

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5033 - L2 Version 3  
Chandra X-Ray Center

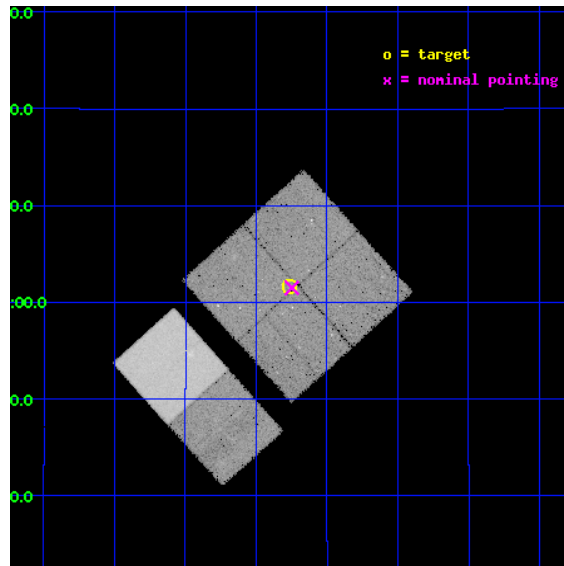
L2 Processing Date : Dec 3 2012

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# 1 Front

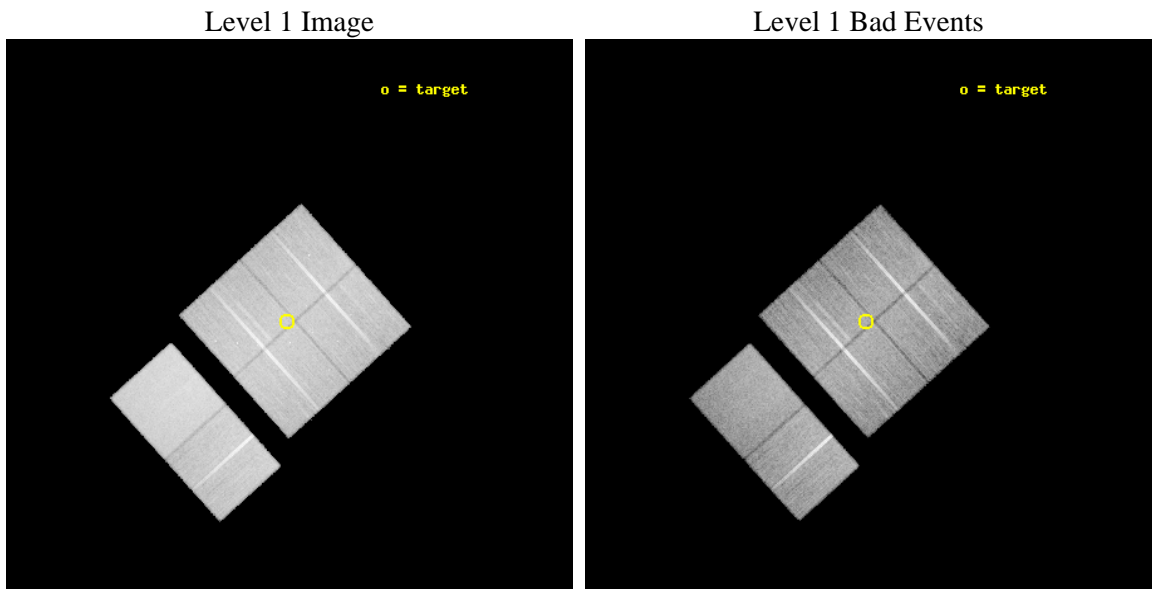
seq_num	900340	Sequence number
obs_id	5033	Observation id
title	A Chandra survey of Extremely Red Objects	Proposal title
observer	Dr. Marcella Brusa	Principal investigator
object	Daddi field - 2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	222.44125	Observer's specified target RA [deg]
dec_targ	9.027083	Observer's specified target Dec [deg]
ra_nom	222.43699004718	Nominal RA [deg]
dec_nom	9.0251227853646	Nominal Dec [deg]
roll_nom	227.95124247564	Nominal Roll [deg]
revision	3	Processing version of data
ontime	29782.399889052	Sum of GTIs [s]
livetime	29405.277208848	Livetime [s]
ontime0	29779.158888847	Sum of GTIs [s]
ontime1	29775.917908549	Sum of GTIs [s]
ontime2	29779.158908784	Sum of GTIs [s]
ontime3	29782.399889052	Sum of GTIs [s]
ontime6	29782.399889052	Sum of GTIs [s]
ontime7	29782.399889052	Sum of GTIs [s]
l2events	245941	Number of level 2 events



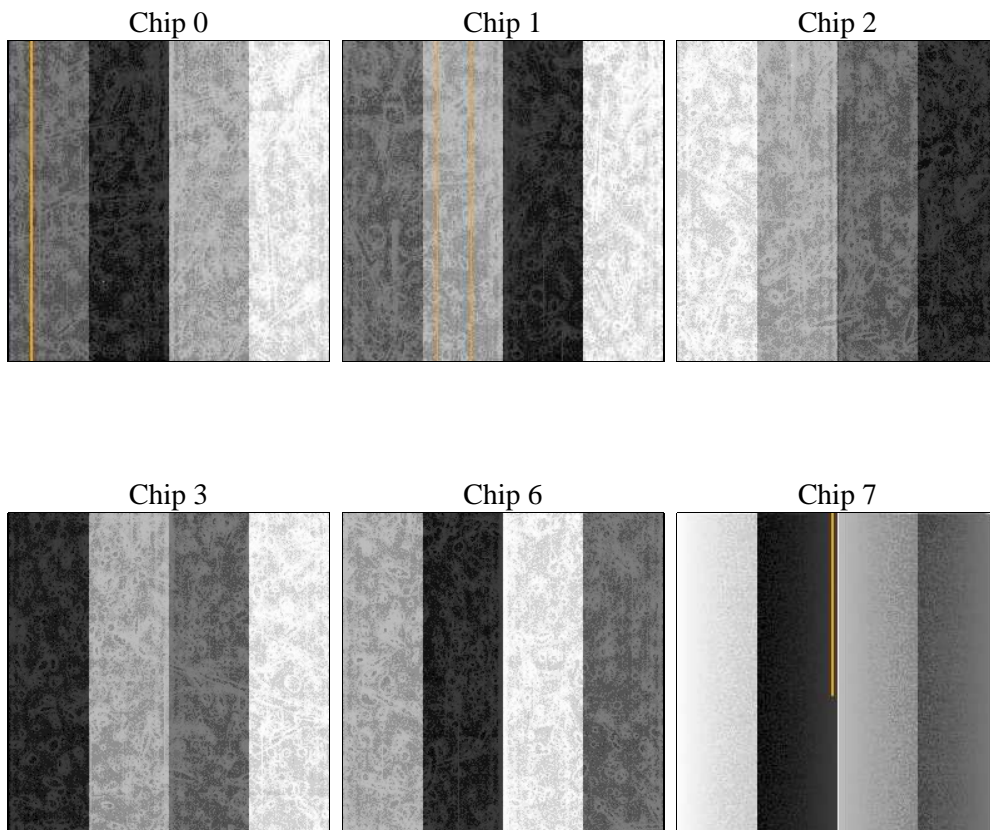
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29635.660000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	29782.399889052	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	29779.158888847	Sum of GTIs [s]
date	2012-12-03T02:05:23	Date and time of file creation	ontime1	29775.917908549	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	29779.158908784	Sum of GTIs [s]
			ontime3	29782.399889052	Sum of GTIs [s]
			ontime6	29782.399889052	Sum of GTIs [s]
			ontime7	29782.399889052	Sum of GTIs [s]
			l1events	1381973	Number of level 1 events

