

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7618 - L2 Version 2  
Chandra X-Ray Center

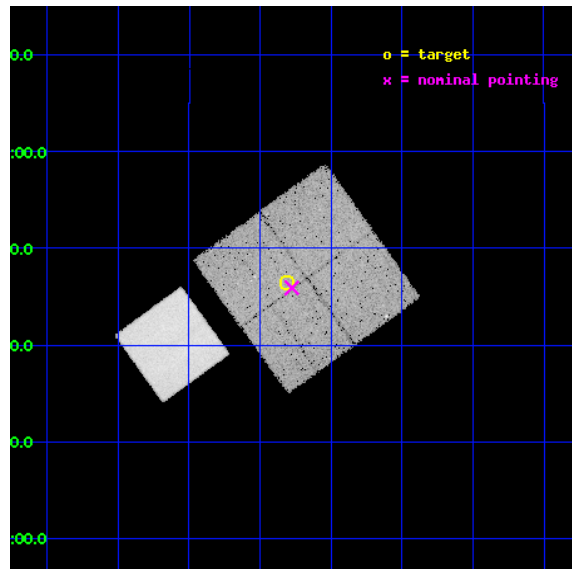
L2 Processing Date : Apr 29 2012

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# 1 Front

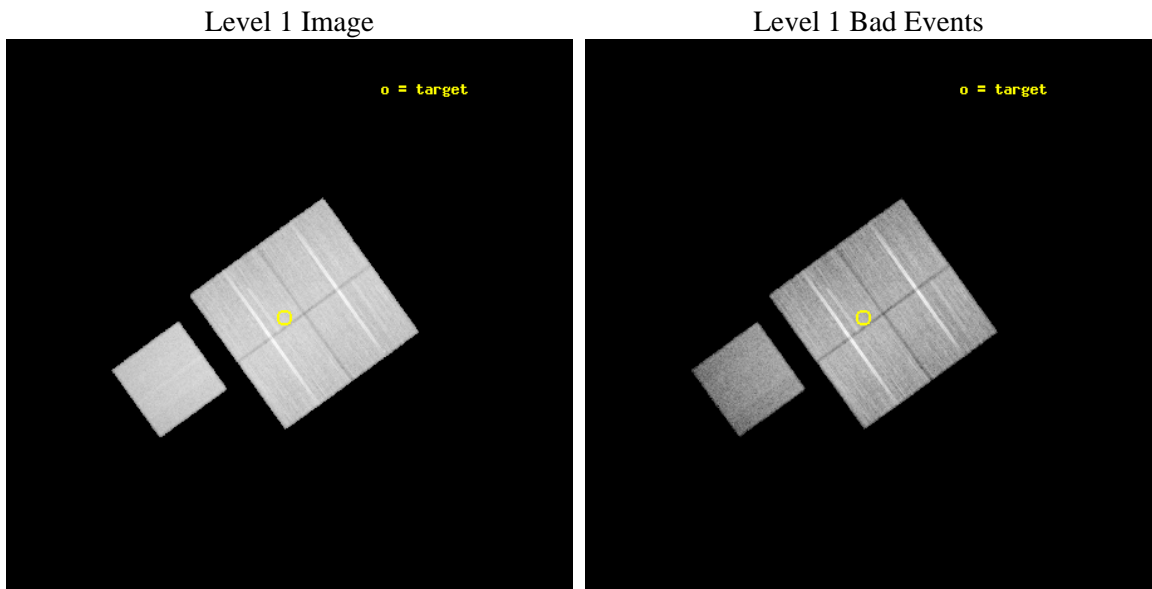
seq_num	500748	Sequence number
obs_id	7618	Observation id
title	X-rays from the unusual relativistic binary J1906+0746	Proposal ti
observer	Dr Oleg Kargaltsev	Principal investigator
object	PSRJ1906+0746	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	286.702917	Observer's specified target RA [deg]
dec_targ	7.774611	Observer's specified target Dec [deg]
ra_nom	286.69394254213	Nominal RA [deg]
dec_nom	7.7653399296176	Nominal Dec [deg]
roll_nom	234.15329220613	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32022.87730509	Sum of GTIs [s]
liveltime	31604.4748382	Livetime [s]
ontime0	32032.300246358	Sum of GTIs [s]
ontime1	32029.159256041	Sum of GTIs [s]
ontime2	32029.159256041	Sum of GTIs [s]
ontime3	32022.87730509	Sum of GTIs [s]
ontime7	32032.300246358	Sum of GTIs [s]
l2events	184151	Number of level 2 events



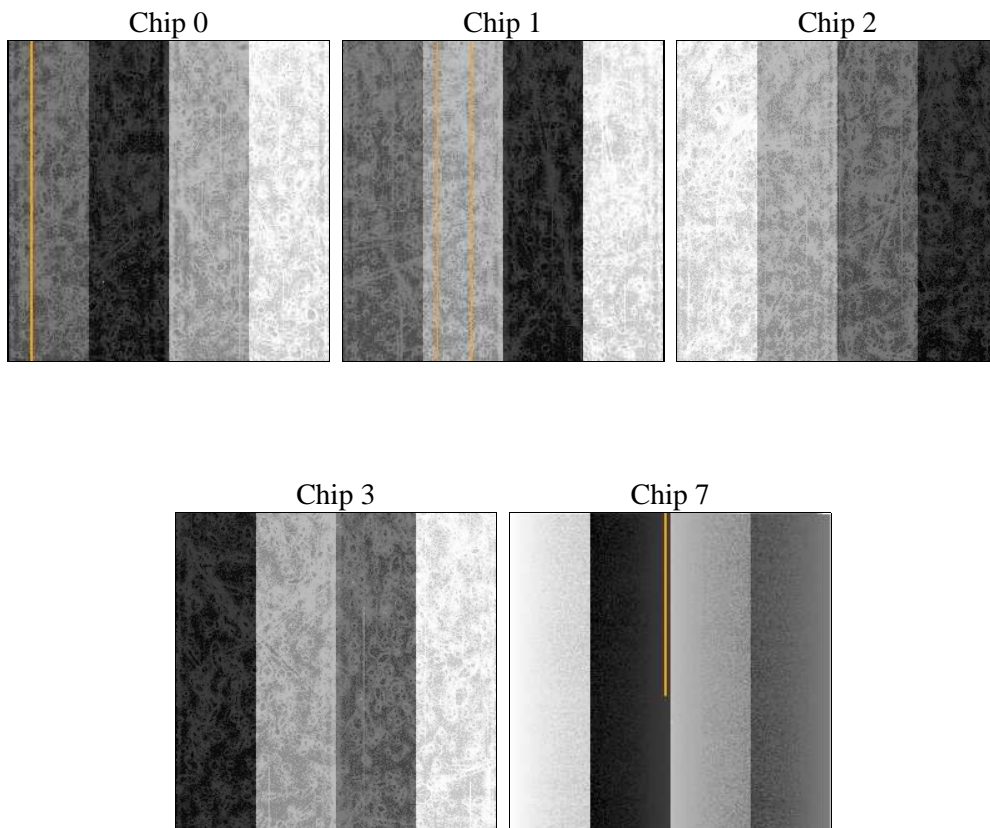
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	32022.87730509	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	32032.300246358	Sum of GTIs [s]
date	2012-04-29T03:49:42	Date and time of file creation	ontime1	32029.159256041	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	32029.159256041	Sum of GTIs [s]
			ontime3	32022.87730509	Sum of GTIs [s]
			ontime7	32032.300246358	Sum of GTIs [s]
			l1events	1195622	Number of level 1 events

