400926	5.895890	461.61	-609.24

## 2.4 Star Slots

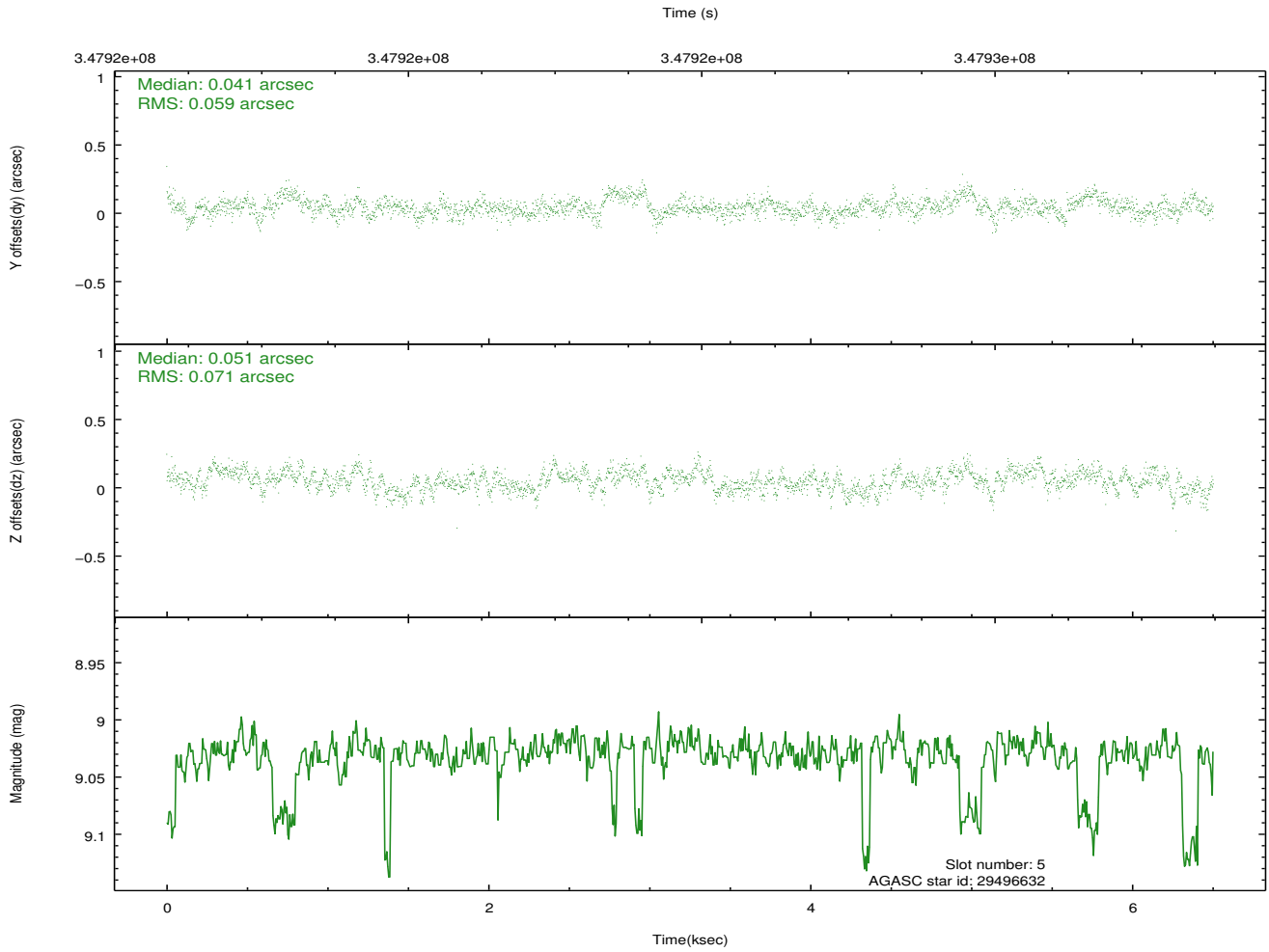