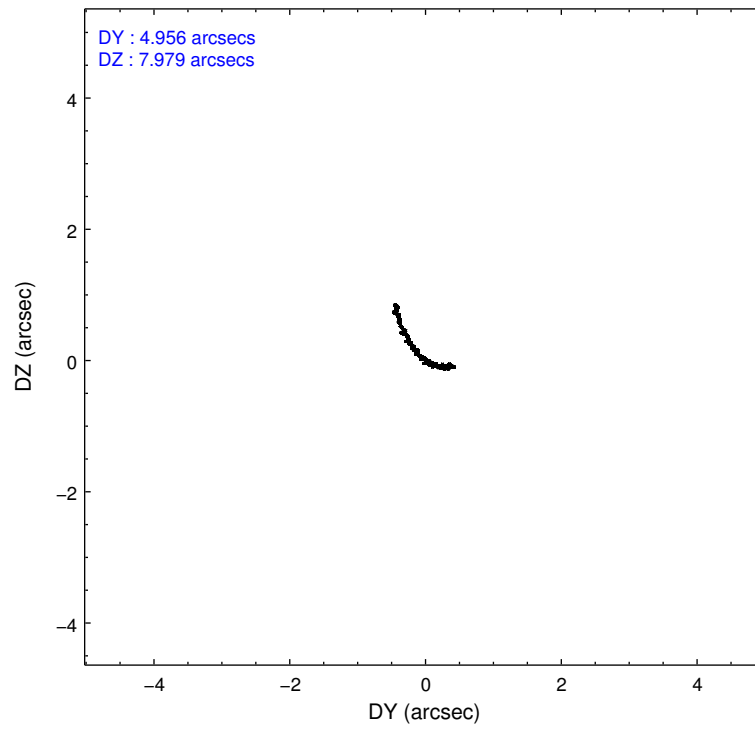
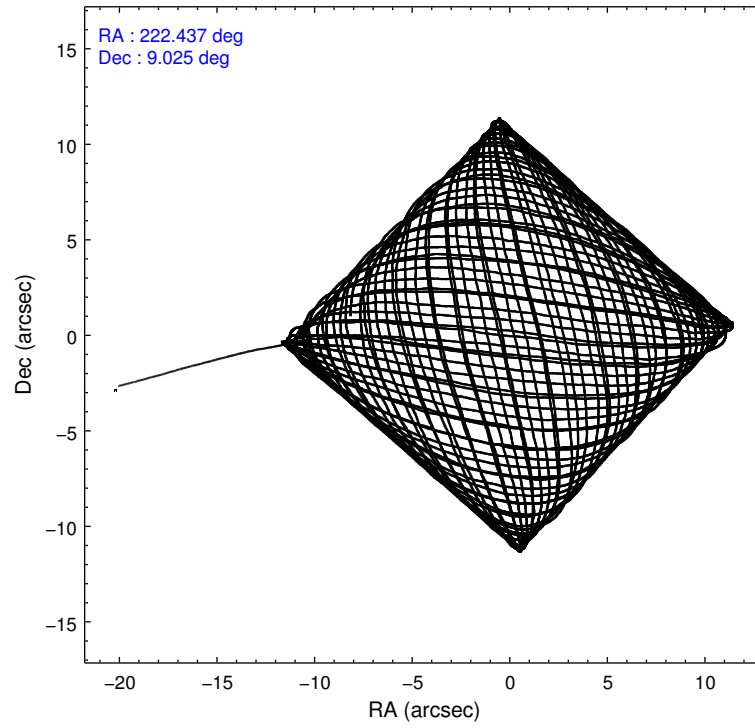
### 2.1.4 Events