### 2.1.4 Events

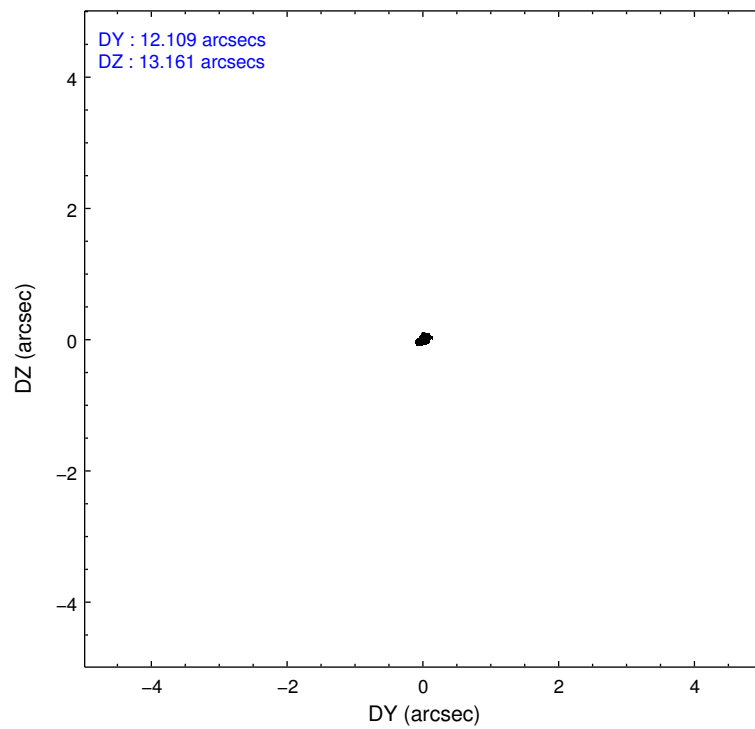
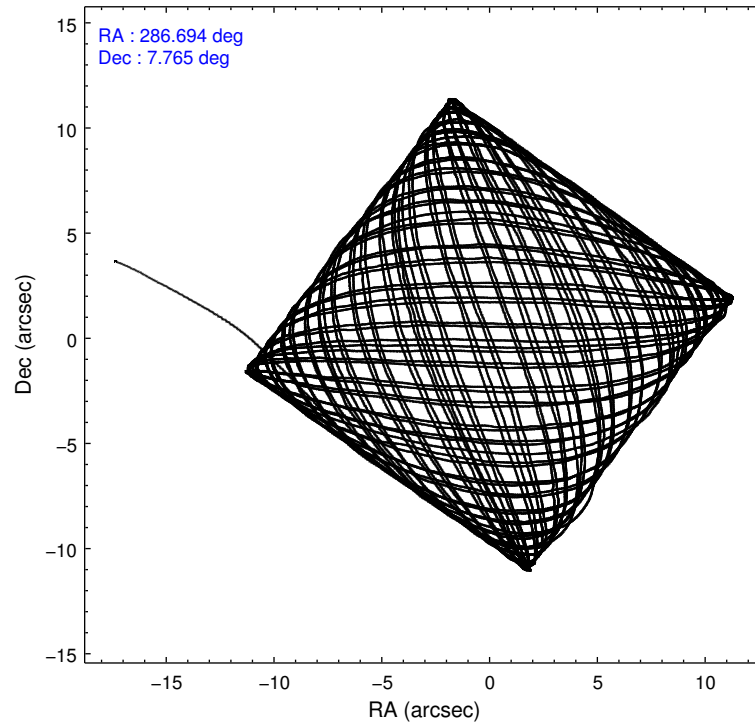
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	236324	225931	263364	241962	228041
rejected events	211996	200916	239916	219762	117296
rejected %	89%	88%	91%	90%	51%

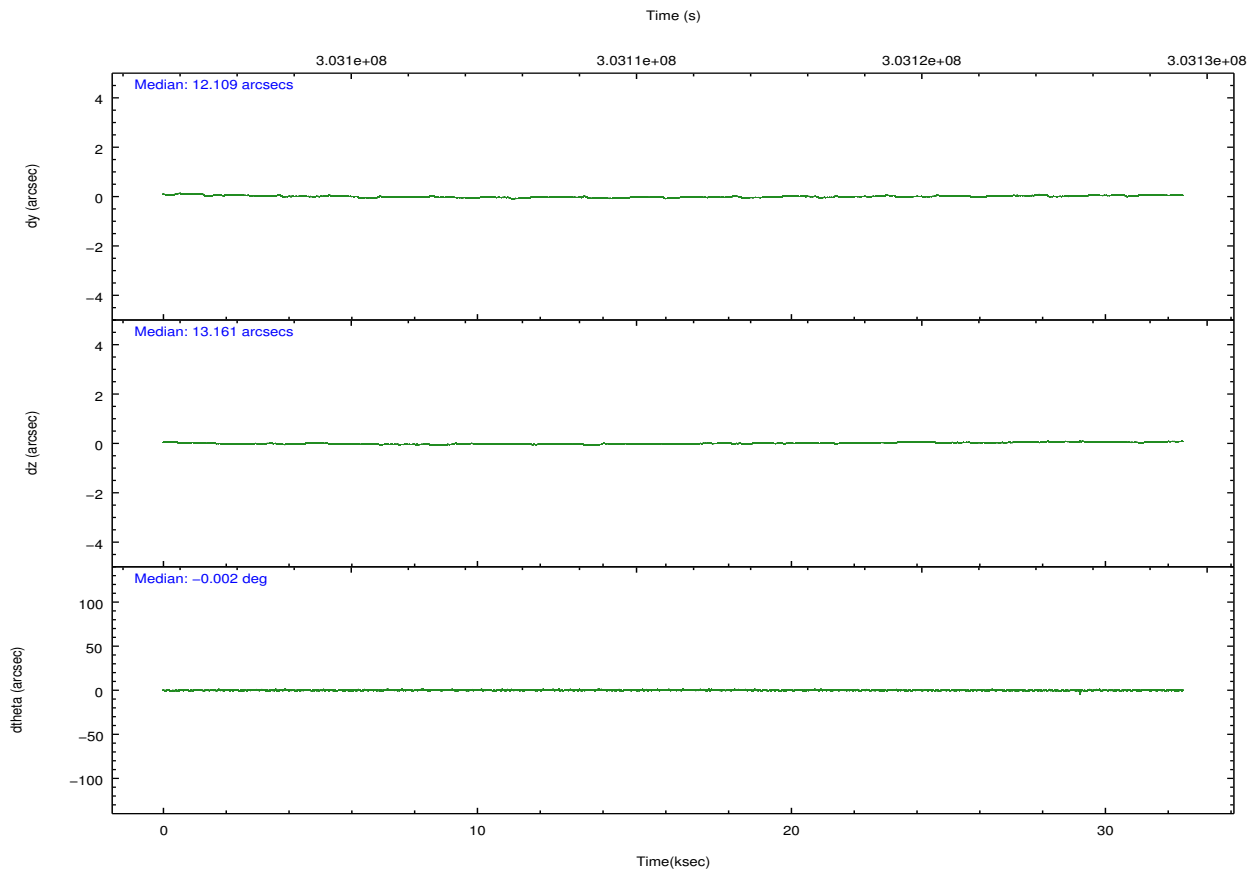
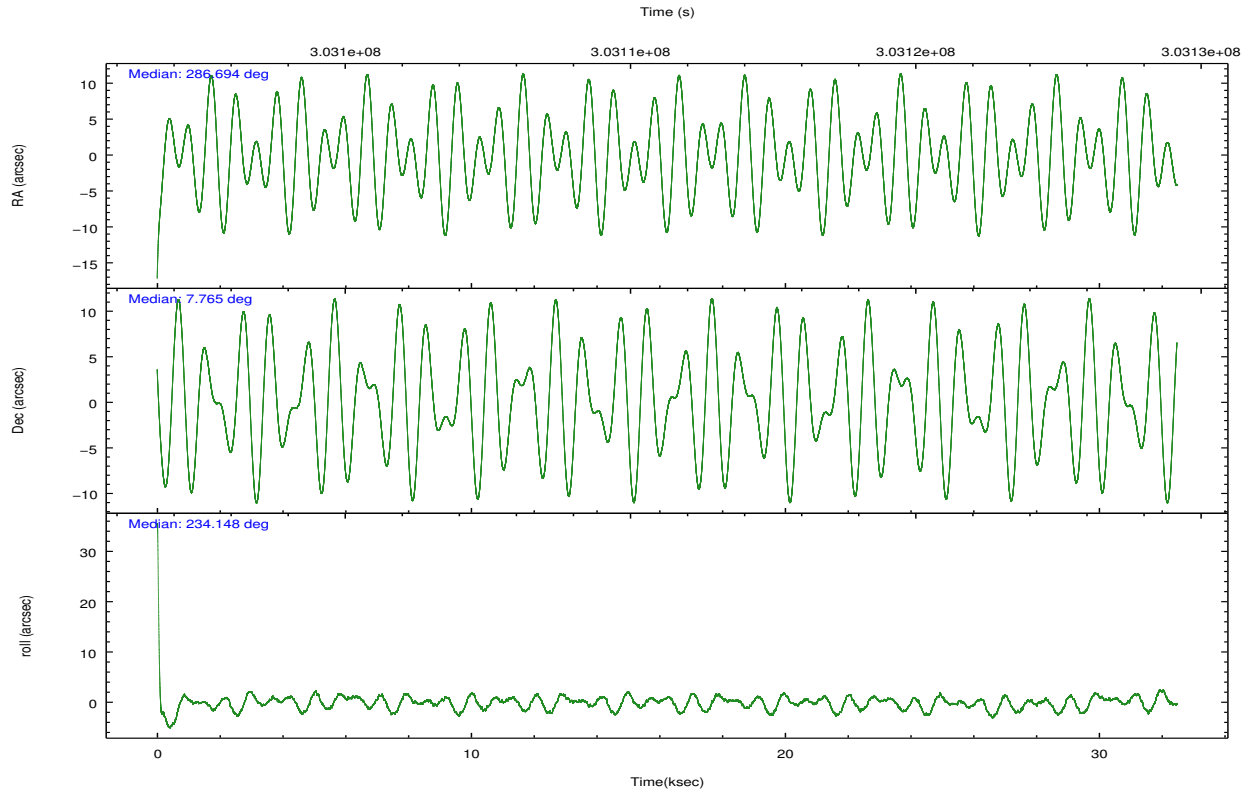
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	8995	8765	8859	8298	10823
	3%	3%	3%	3%	4%
grade 1 events	124	116	142	123	329
	0%	0%	0%	0%	0%
grade 2 events	5839	5509	5504	4722	23017
	2%	2%	2%	1%	10%
grade 3 events	2753	2922	2542	2470	10455
	1%	1%	0%	1%	4%
grade 4 events	2578	2952	2590	2471	10241
	1%	1%	0%	1%	4%
grade 5 events	7023	8016	6898	8330	24334
	2%	3%	2%	3%	10%
grade 6 events	4163	4873	3960	4245	56231
	1%	2%	1%	1%	24%
grade 7 events	204849	192778	232869	211303	92611
	86%	85%	88%	87%	40%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	286.696668	286.6939425421321	CCD I2 on	Y	Y
[deg] Pointing Dec	7.792727	7.76533992961763	CCD I3 on	Y	Y
[deg] Pointing Roll	233.944220	234.1532922061265	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	N	N
[mm] SIM translation stage pos	-230.192463	-230.1905944884211	CCD S3 on	O1	Y
[mm] SIM translation stage offset	-3.4	-3.401858514508547	CCD S4 on	N	N
[s] Observation start time (MET)	303095507.184000	303094432.20313	CCD S5 on	N	N
Observation start date	2007-08-10T01:10:42	2007-08-10T00:53:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	303127507.184000	303128238.75475	On-chip summing requested	N	N
Observation end date	2007-08-10T10:04:02	2007-08-10T10:17:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



