

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9793 - L2 Version 3  
Chandra X-Ray Center

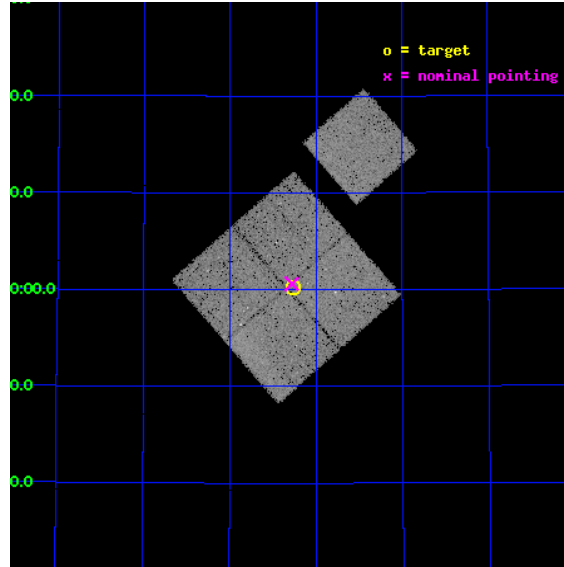
L2 Processing Date : May 7 2012

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# 1 Front

seq_num	900796	Sequence number
obs_id	9793	Observation id
title	The Evolution of Faint AGN at High Redshift	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AEGIS-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.064583	Observer's specified target RA [deg]
dec_targ	53.002694	Observer's specified target Dec [deg]
ra_nom	215.07005439255	Nominal RA [deg]
dec_nom	53.010074795699	Nominal Dec [deg]
roll_nom	48.704332726675	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24142.759225428	Sum of GTIs [s]
livetime	23827.316302507	Livetime [s]
ontime0	24142.759215415	Sum of GTIs [s]
ontime1	24142.759344876	Sum of GTIs [s]
ontime2	24142.759215415	Sum of GTIs [s]
ontime3	24142.759225428	Sum of GTIs [s]
ontime6	24136.477254808	Sum of GTIs [s]
l2events	81335	Number of level 2 events

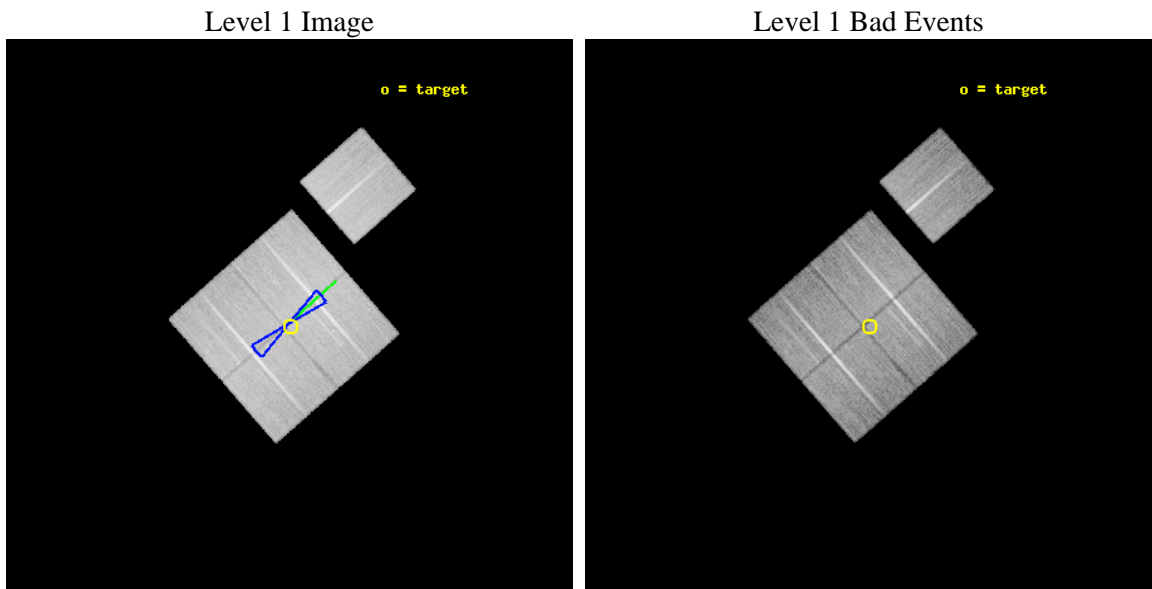




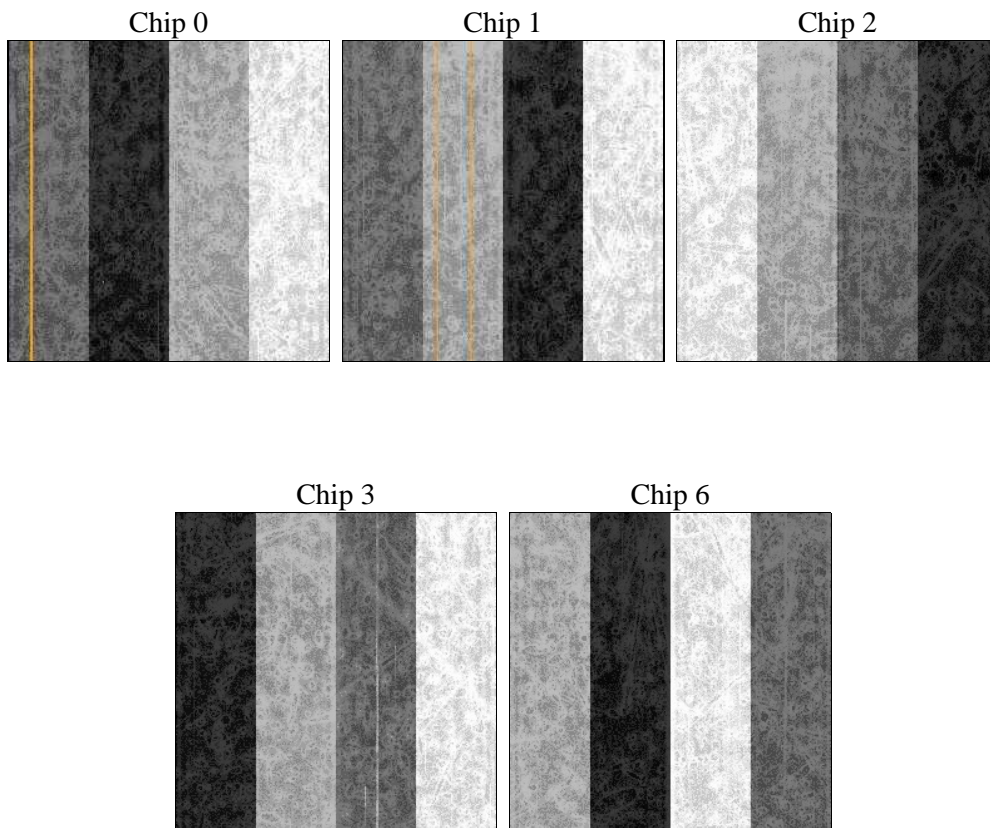
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	24142.759225428	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	24142.759215415	Sum of GTIs [s]
date	2012-05-07T04:17:50	Date and time of file creation	ontime1	24142.759344876	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	24142.759215415	Sum of GTIs [s]
			ontime3	24142.759225428	Sum of GTIs [s]
			ontime6	24136.477254808	Sum of GTIs [s]
			l1events	964321	Number of level 1 events