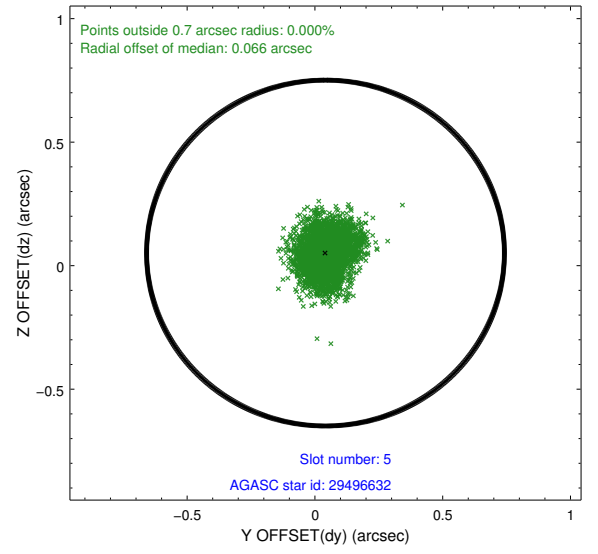
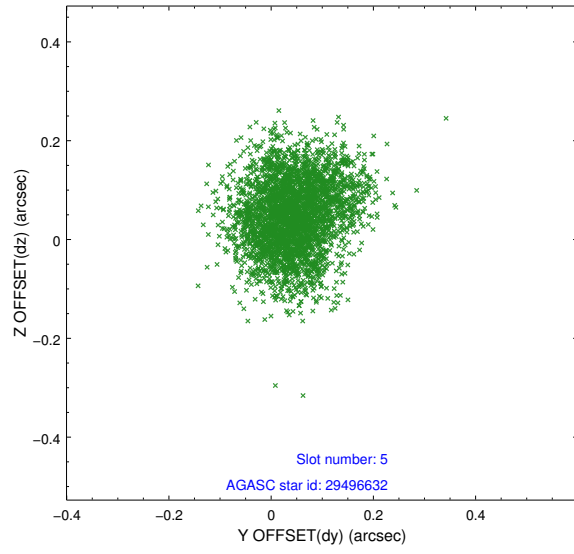
### 2.4.1 Slot 3