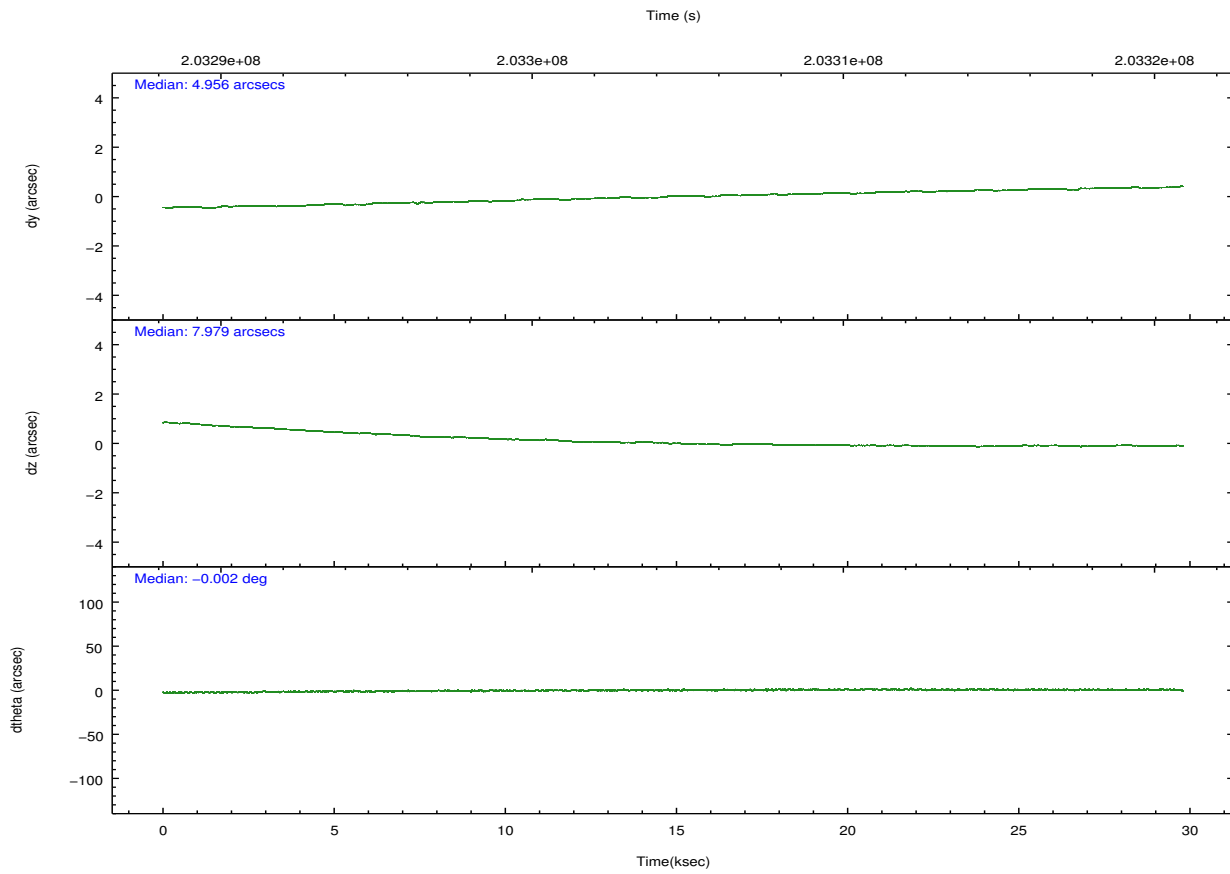
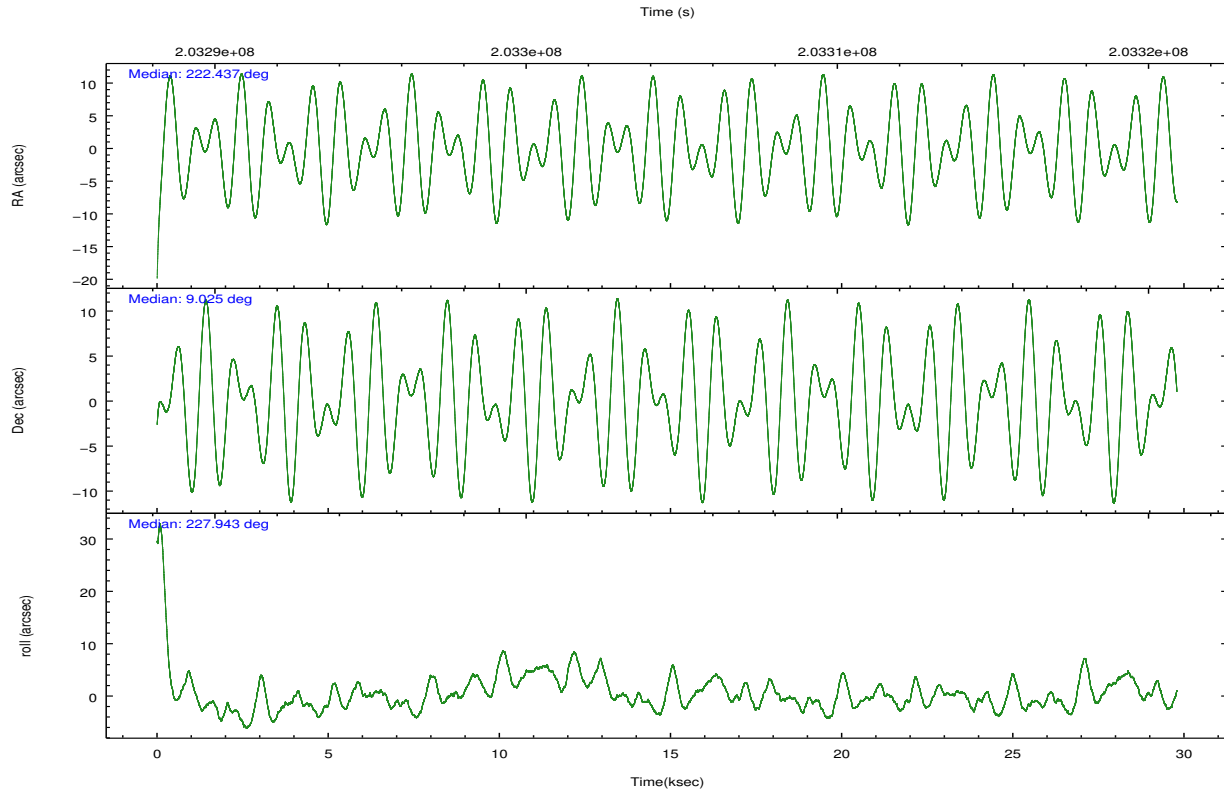
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	208000	205202	219301	217725	229751	301994	grade 0 events	13171	12893	13686	13565	12360	11942
rejected events	179759	175712	191539	189862	201454	176636		6%	6%	6%	6%	5%	3%
rejected %	86%	85%	87%	87%	87%	58%	grade 1 events	132	102	134	162	119	295
								0%	0%	0%	0%	0%	0%
							grade 2 events	5641	6179	5341	5344	5749	25027
								2%	3%	2%	2%	2%	8%
							grade 3 events	2724	2872	2503	2523	2633	11207
								1%	1%	1%	1%	1%	3%
							grade 4 events	2530	2680	2421	2576	2548	11009
								1%	1%	1%	1%	1%	3%
							grade 5 events	8815	9357	8486	9813	10413	28428
								4%	4%	3%	4%	4%	9%
							grade 6 events	4787	5464	4347	4455	5591	68896
								2%	2%	1%	2%	2%	22%
							grade 7 events	170200	165655	182383	179287	190338	145190
								81%	80%	83%	82%	82%	48%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	222.442671	222.4369900471803	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.051929	9.025122785364628	Alternating exposures requested	N	N
[deg] Pointing Roll	227.741667	227.9512424756439	[s] Primary exposure time	0.000000	3.2
[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)	203289791.184000	203288400.23695			
Observation start date	2004-06-10T21:22:07	2004-06-10T21:00:00			
[s] Observation end time (MET)	203319427.184000	203319656.07583			
Observation end date	2004-06-11T05:36:03	2004-06-11T05:40:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



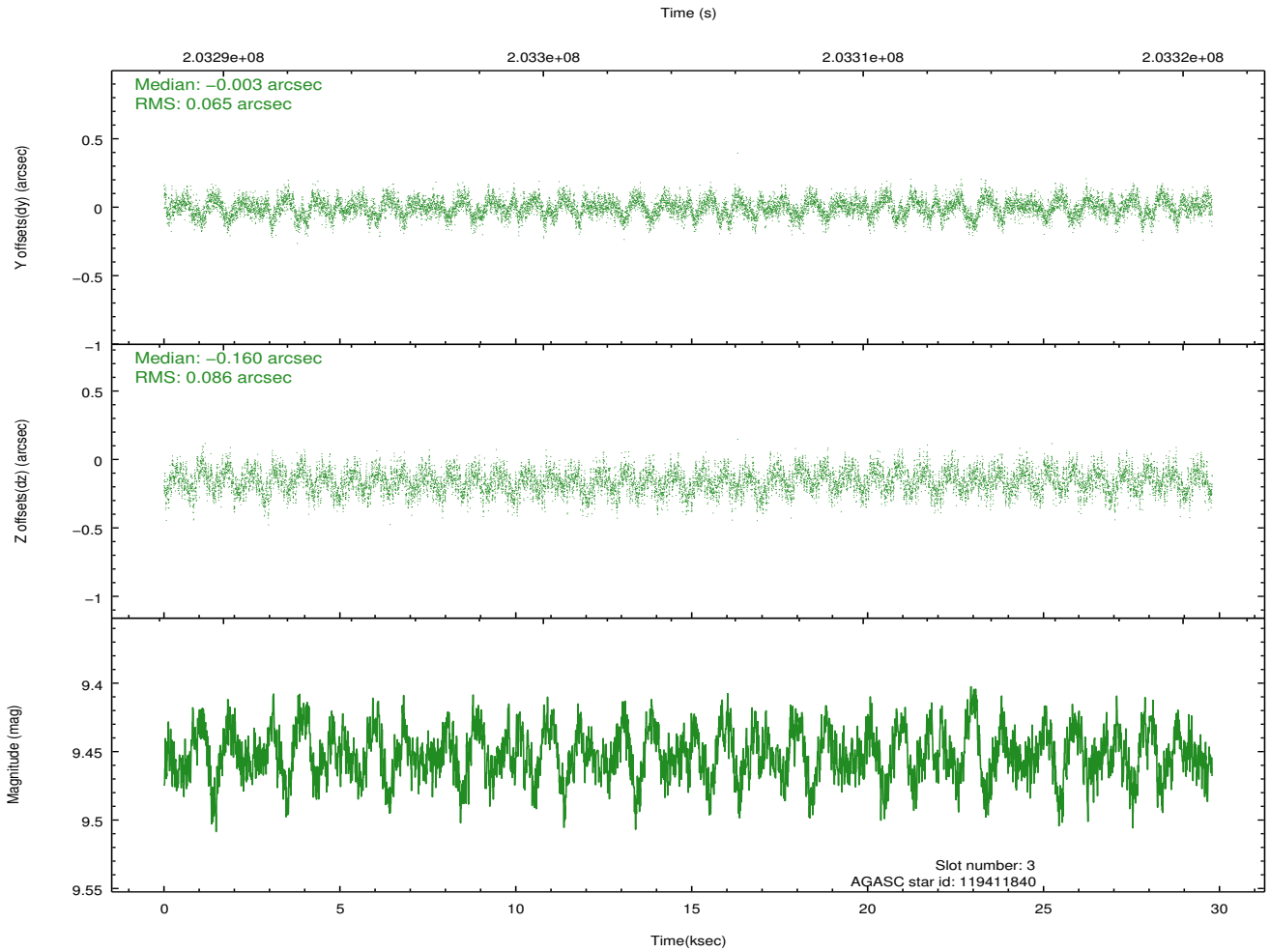
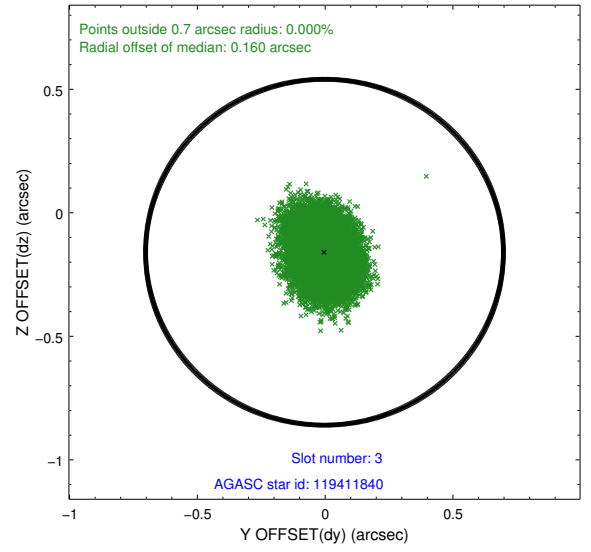
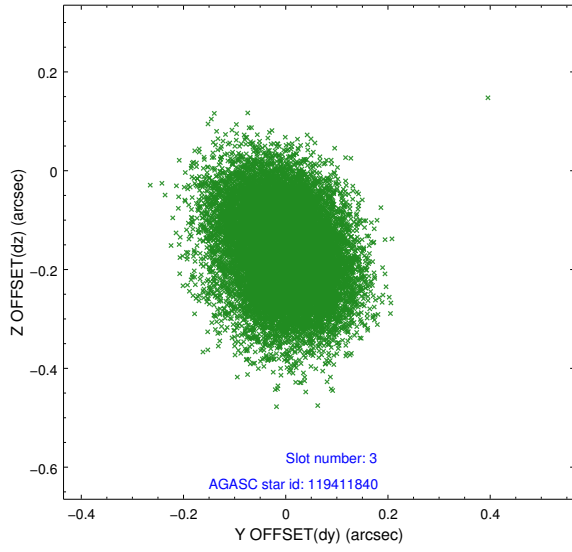