### 2.1.4 Events

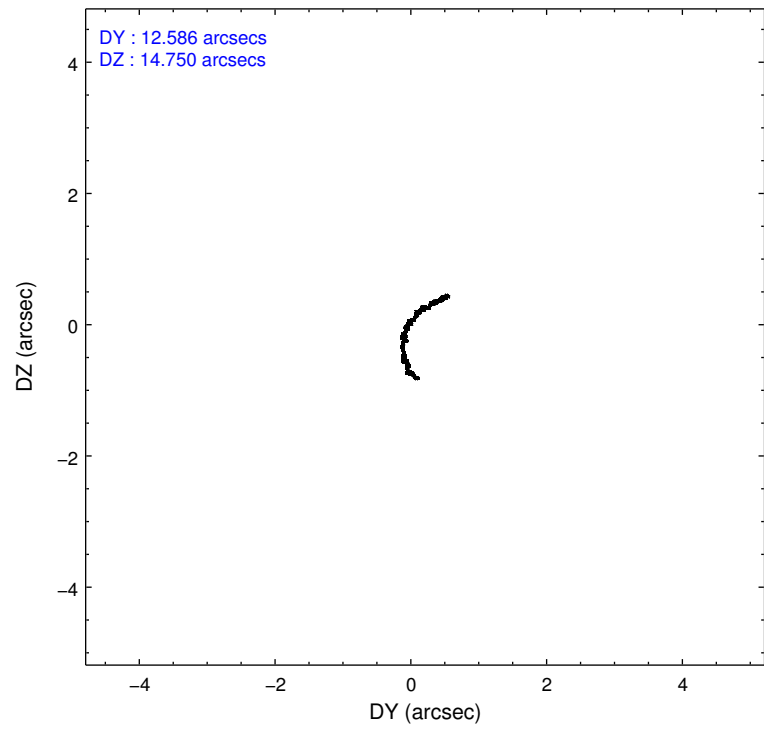
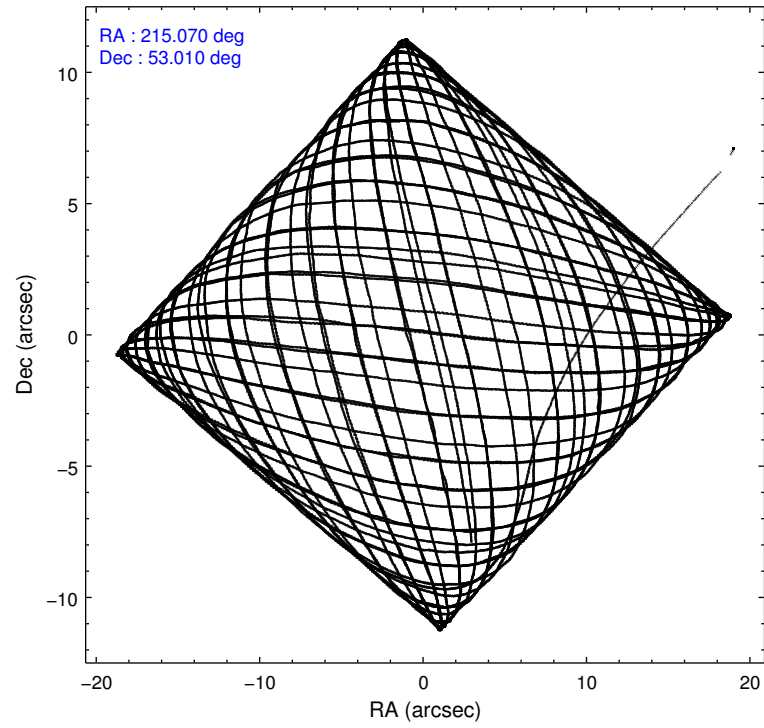
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	184269	184619	203602	195962	195869
rejected events	164639	163256	184766	177338	176148
rejected %	89%	88%	90%	90%	89%

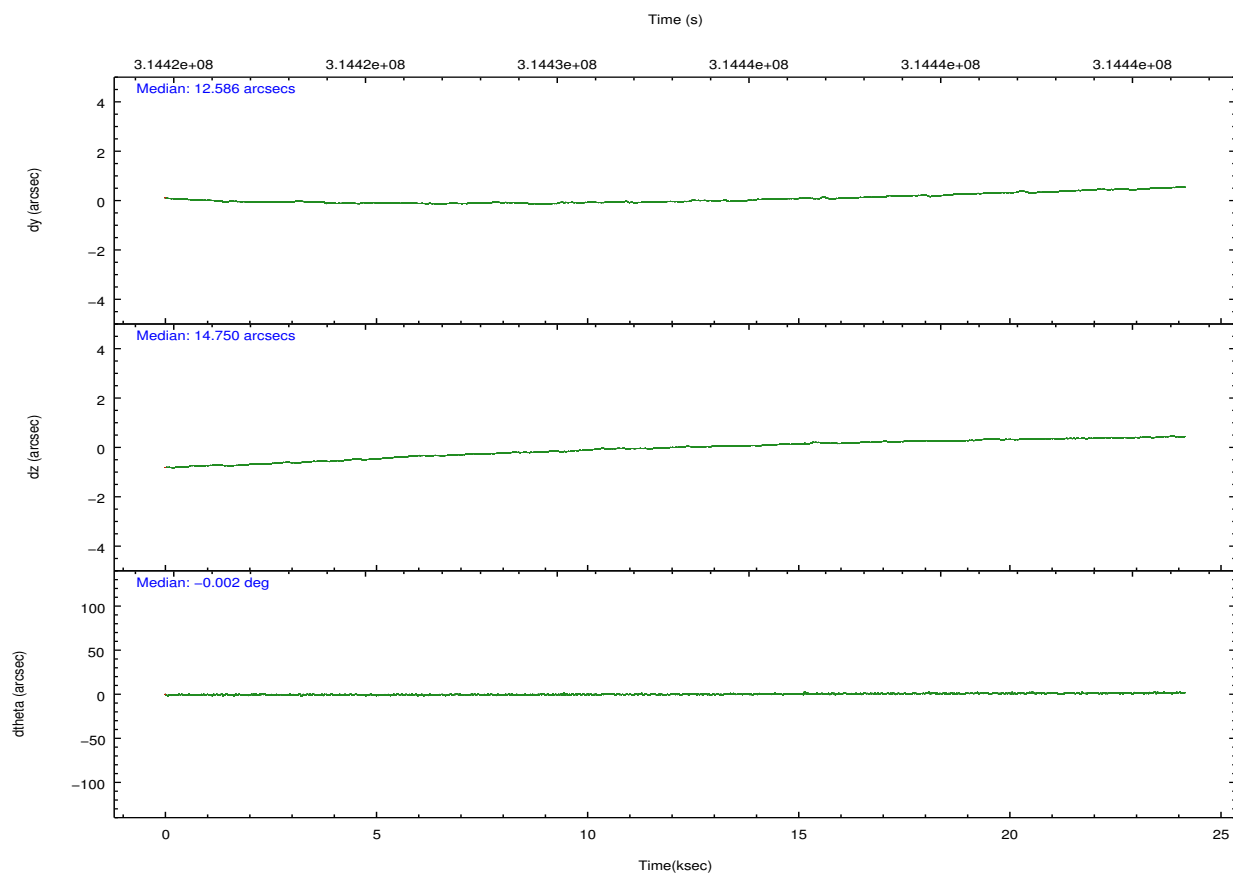
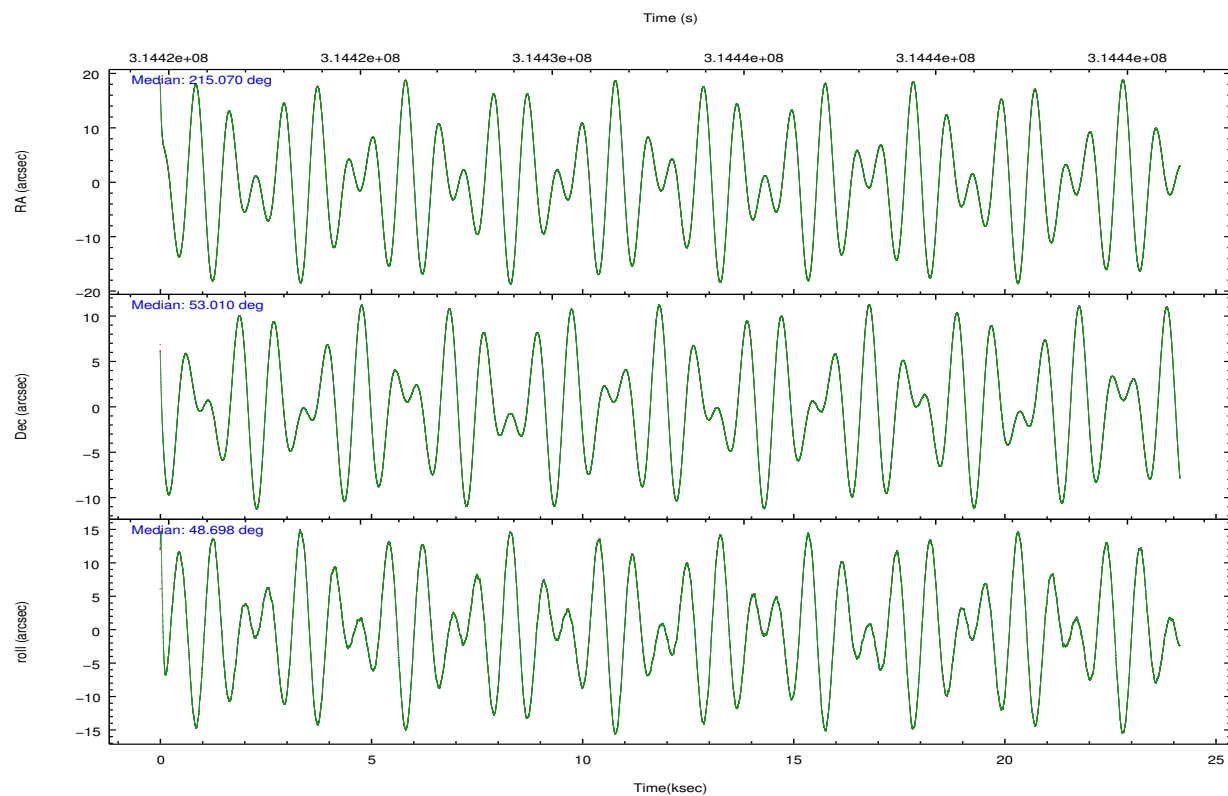
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6972	7753	6945	6821	6841
	3%	4%	3%	3%	3%
grade 1 events	86	95	114	105	98
	0%	0%	0%	0%	0%
grade 2 events	4765	4927	4437	4189	4420
	2%	2%	2%	2%	2%
grade 3 events	2232	2453	2045	2019	2194
	1%	1%	1%	1%	1%
grade 4 events	2042	2237	2054	2028	2158
	1%	1%	1%	1%	1%
grade 5 events	6821	7536	6405	7862	7717
	3%	4%	3%	4%	3%
grade 6 events	3794	4261	3566	3756	4312
	2%	2%	1%	1%	2%
grade 7 events	157557	155357	178036	169182	168129
	85%	84%	87%	86%	85%