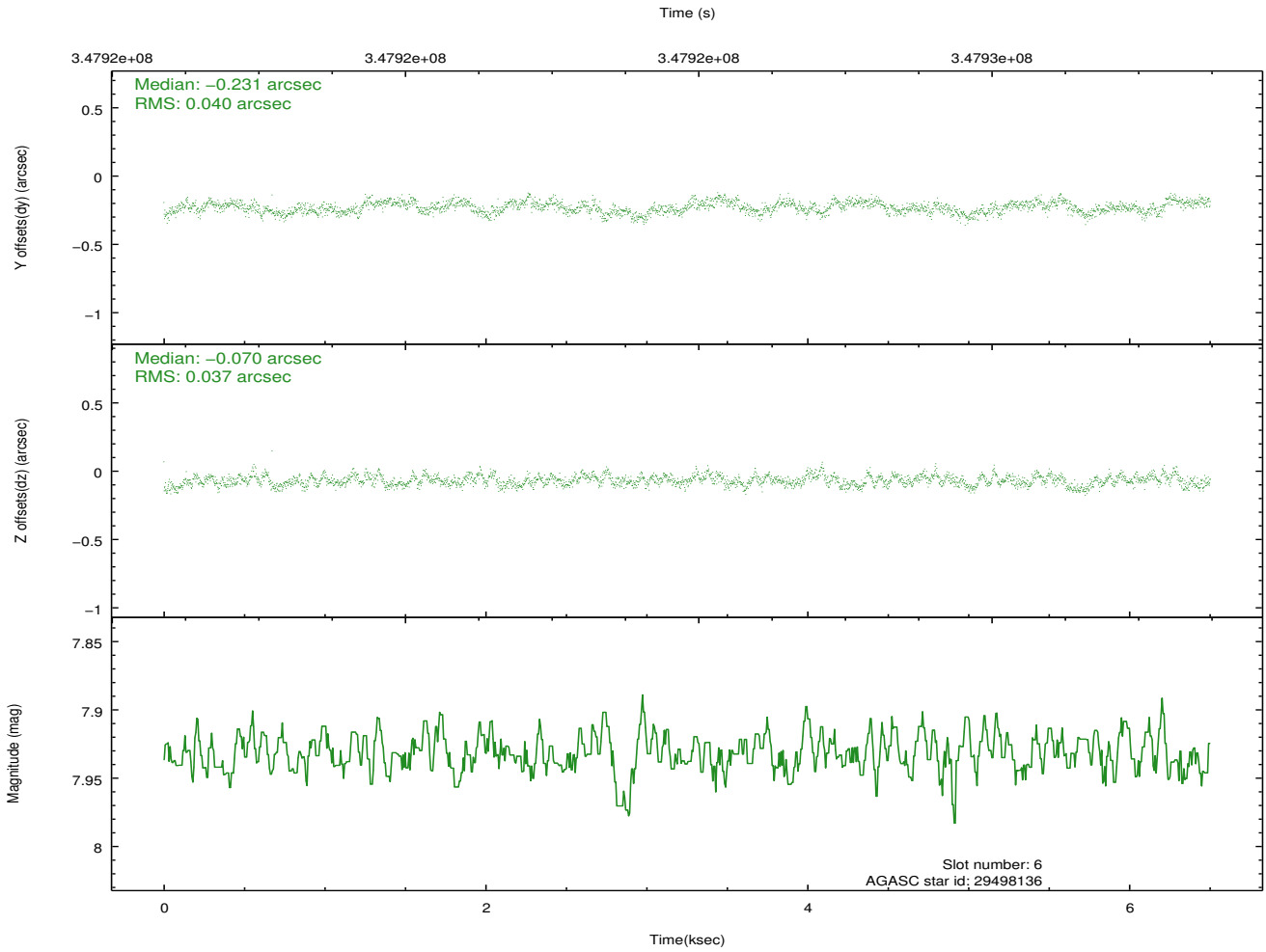
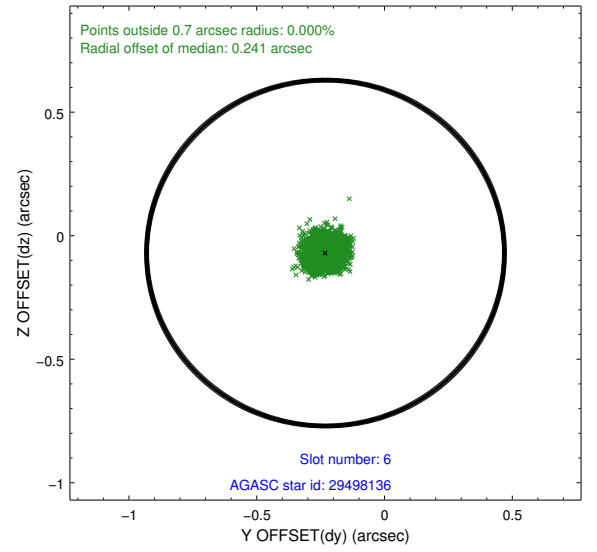
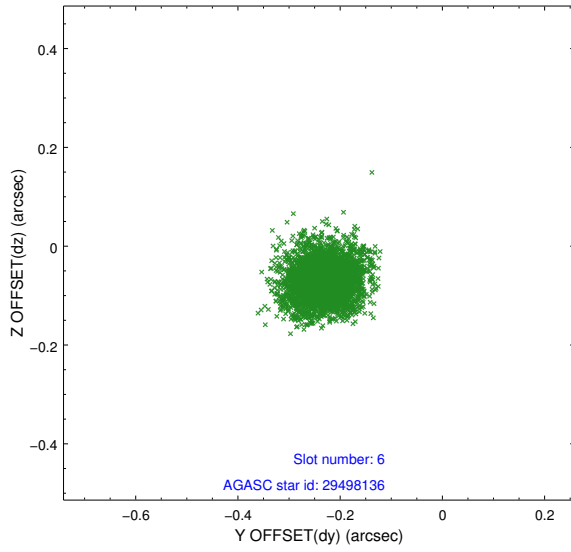
## 2.4.2 Slot 4