### Slot Statistics

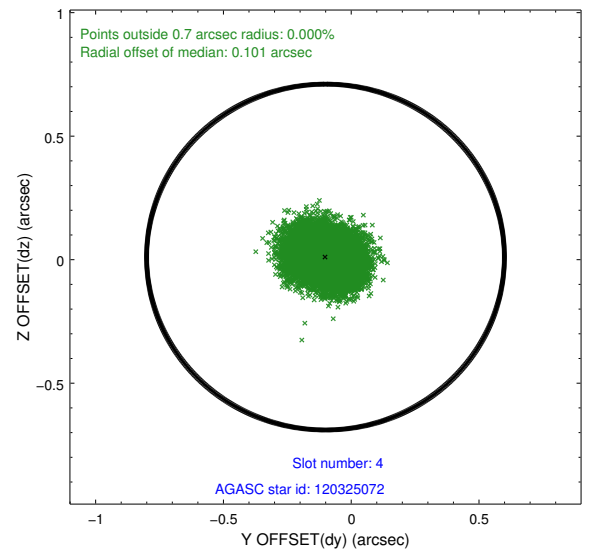
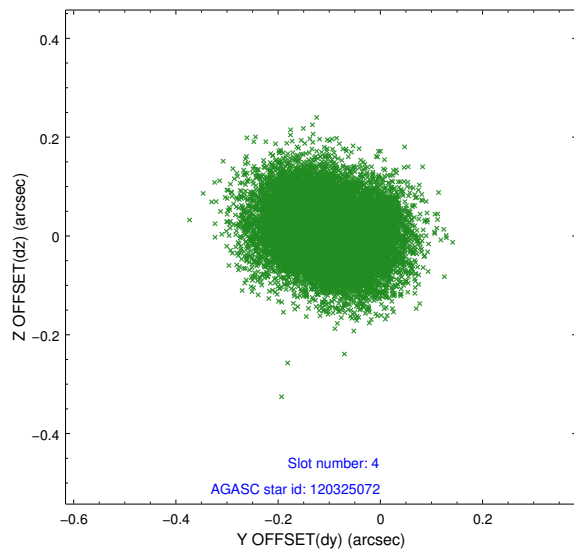
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	7266	0.040	0.021	0.010	0.020	0.000000	0.000000	934.84	-831.52
1	FID	ACIS-I-5	7.23	7264	-0.173	0.064	0.013	0.019	0.000000	0.000000	-1813.43	1065.99
2	FID	ACIS-I-6	7.25	7265	0.041	-0.013	0.013	0.019	0.000000	0.000000	400.31	1710.49
3	GUIDE	119411840	9.45	14524	-0.003	-0.160	0.116	0.184	222.041386	9.490009	-209.01	-2115.73
4	GUIDE	120325072	9.25	14521	-0.101	0.011	0.097	0.155	222.613060	9.408510	-1356.85	-415.53
5	GUIDE	120326408	7.56	14531	-0.020	0.075	0.050	0.082	223.162273	9.209523	-2141.42	1509.45
6	GUIDE	120327320	9.67	14470	0.196	0.117	0.101	0.164	222.306742	8.399268	2064.73	1222.54
7	GUIDE	120333112	7.49	14532	-0.073	-0.036	0.065	0.100	222.982560	8.825335	-688.27	1969.02