## 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	215.061283	215.0700543925464	CCD I2 on	Y	Y
[deg] Pointing Dec	52.983099	53.01007479569891	CCD I3 on	Y	Y
[deg] Pointing Roll	48.502636	48.70433272667475	CCD S0 on	N	N
[deg] Roll angle	50.000000	50.000000	CCD S1 on	N	N
[deg] Roll tolerance	10.000000	10.000000	CCD S2 on	O1	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S4 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S5 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	-0.005018542100998502	On-chip summing requested	N	N
[s] Observation start time (MET)	314421138.184000	314420031.87405	Subarray requested	NONE	NONE
Observation start date	2007-12-19T03:11:13	2007-12-19T02:53:51	Alternating exposures requested	N	N
[s] Observation end time (MET)	314445138.184000	314446038.1753	[s] Primary exposure time	0.000000	3.1
Observation end date	2007-12-19T09:51:13	2007-12-19T10:07:18			
Read mode	TIMED	TIMED			

## 2.3 Aspect



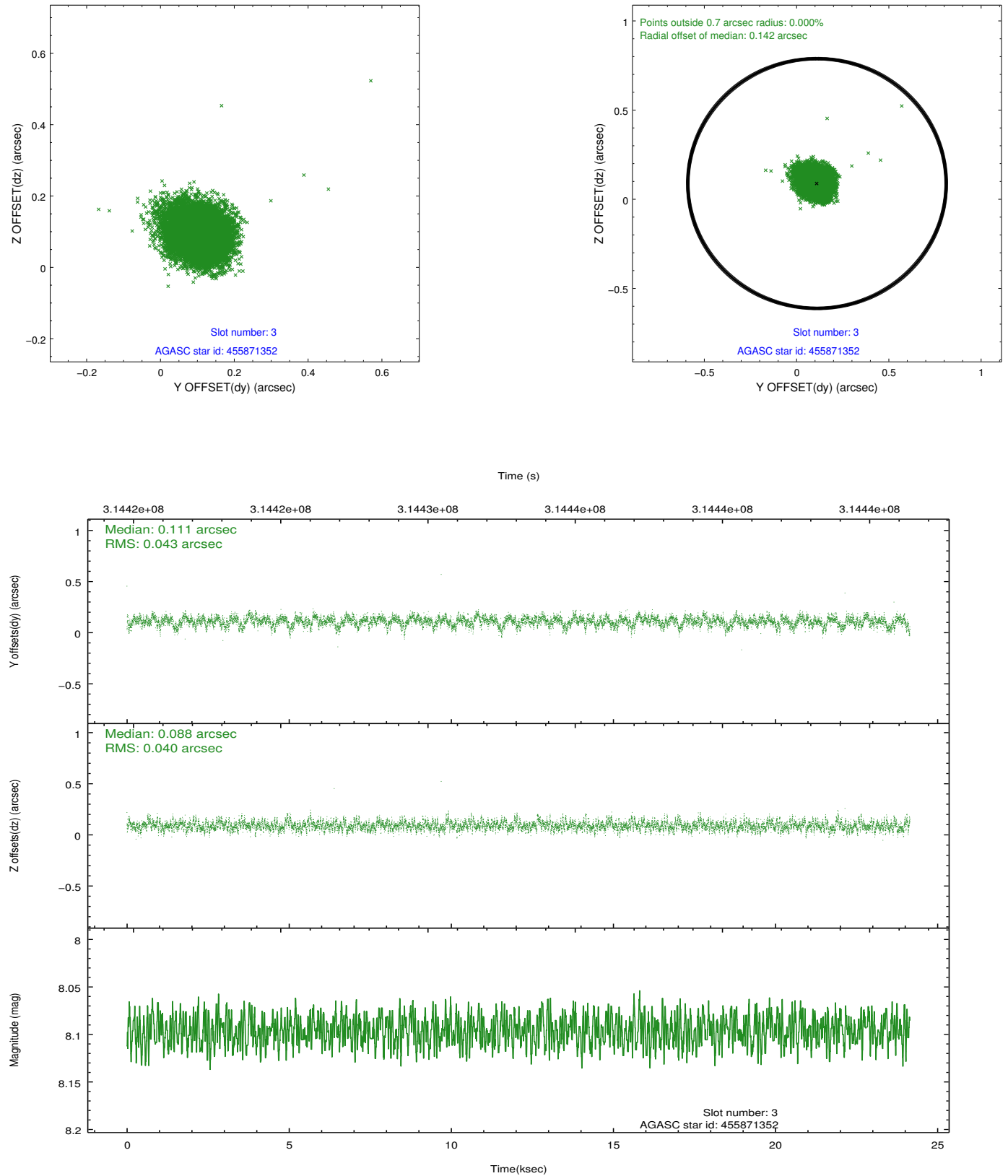


### Slot Statistics

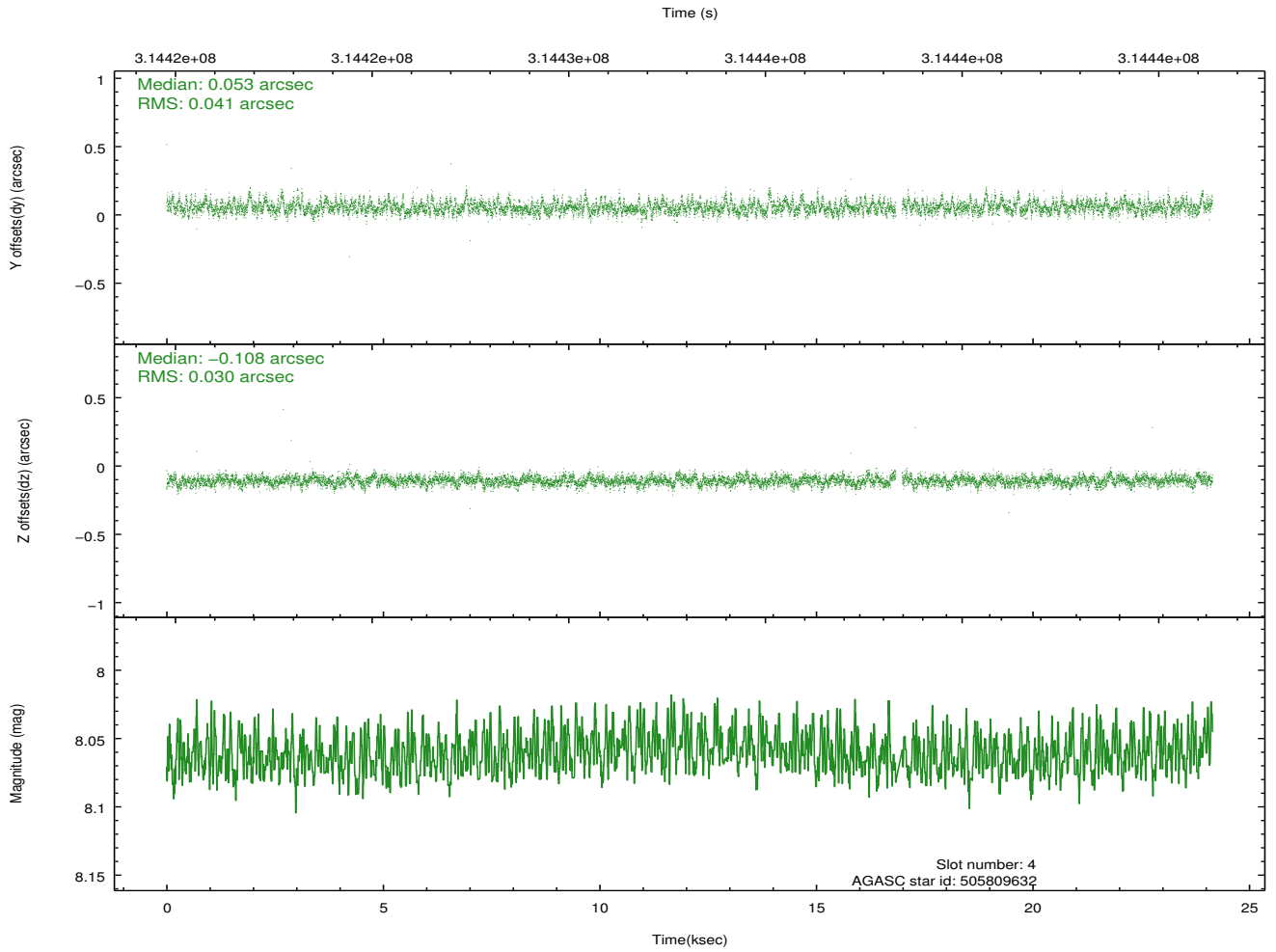
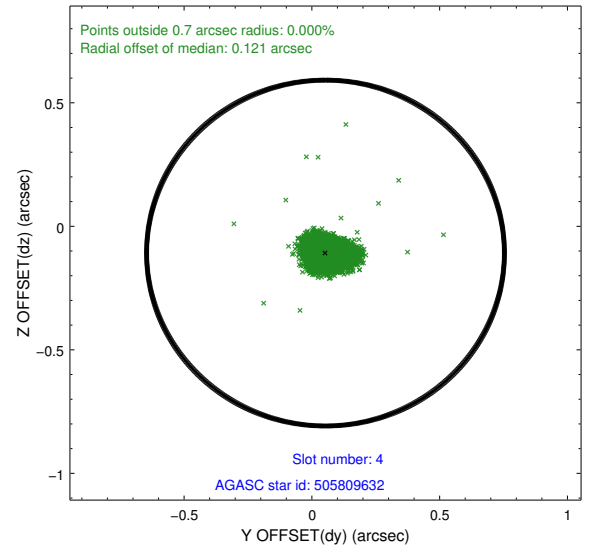
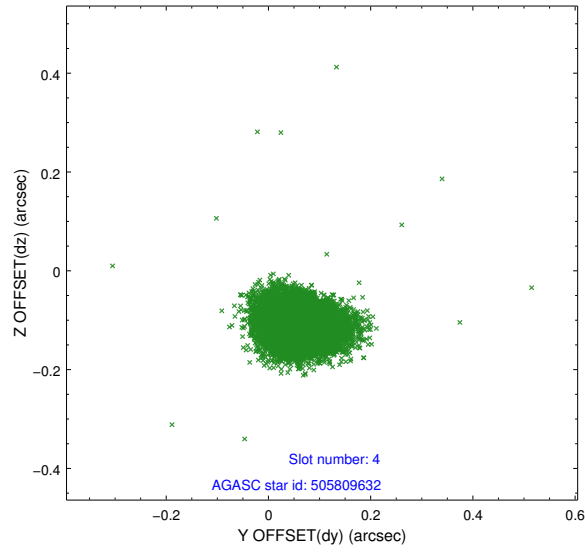
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	5891	0.026	-0.006	0.020	0.030	0.000000	0.000000	926.89	-838.27
1	FID	ACIS-I-5	7.22	5891	-0.199	0.034	0.008	0.015	0.000000	0.000000	-1821.38	1059.18
2	FID	ACIS-I-6	7.23	5890	0.081	0.044	0.017	0.028	0.000000	0.000000	392.33	1703.85
3	GUIDE	455871352	8.10	11778	0.111	0.088	0.061	0.104	215.099961	52.172669	-2128.12	-1997.06
4	GUIDE	505809632	8.06	11703	0.053	-0.108	0.052	0.088	215.499426	53.521185	2074.45	583.22
5	GUIDE	505812088	8.15	11781	0.033	-0.152	0.065	0.105	214.186617	53.263562	-482.85	2087.28
6	GUIDE	505812376	7.58	11778	-0.105	0.032	0.048	0.079	214.039537	52.937930	-1578.87	1563.32
7	GUIDE	505815928	8.35	11775	-0.092	0.139	0.063	0.104	216.234742	53.074559	1943.91	-1668.25