### 2.4.3 Slot 5

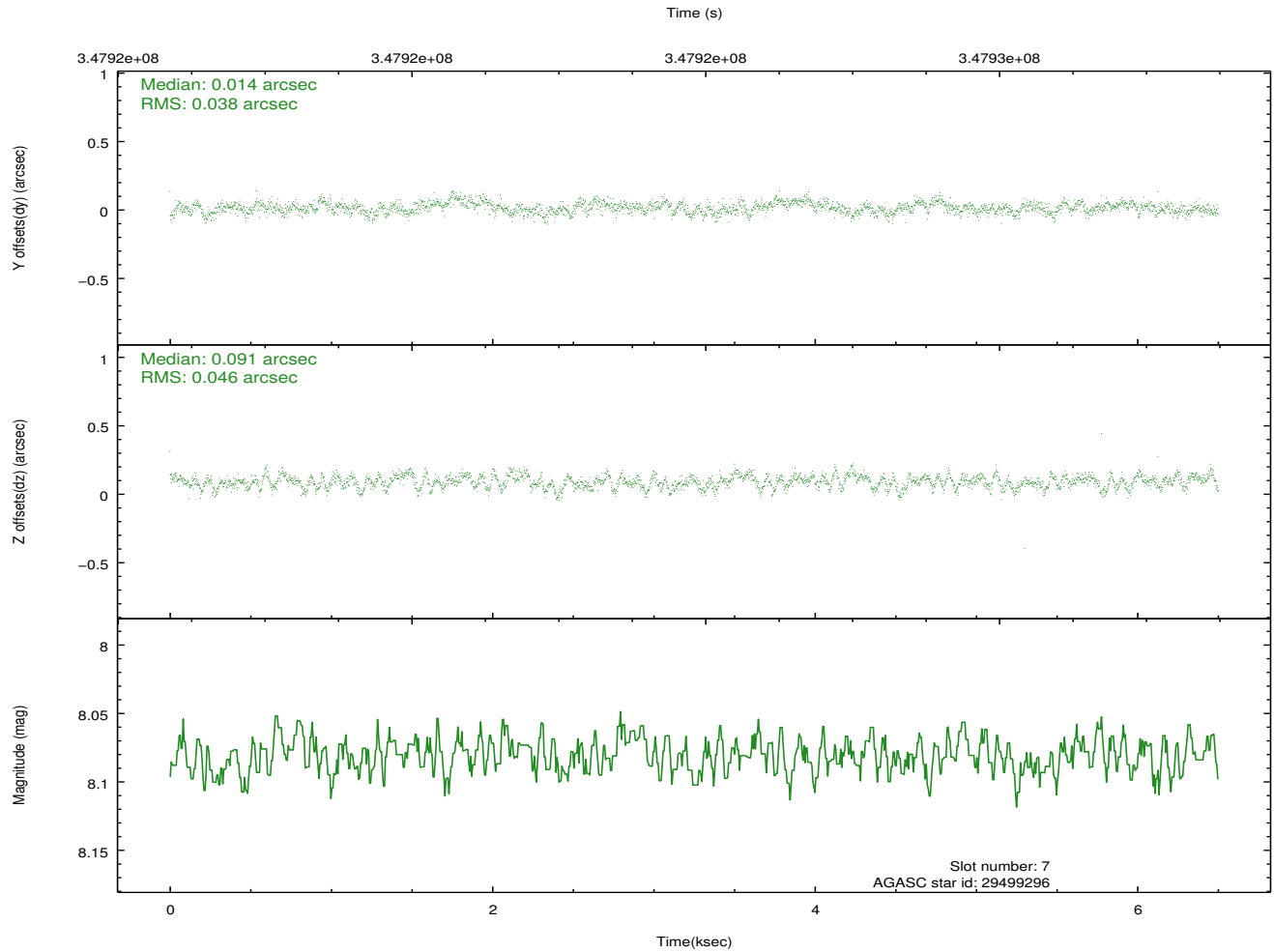
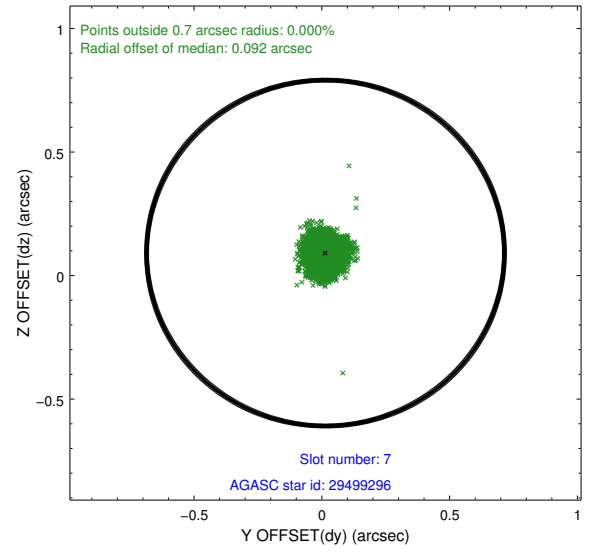
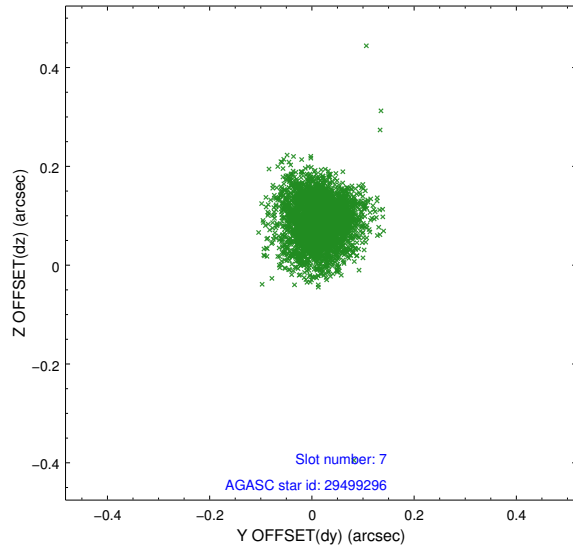