## 2.4 Star Slots

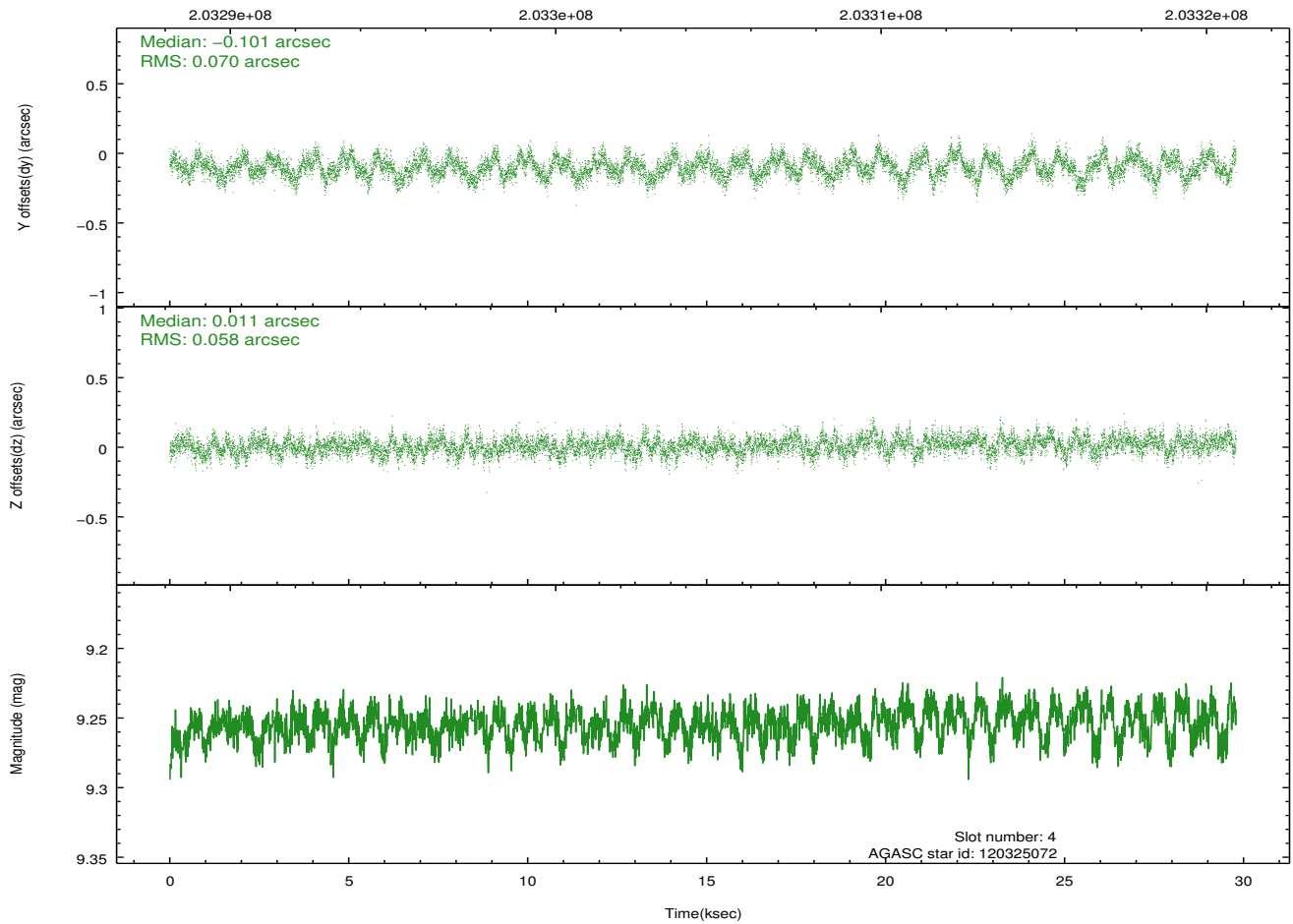
### 2.4.1 Slot 3



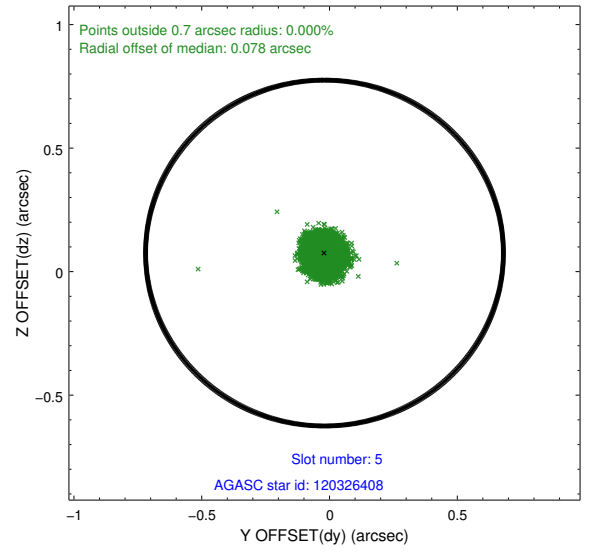
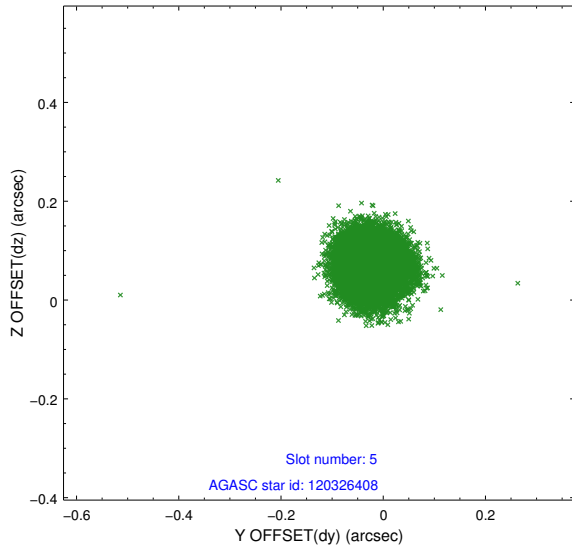
## 2.4.2 Slot 4



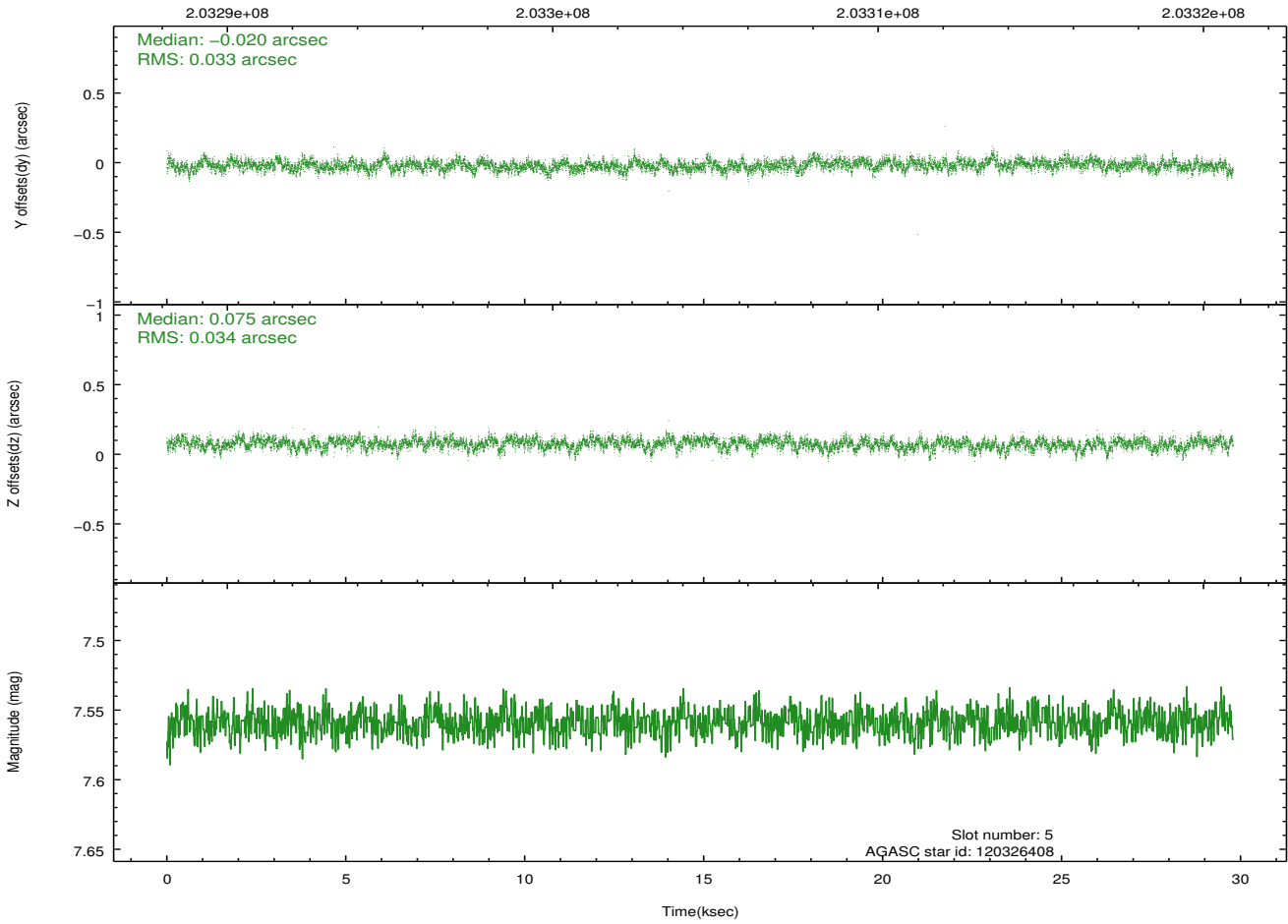
Time (s)