## 2.4 Star Slots

### 2.4.1 Slot 3

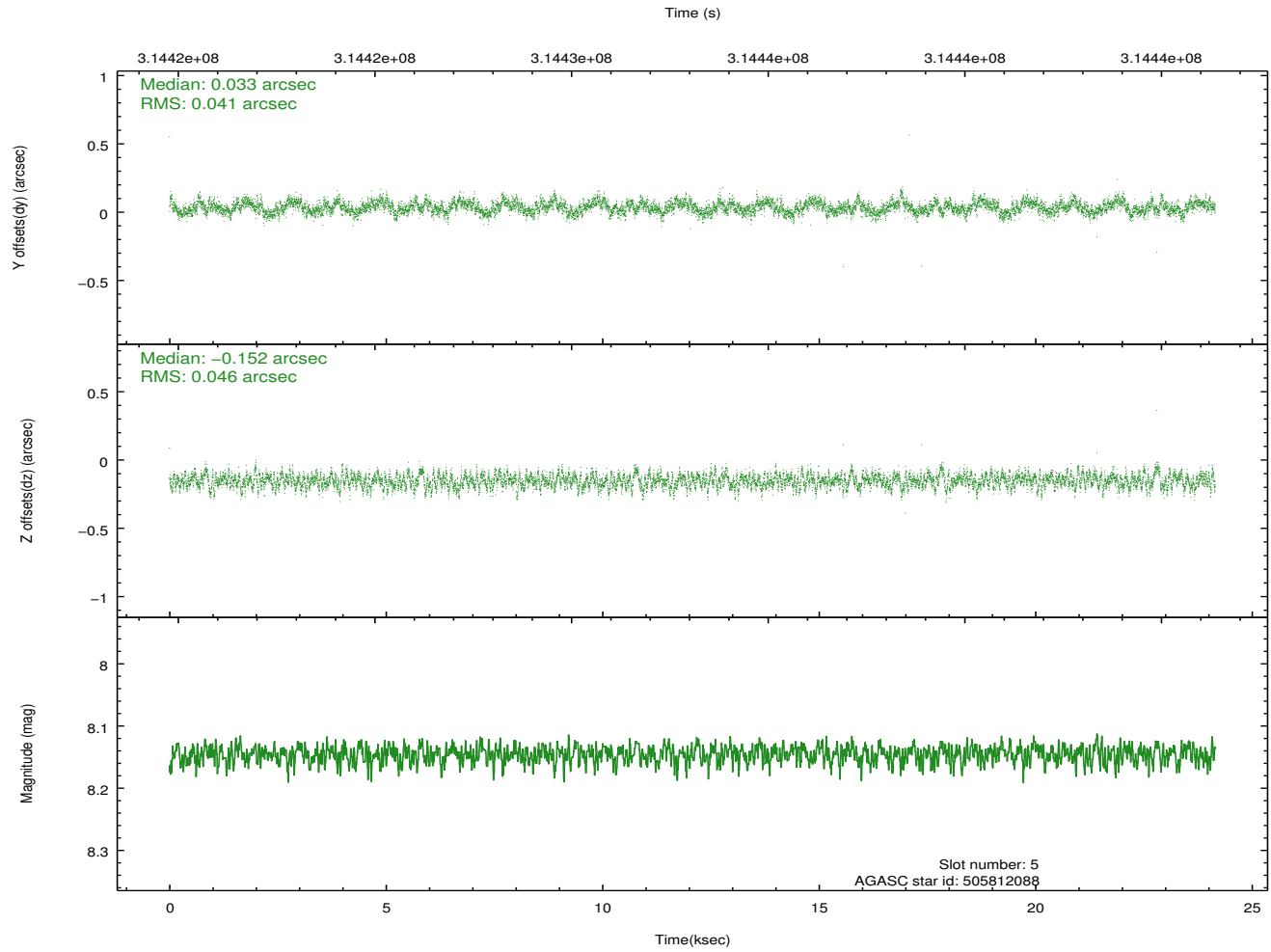
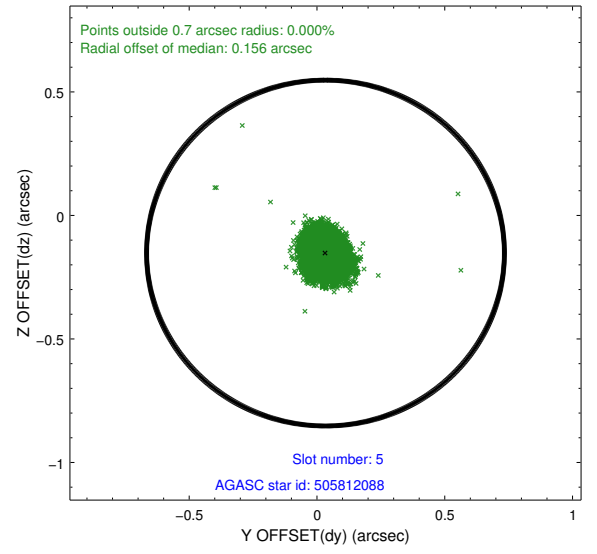
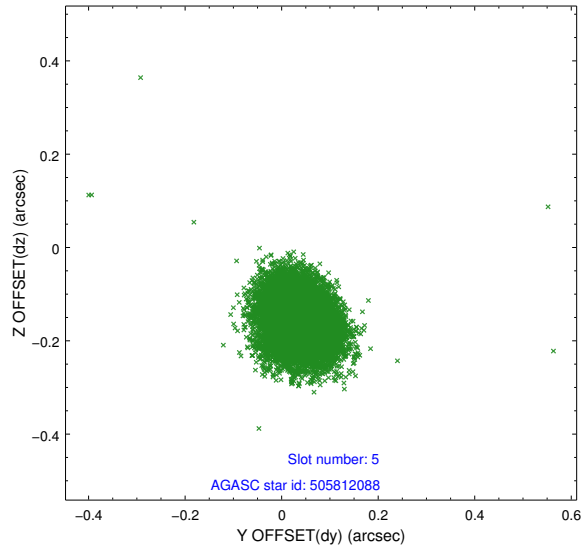