## 2.4.4 Slot 6



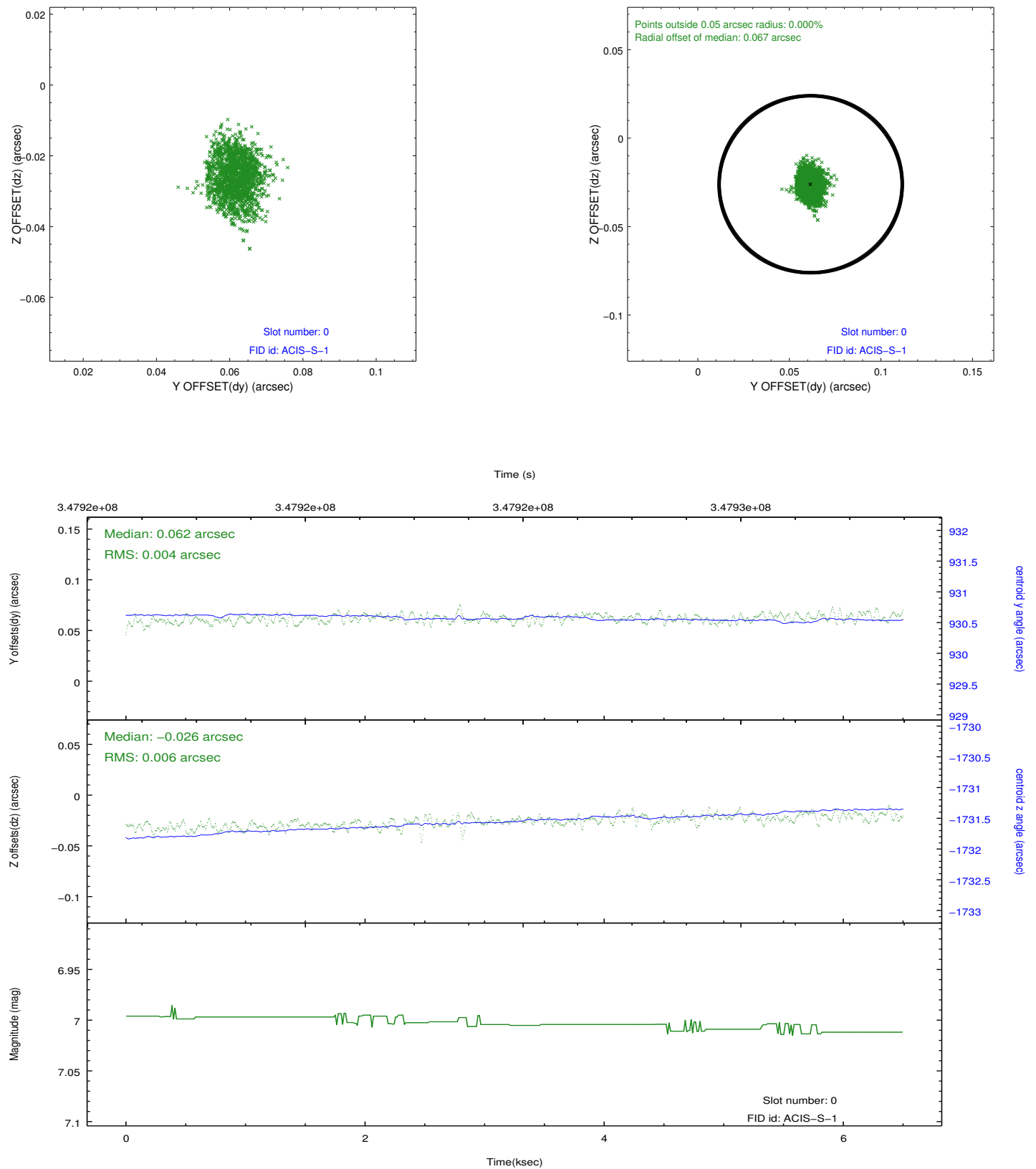


## 2.4.5 Slot 7

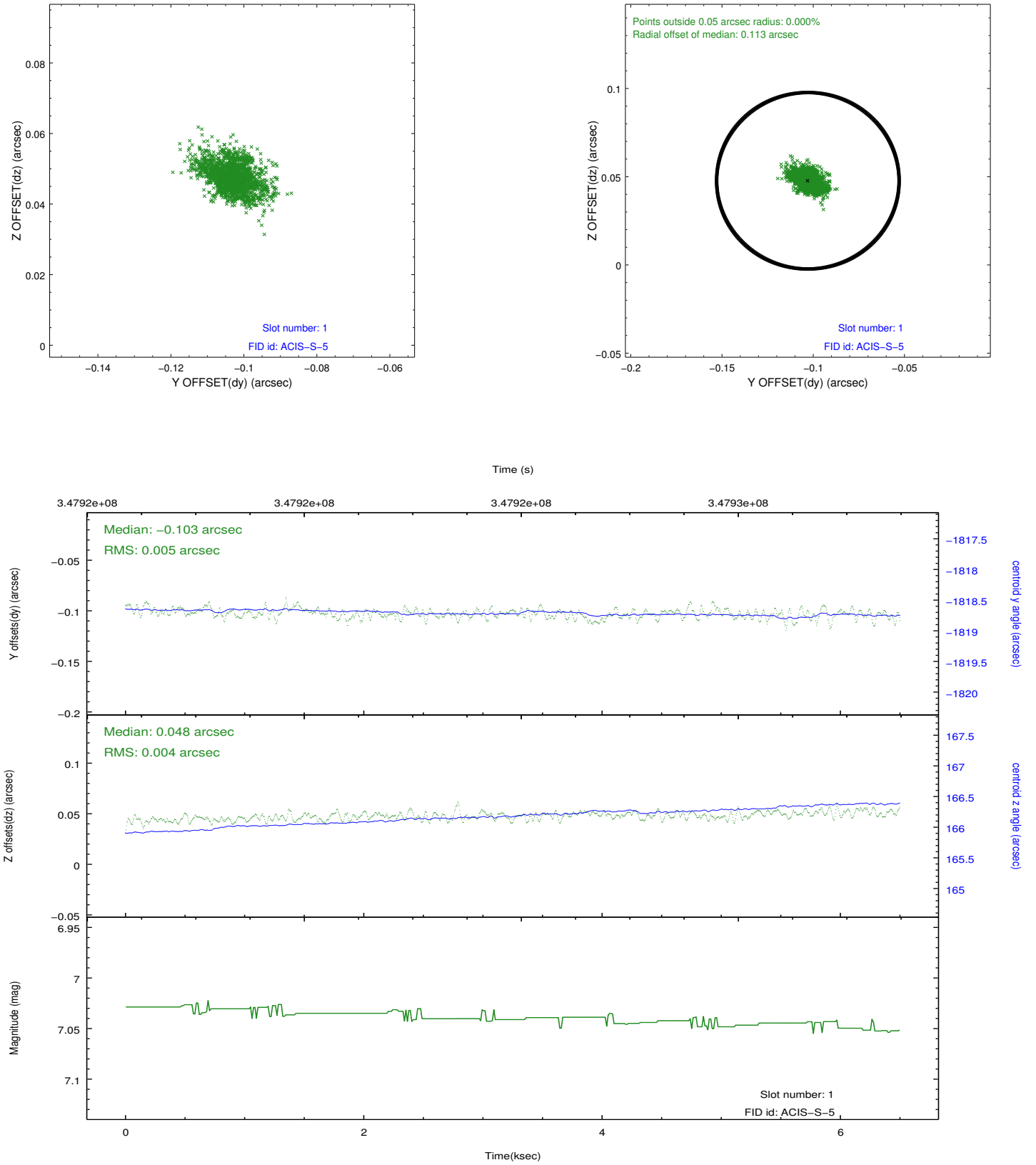