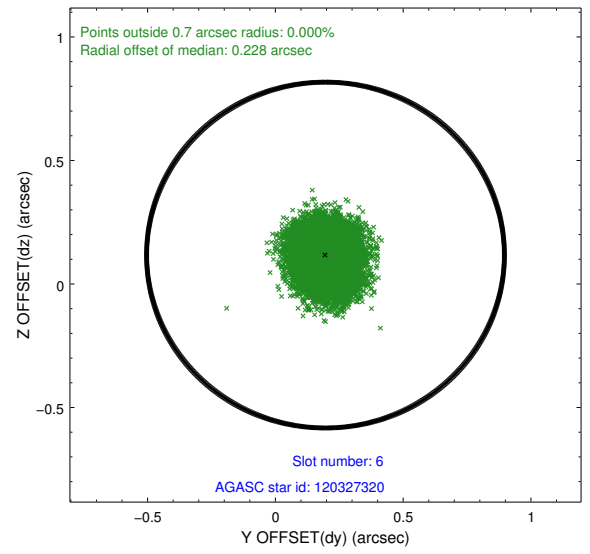
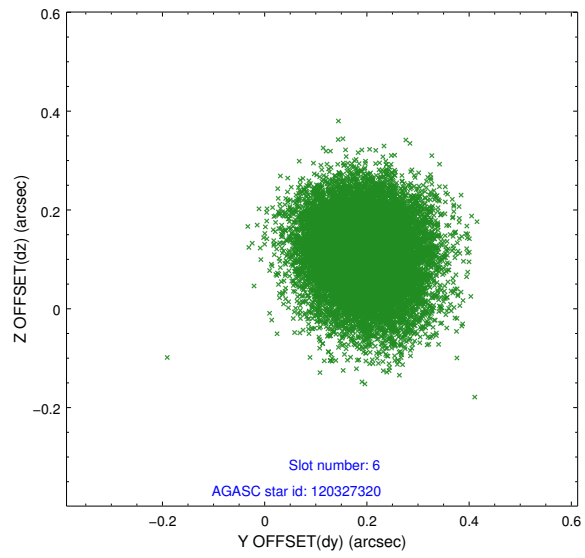
### 2.4.3 Slot 5



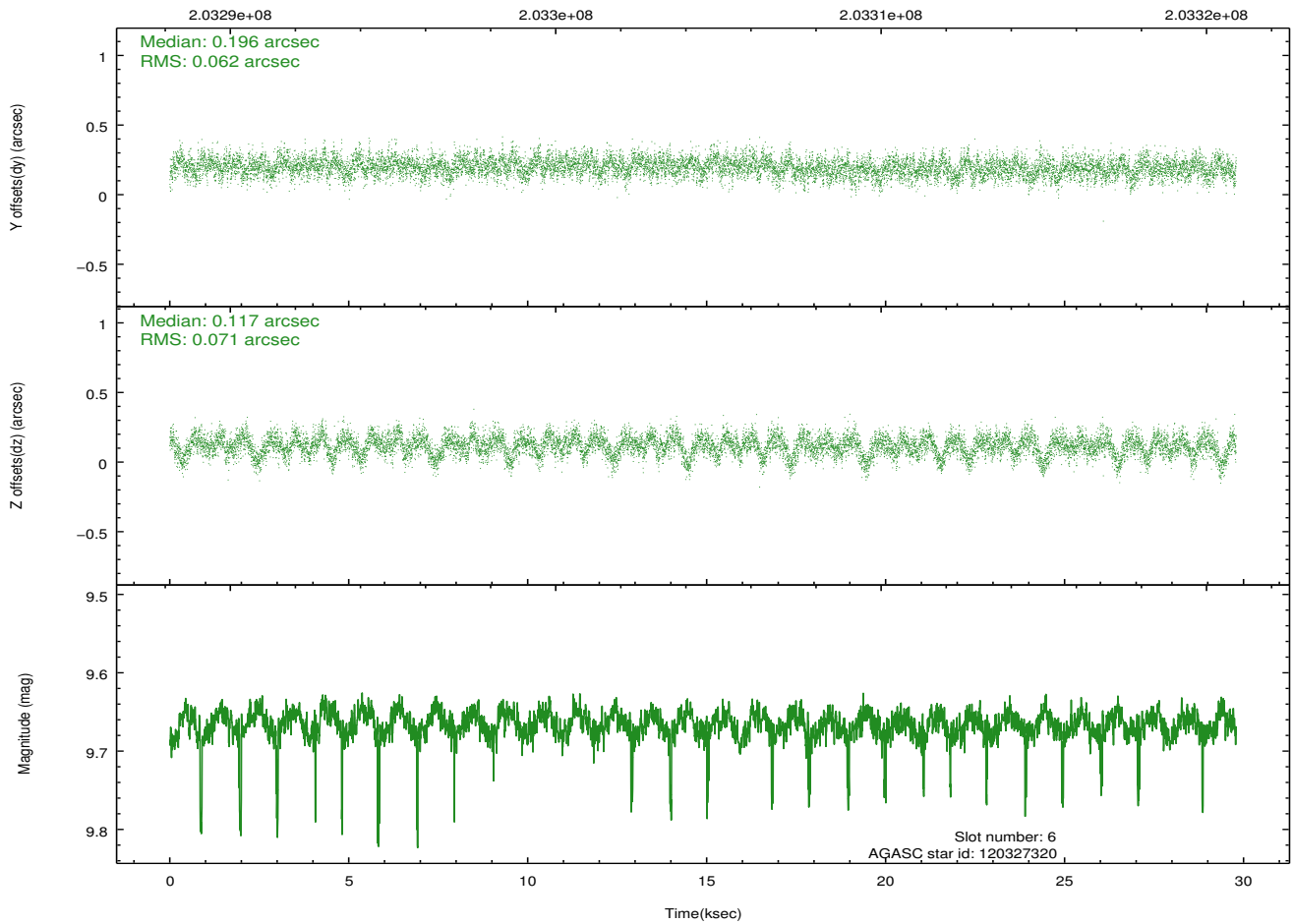
Time (s)