## 2.4.2 Slot 4

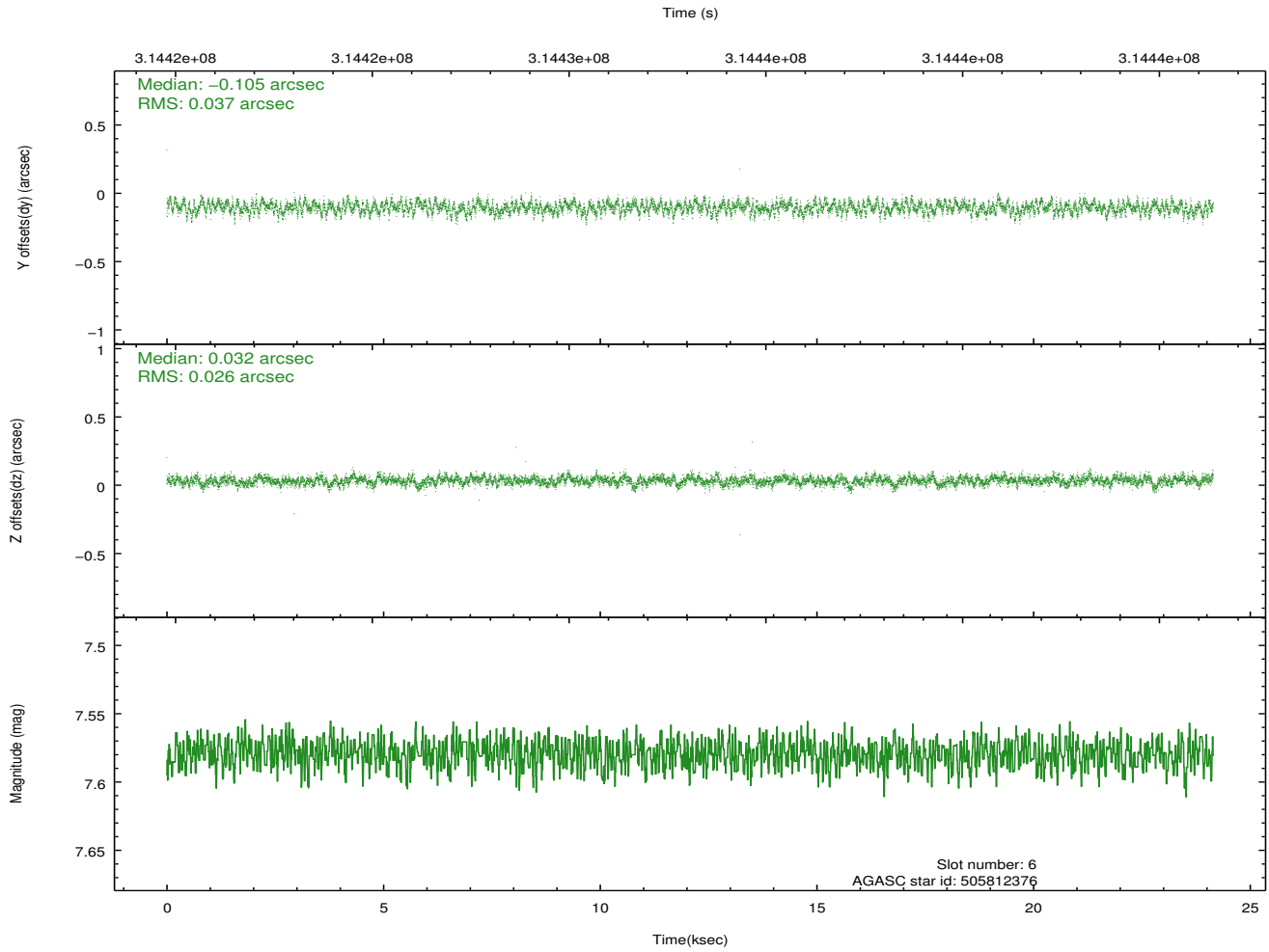
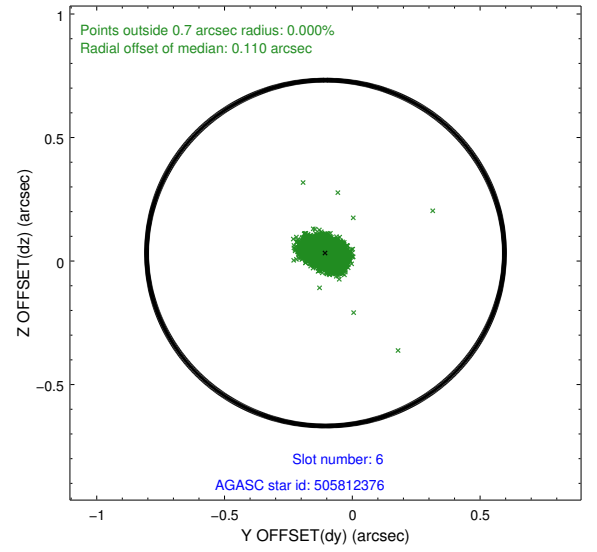
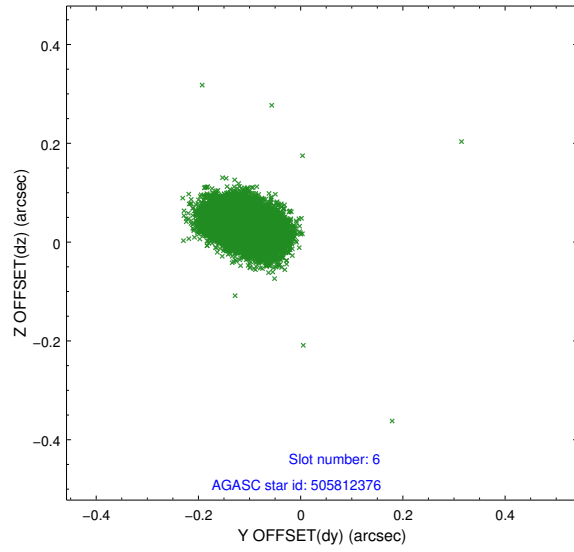