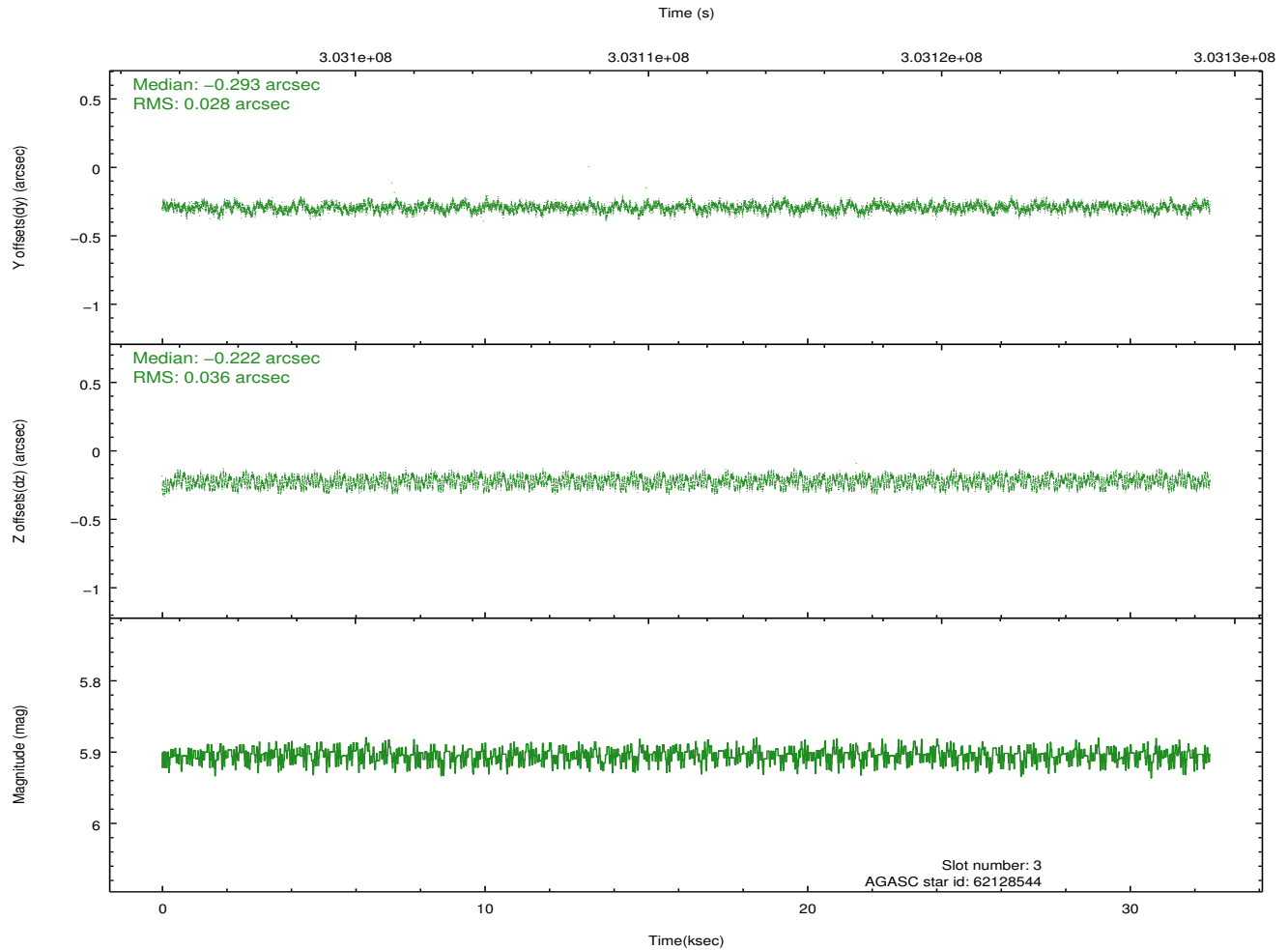
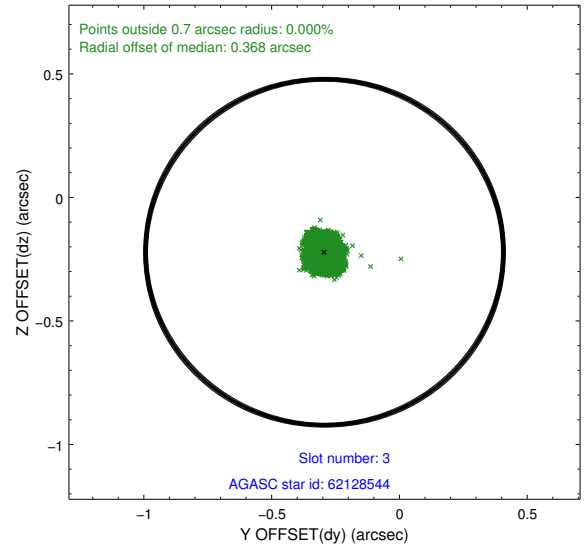
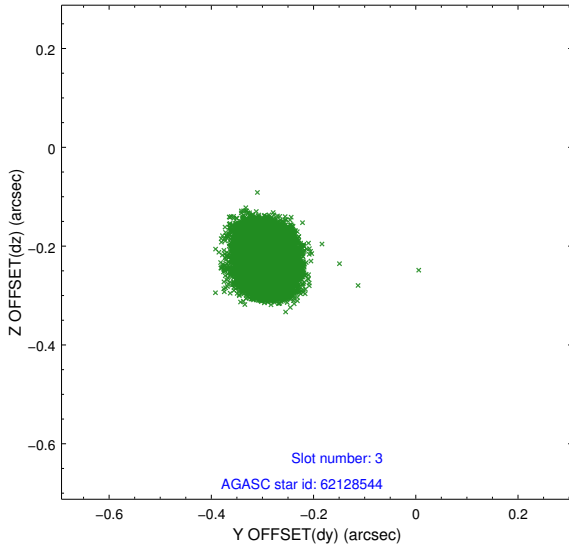