## 2.5 FID Slots

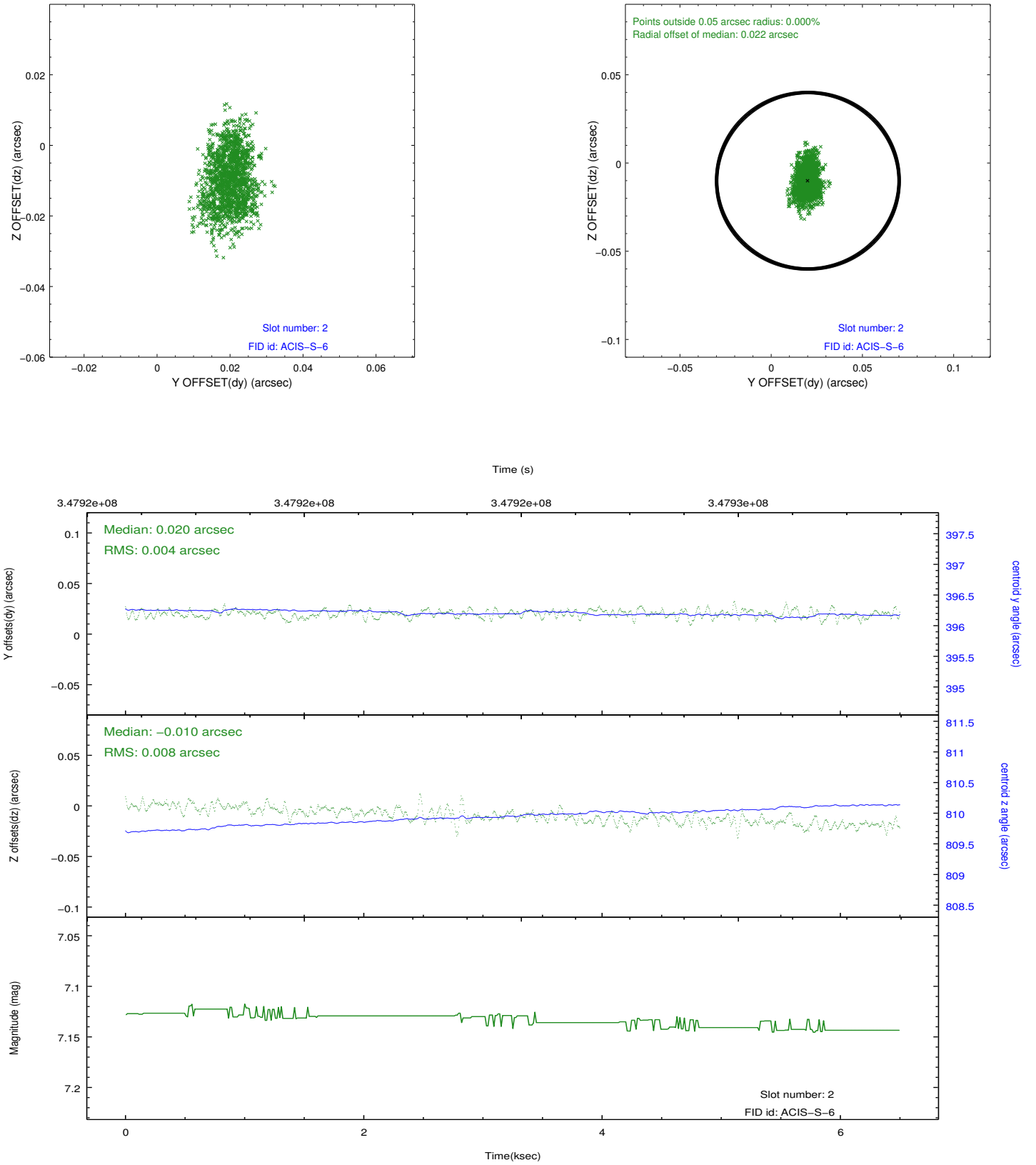
### 2.5.1 Slot 0



## 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)	2012.06.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.53660004

### A.2 Comments