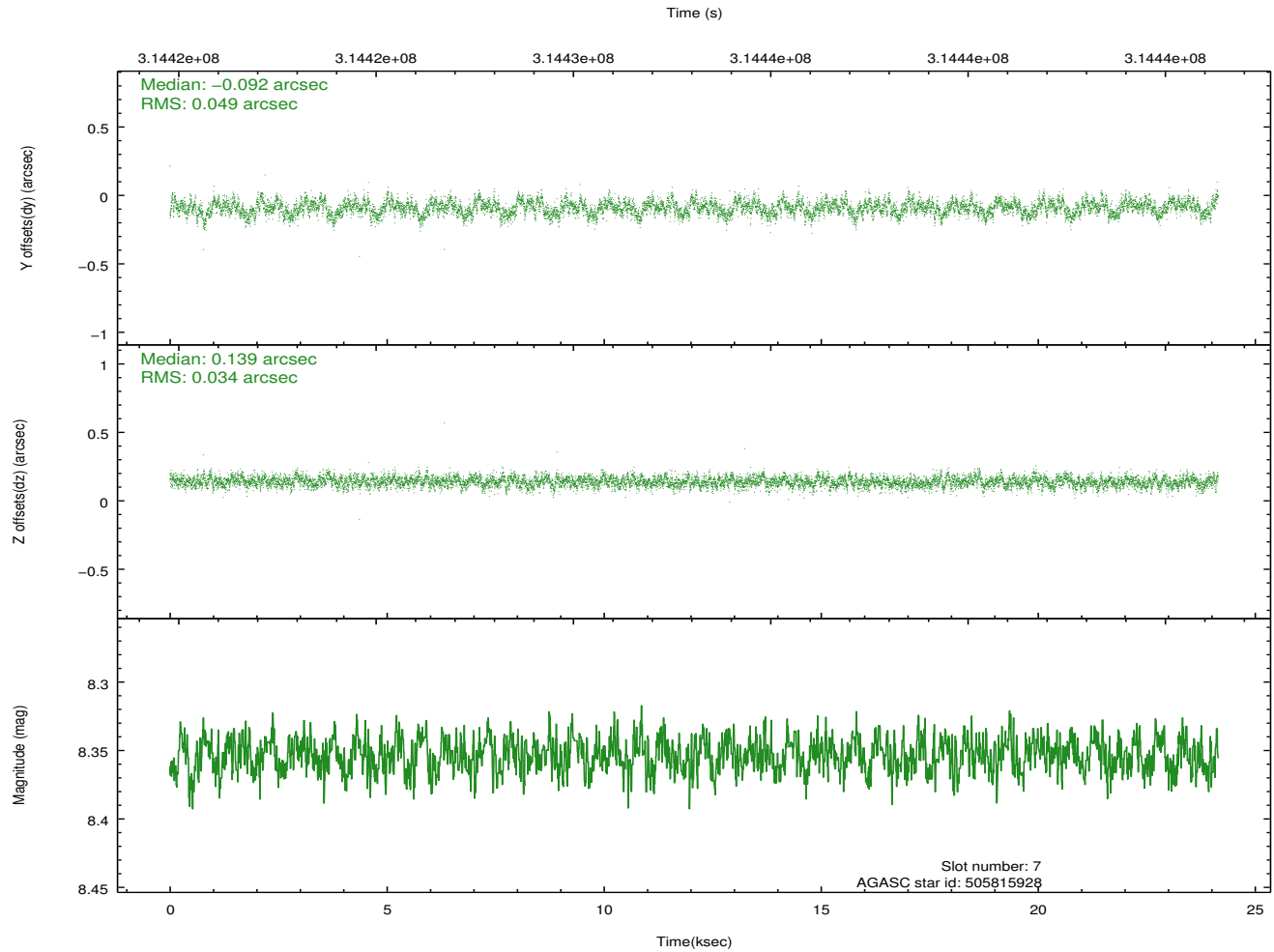
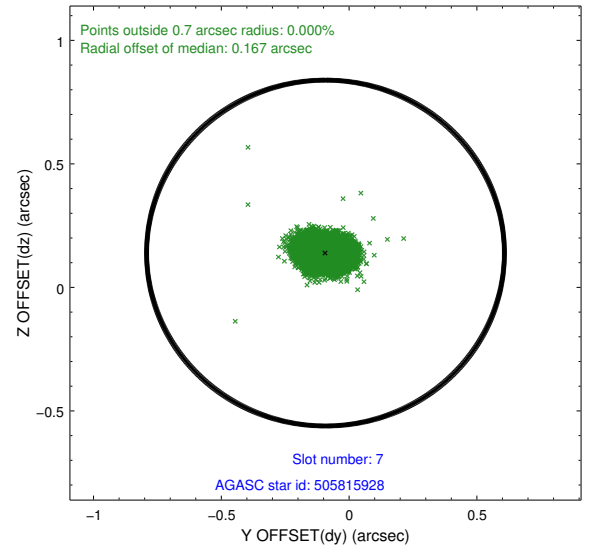
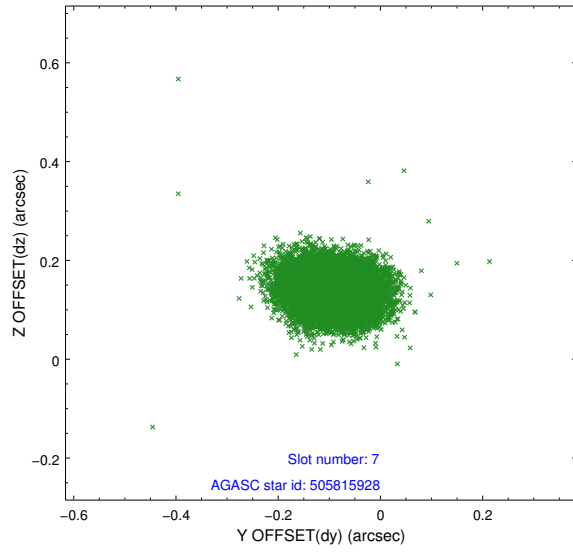
### 2.4.3 Slot 5