### Slot Statistics

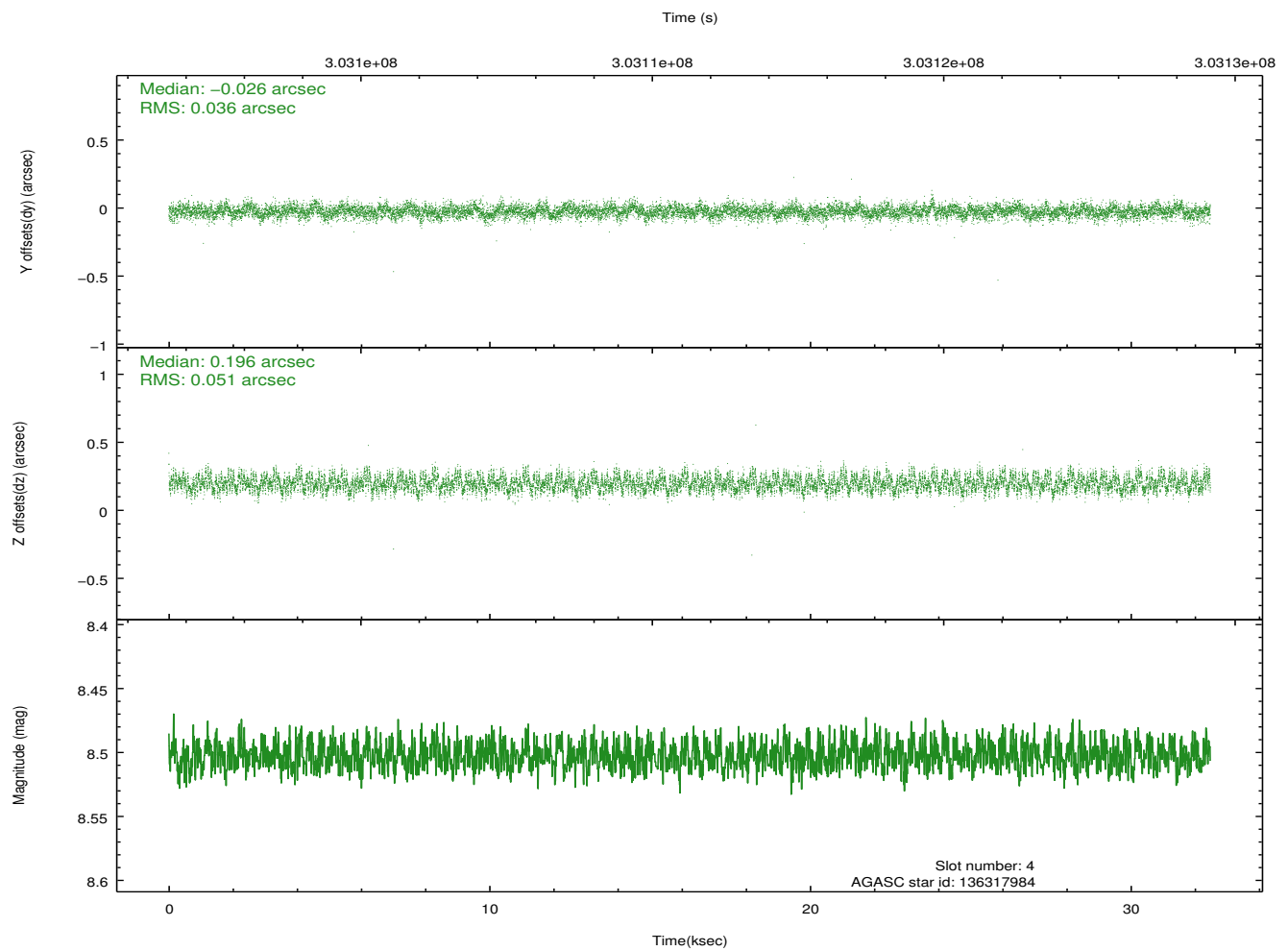
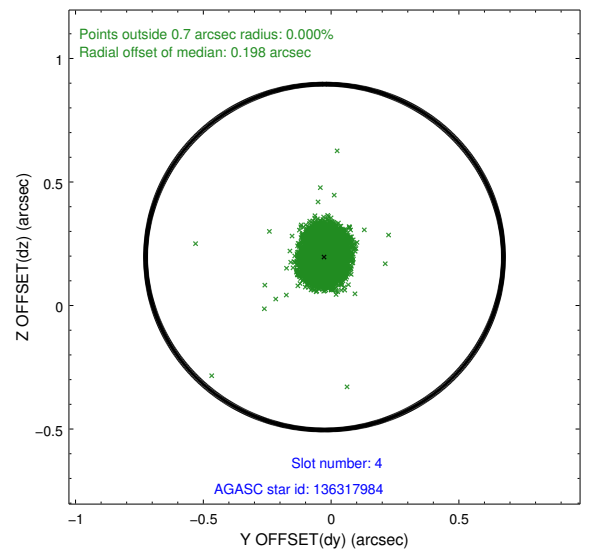
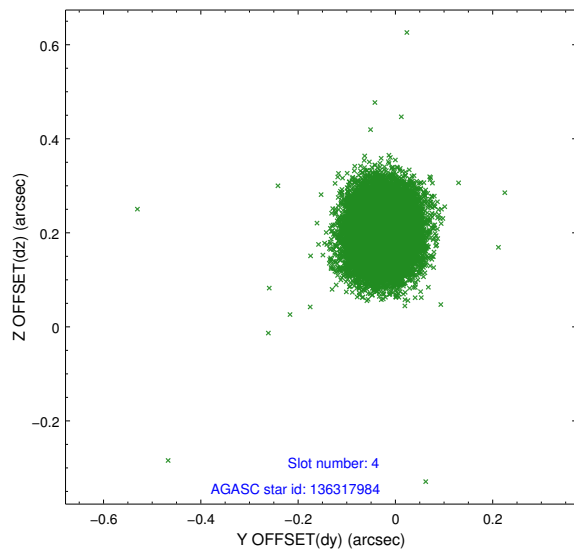
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	7921	0.058	-0.008	0.006	0.011	0.000000	0.000000	927.43	-906.50
1	FID	ACIS-I-5	7.23	7922	-0.226	0.062	0.006	0.010	0.000000	0.000000	-1820.94	991.01
2	FID	ACIS-I-6	7.25	7921	0.076	0.017	0.007	0.011	0.000000	0.000000	392.92	1635.54
3	GUIDE	62128544	5.90	15844	-0.293	-0.222	0.050	0.075	286.736928	7.151726	1780.69	1474.70
4	GUIDE	136317984	8.50	15839	-0.026	0.196	0.066	0.105	286.813953	8.124970	-1212.74	-365.63
5	GUIDE	136318600	9.16	15826	0.106	-0.079	0.066	0.109	287.193672	7.971966	-1565.32	1052.16
6	GUIDE	136321064	8.21	15769	0.178	0.044	0.061	0.097	286.410554	7.667399	966.22	-559.50
7	GUIDE	136323760	7.85	15838	0.037	0.062	0.049	0.080	286.241143	8.217392	-280.93	-2212.21