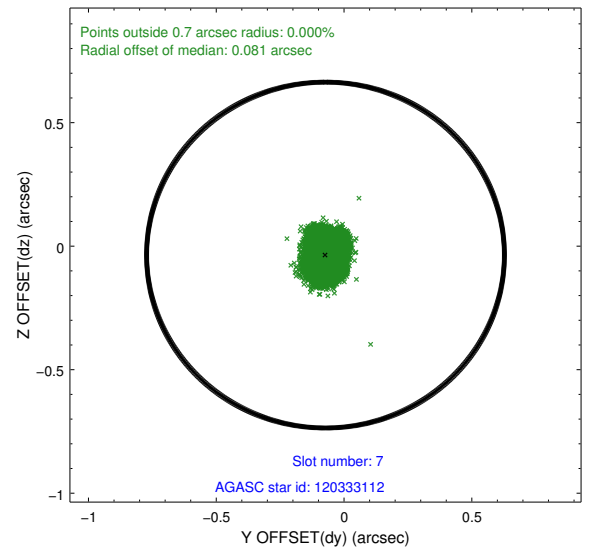
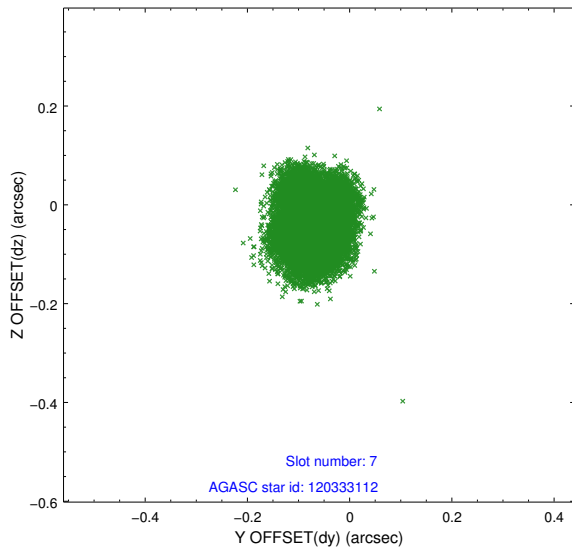
## 2.4.4 Slot 6



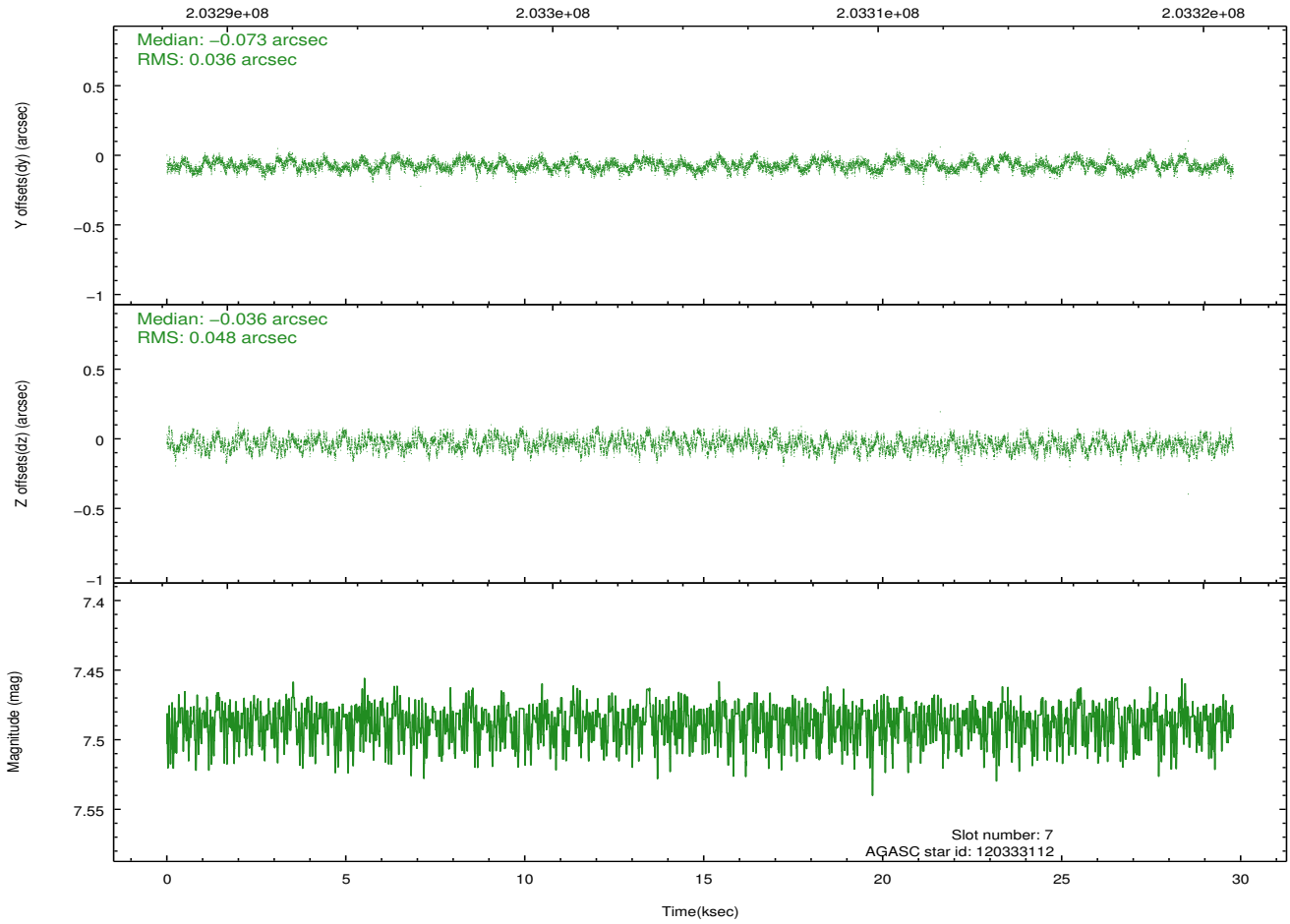
Time (s)