## 2.4.4 Slot 6

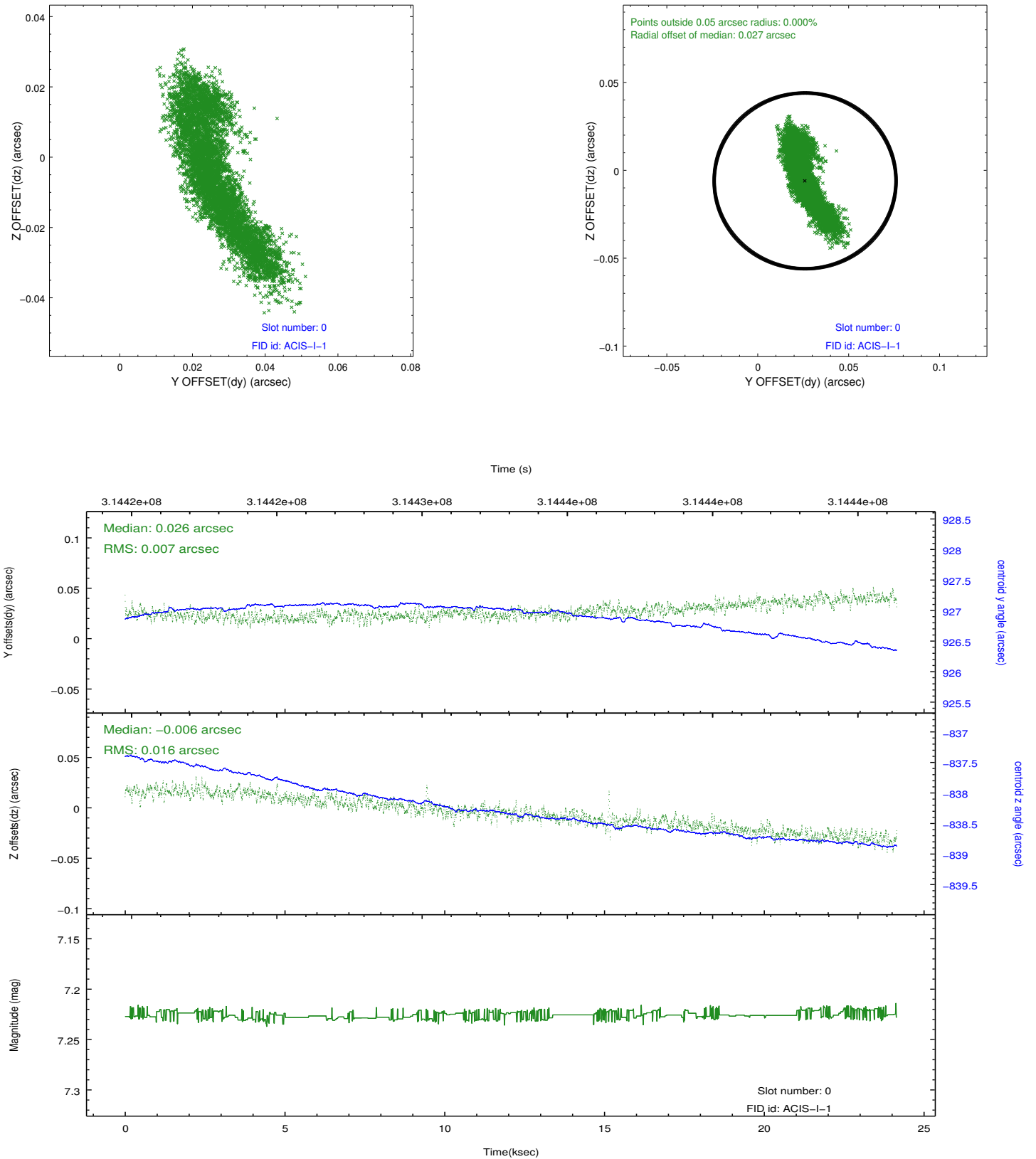


## 2.4.5 Slot 7

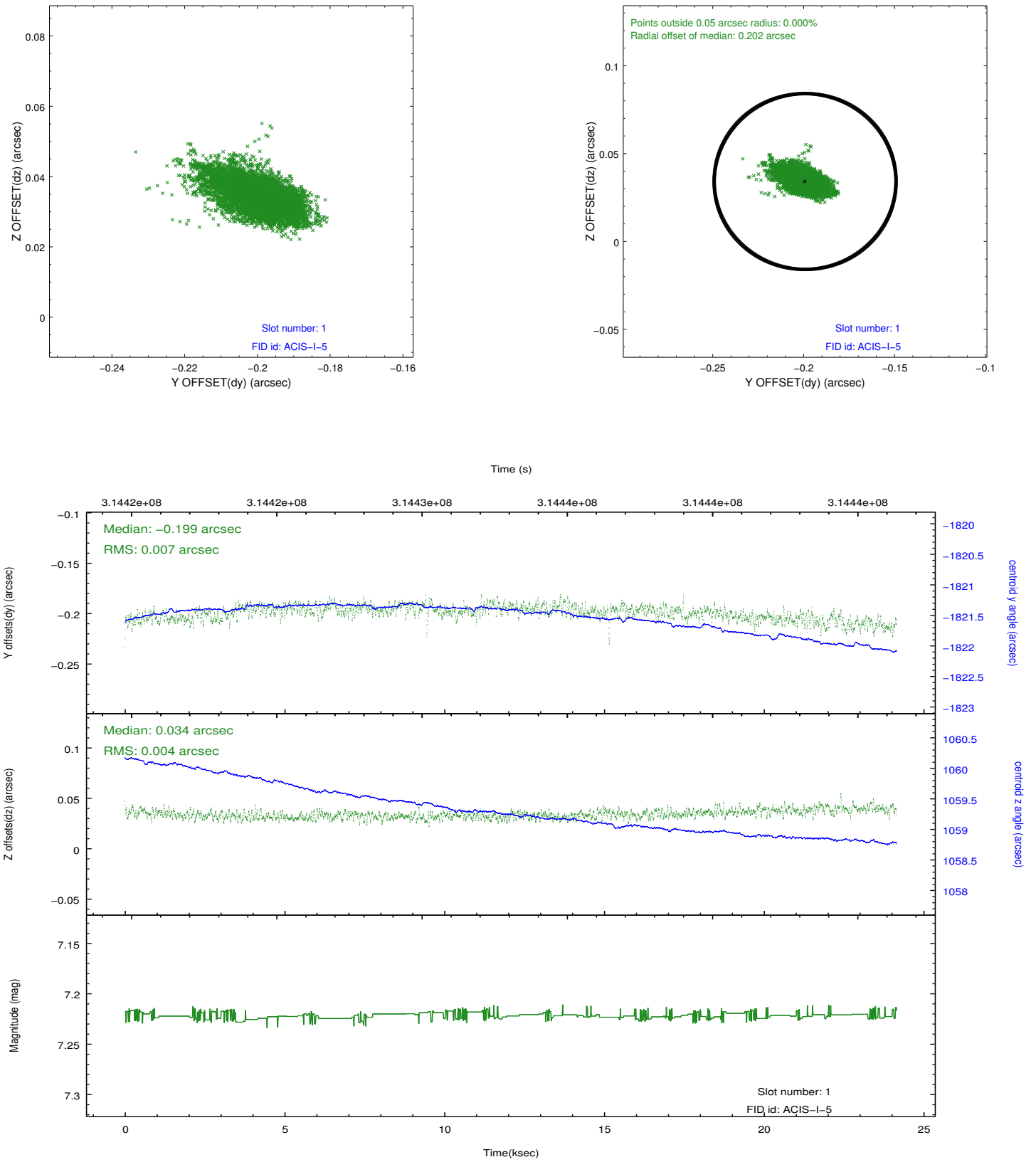


## 2.5 FID Slots

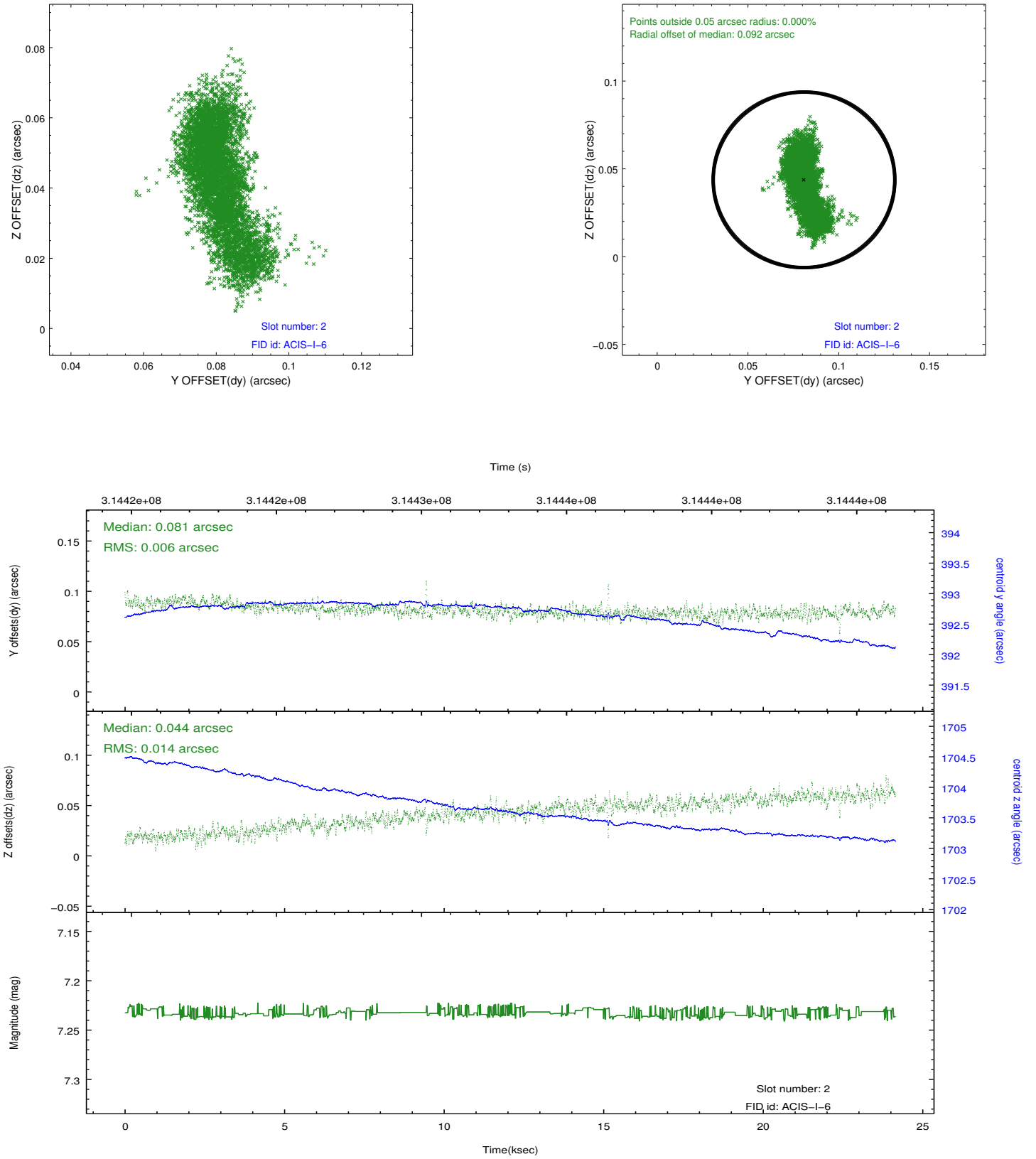
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.1427592

### A.2 Comments

Roll constraint met.