## 2.4 Star Slots

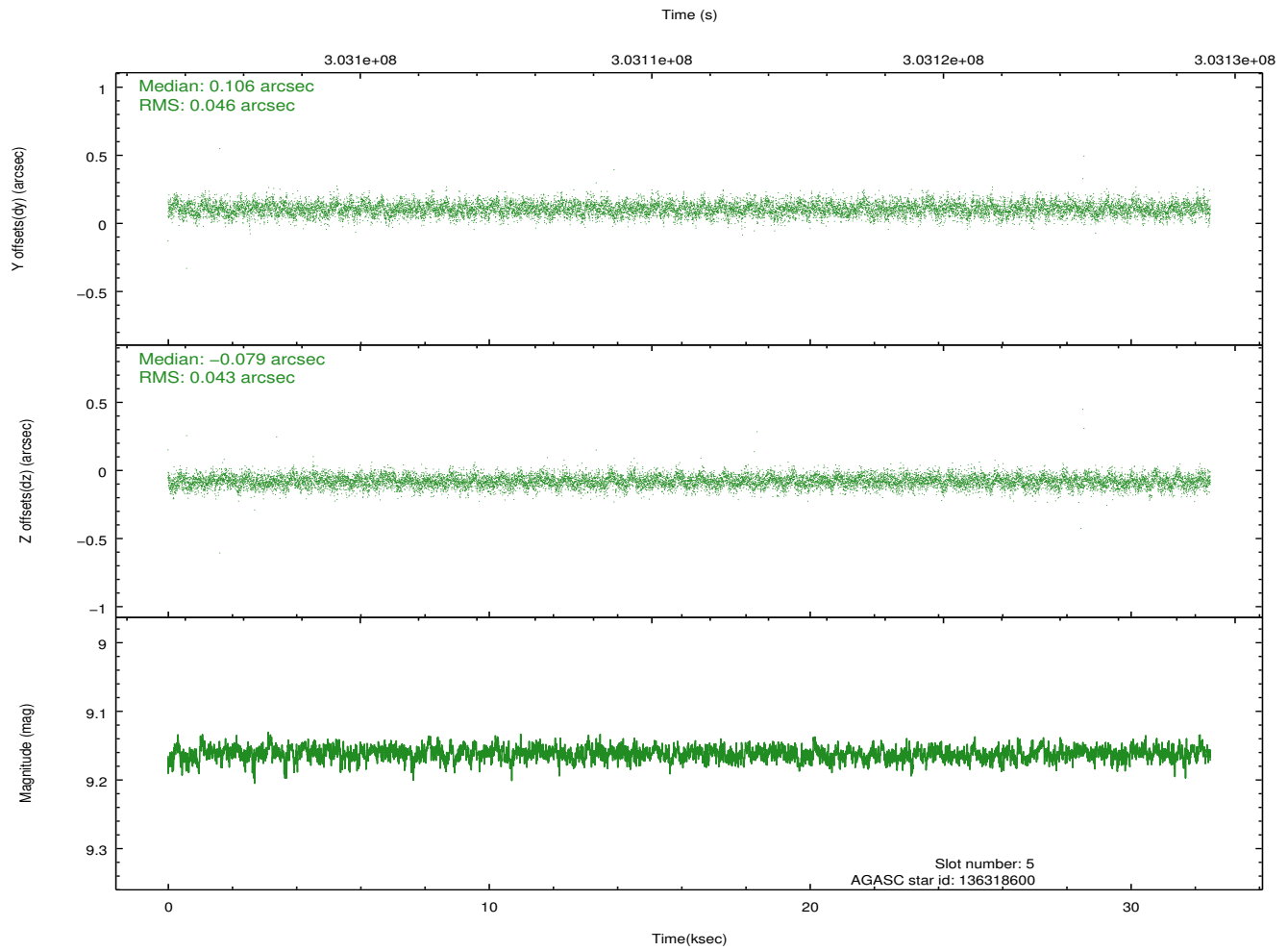
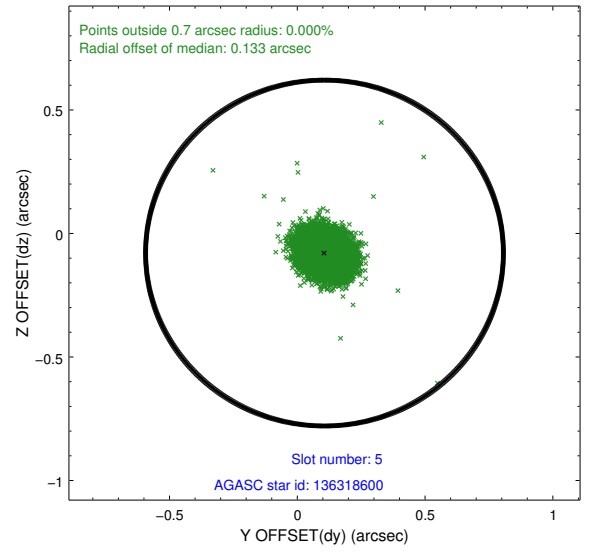
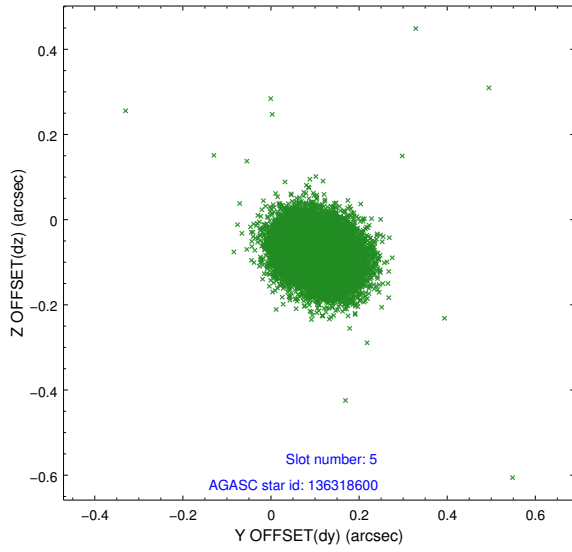
### 2.4.1 Slot 3



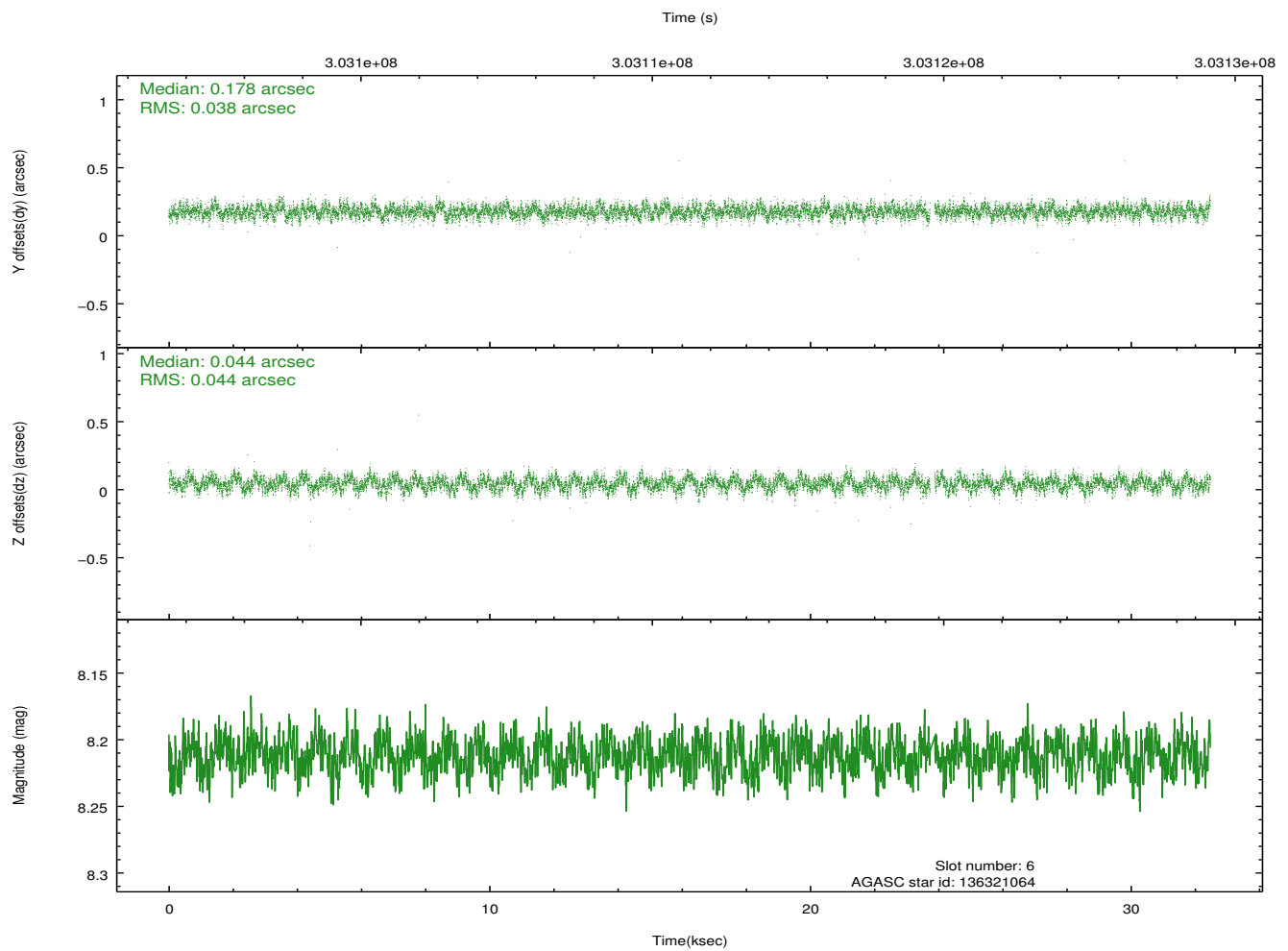
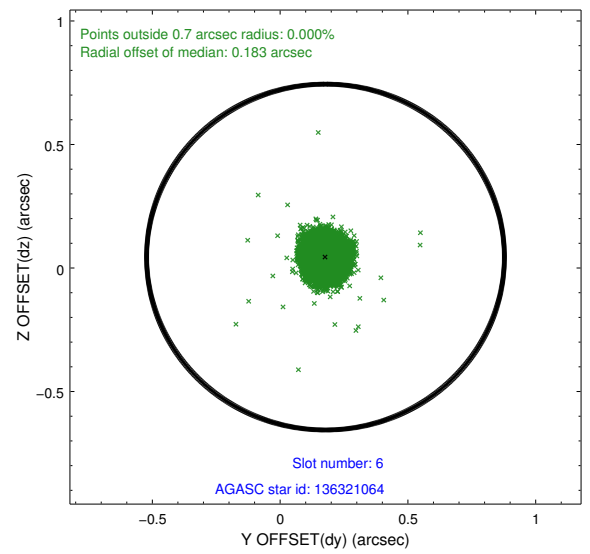
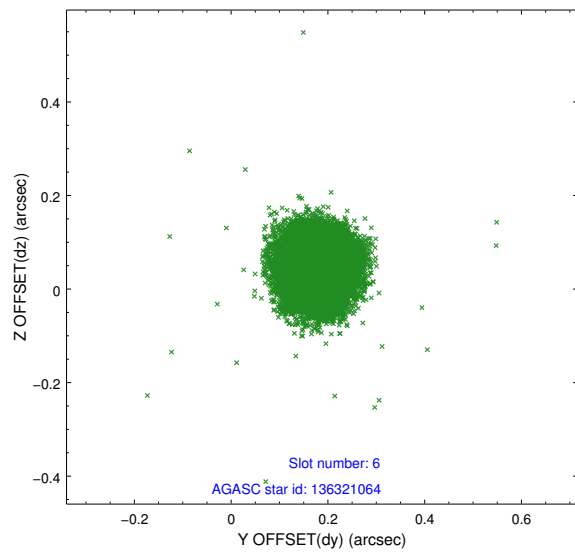
## 2.4.2 Slot 4



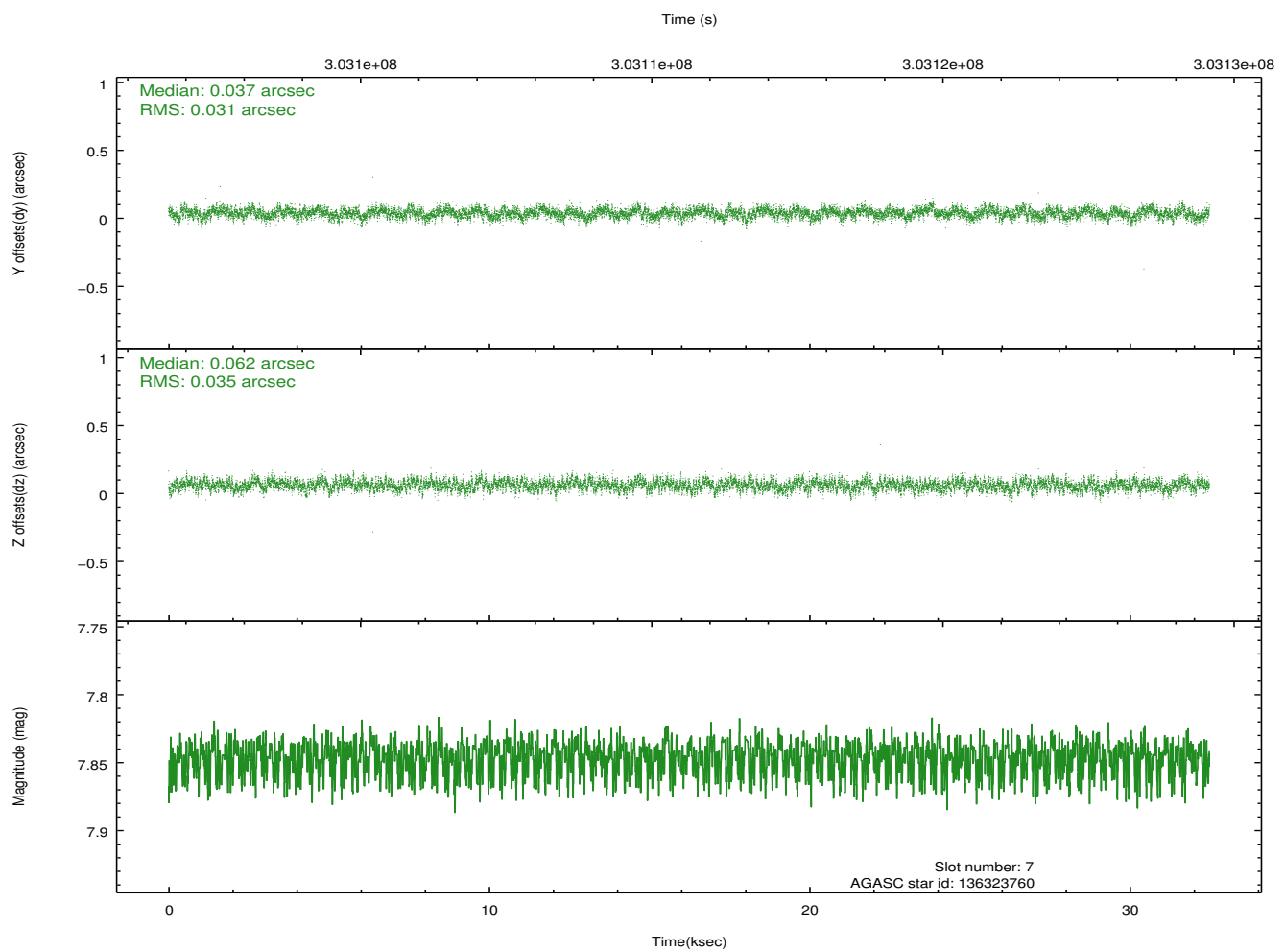
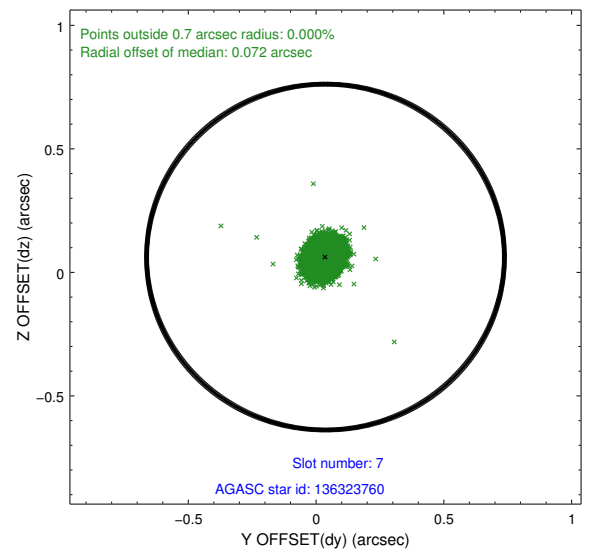
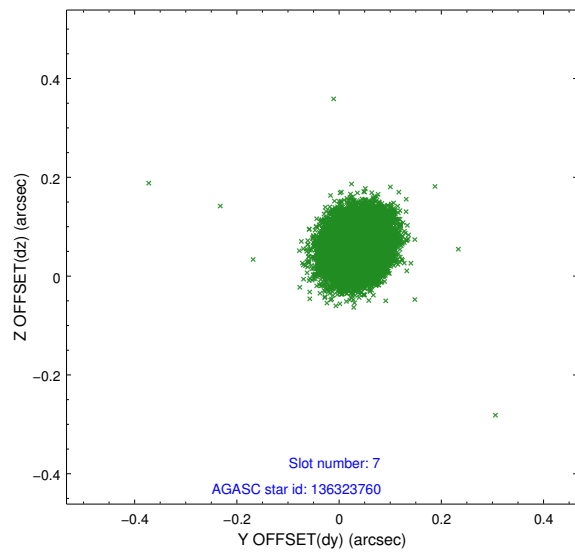
### 2.4.3 Slot 5



## 2.4.4 Slot 6

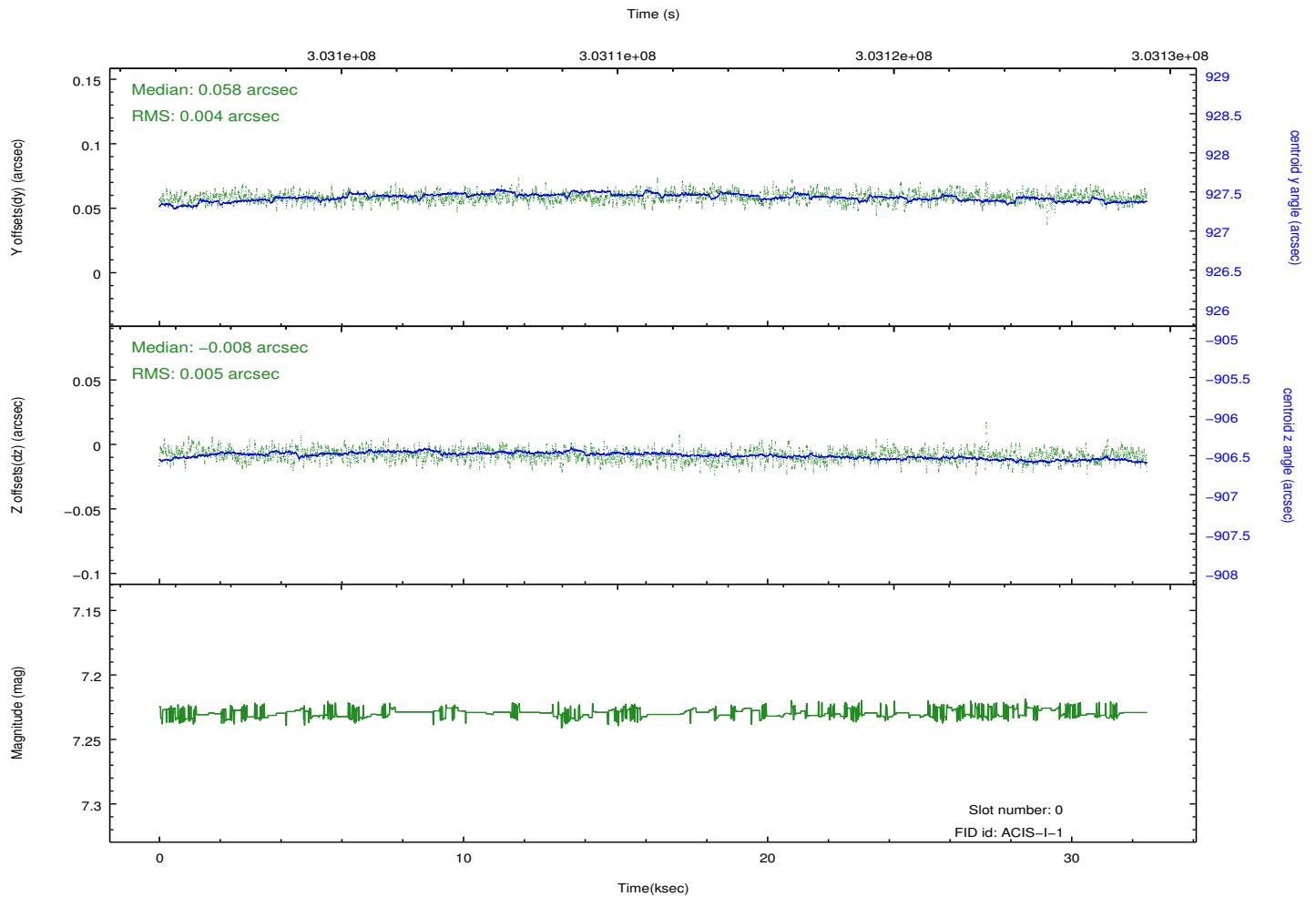
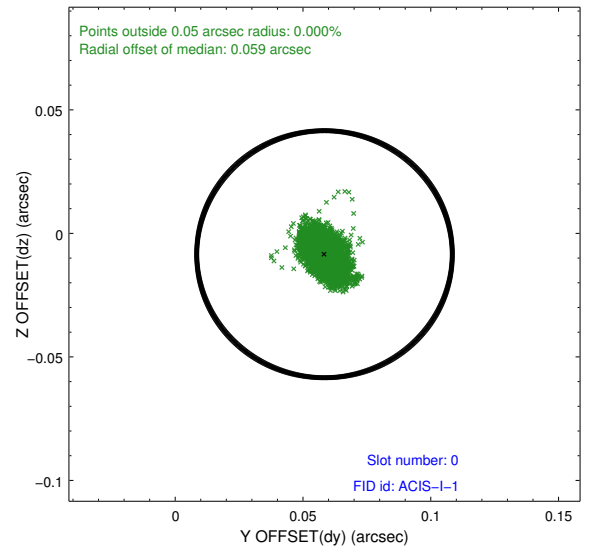
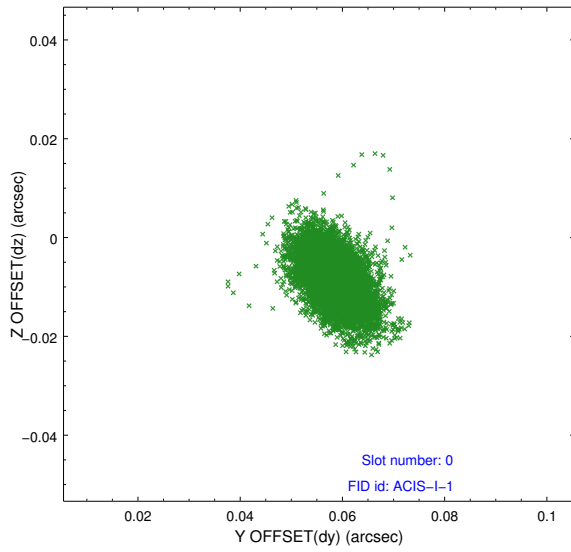


## 2.4.5 Slot 7

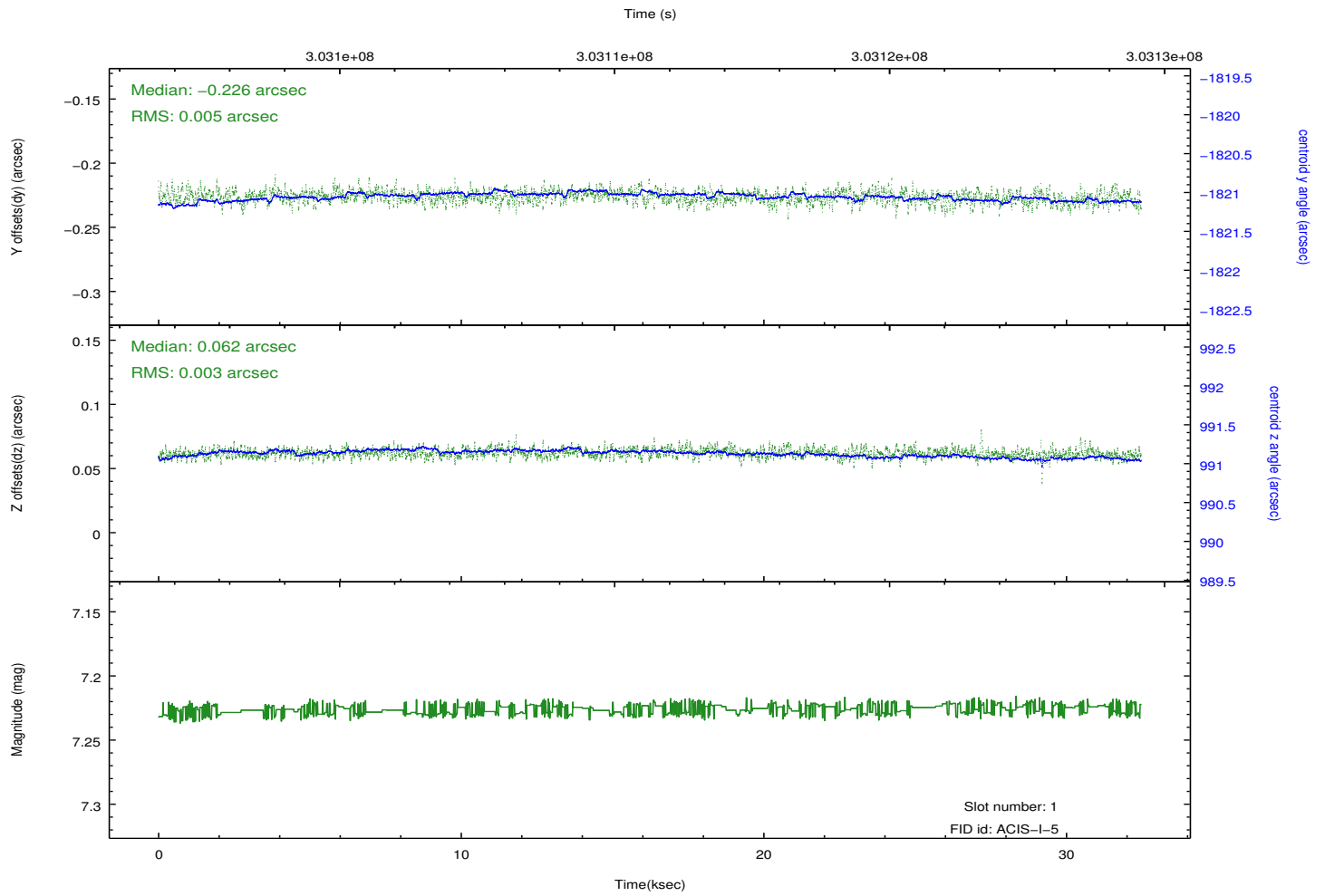
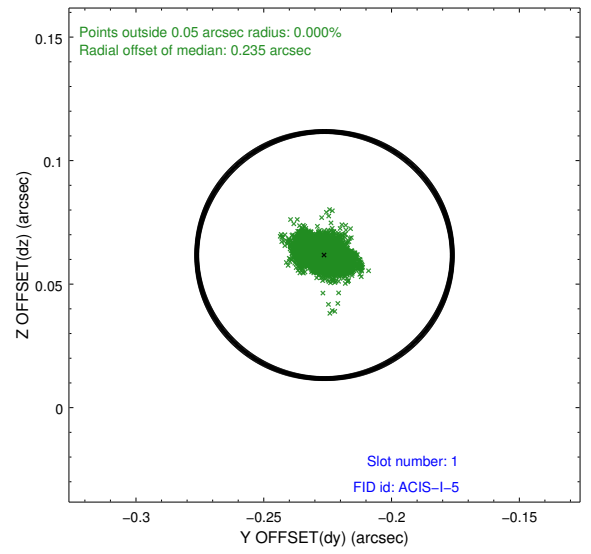
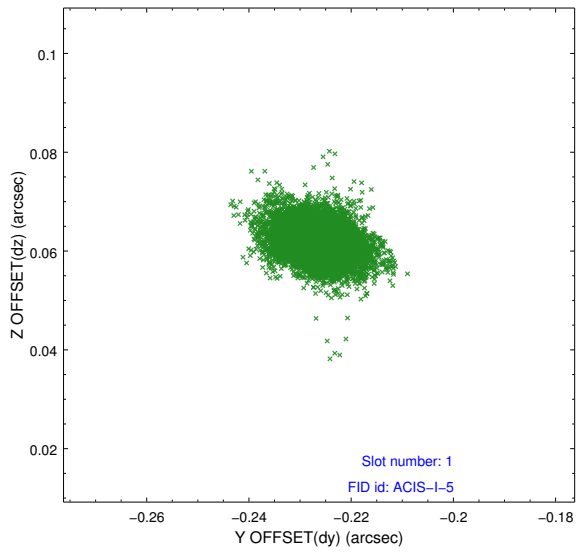


## 2.5 FID Slots

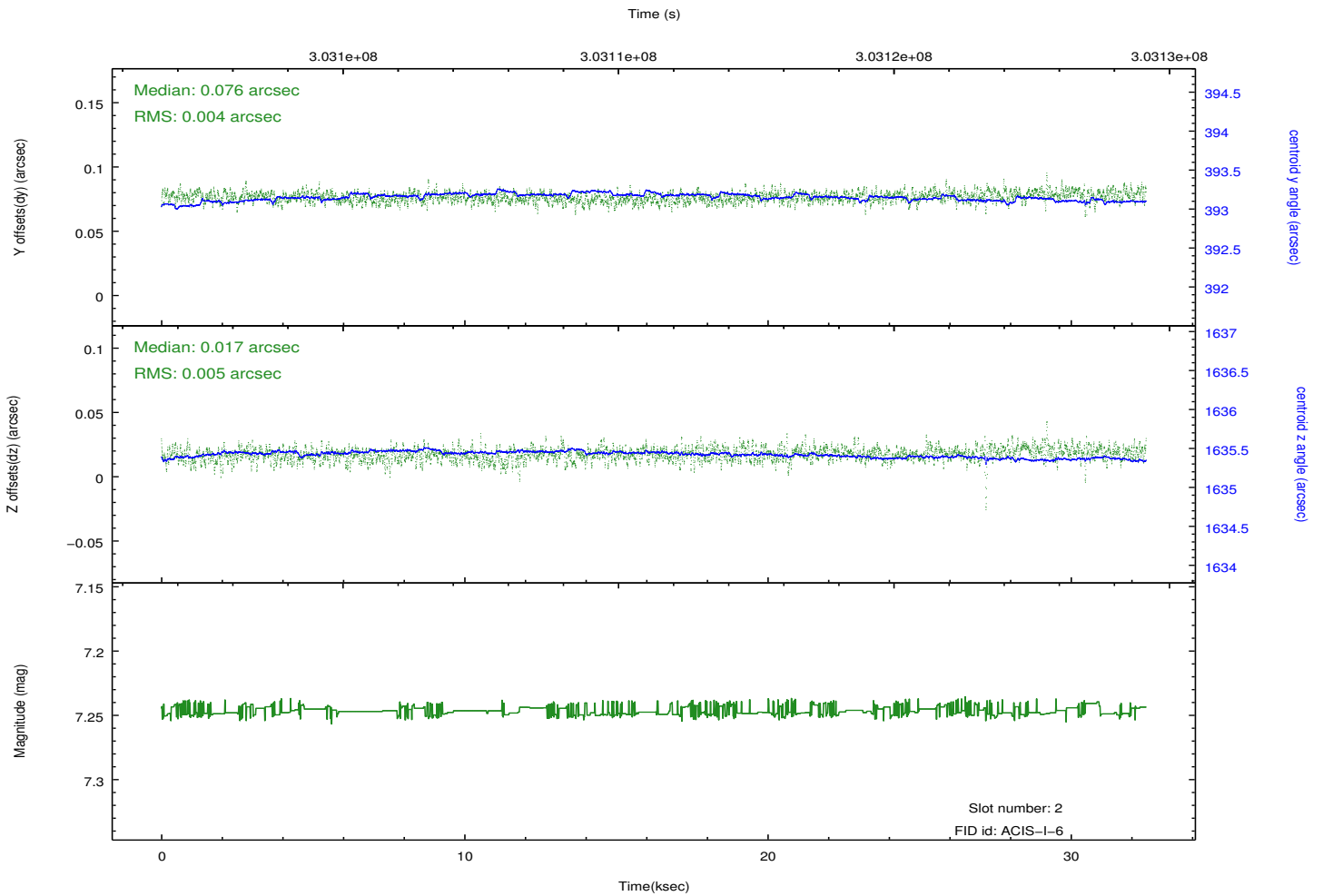
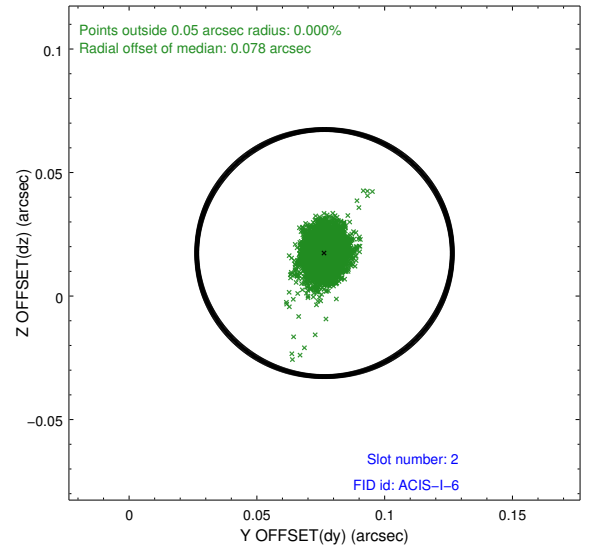
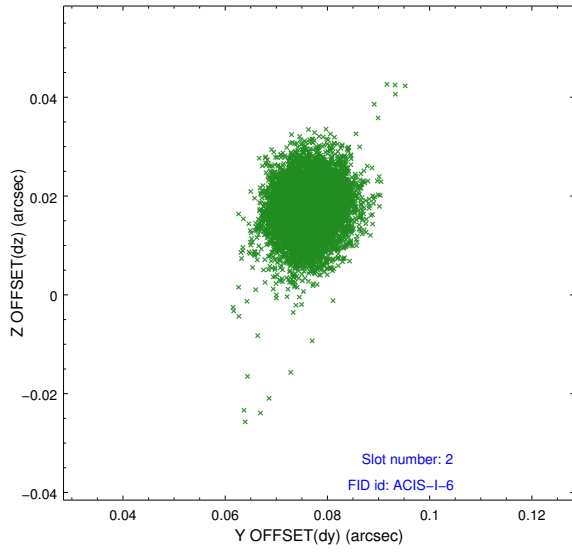
### 2.5.1 Slot 0



## 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)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.0228773

## A.2 Comments