## 2.4.5 Slot 7

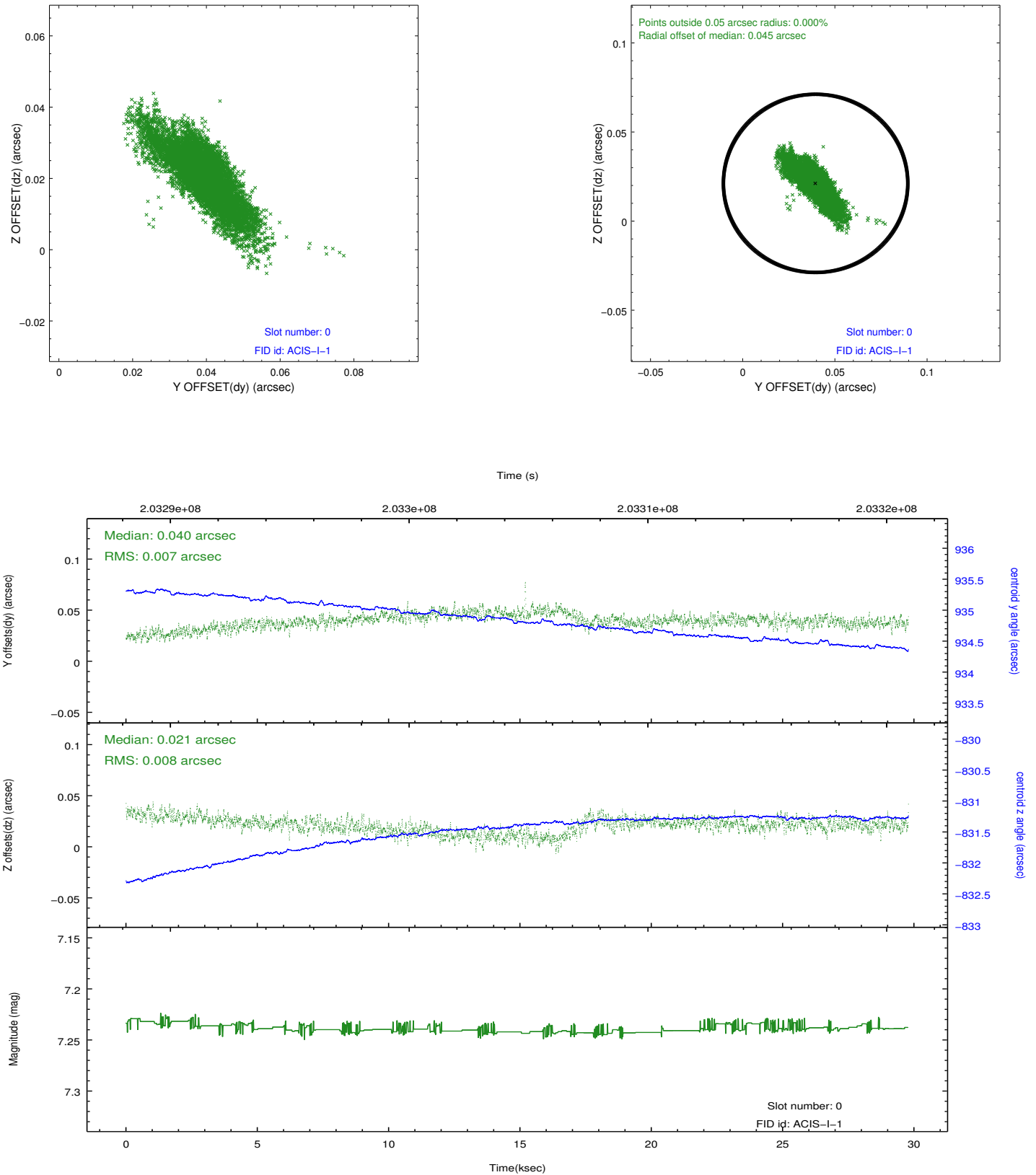


Time (s)

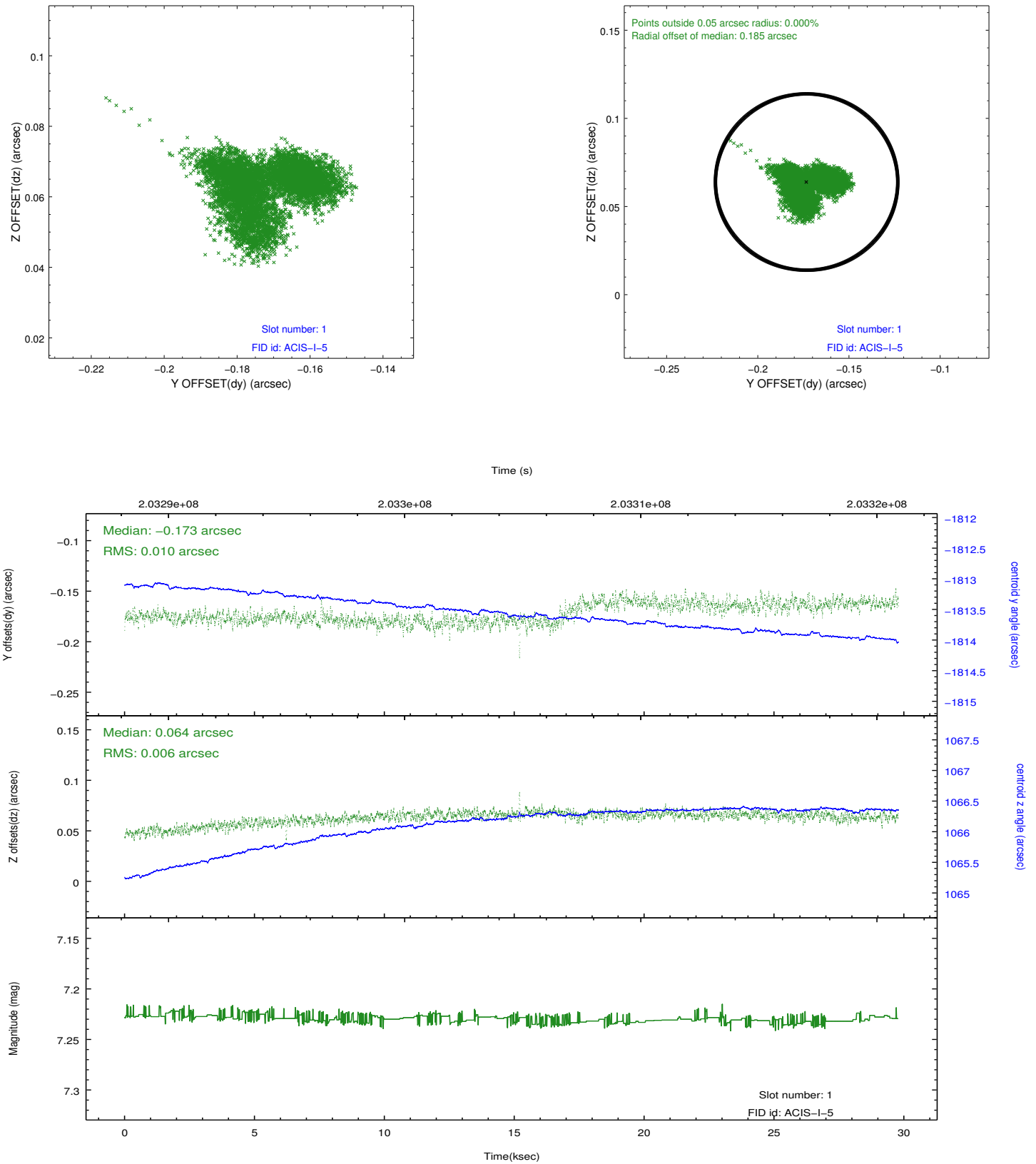


## 2.5 FID Slots

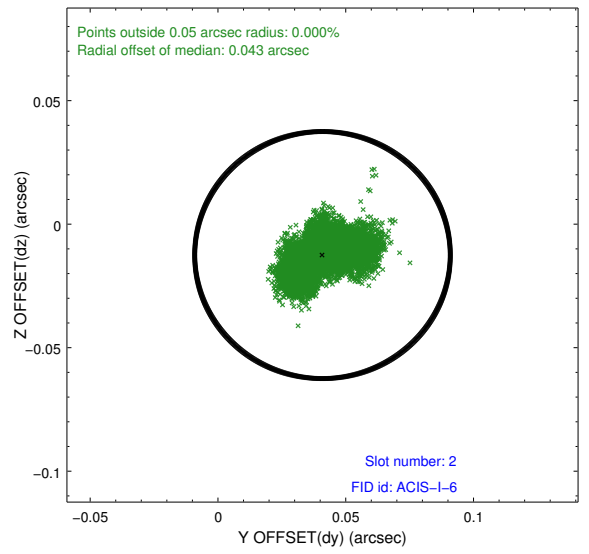
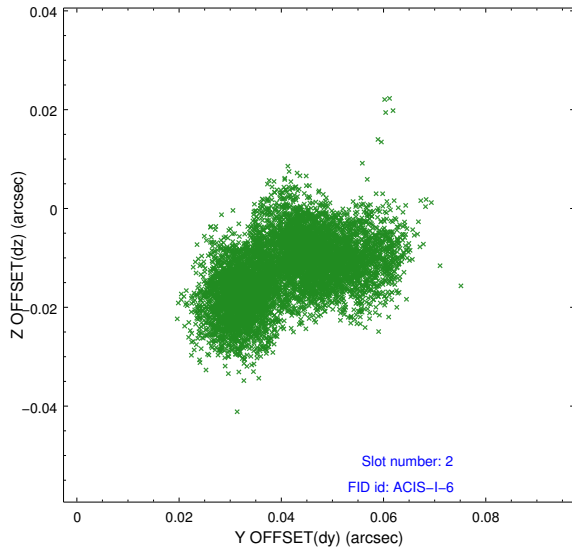
### 2.5.1 Slot 0



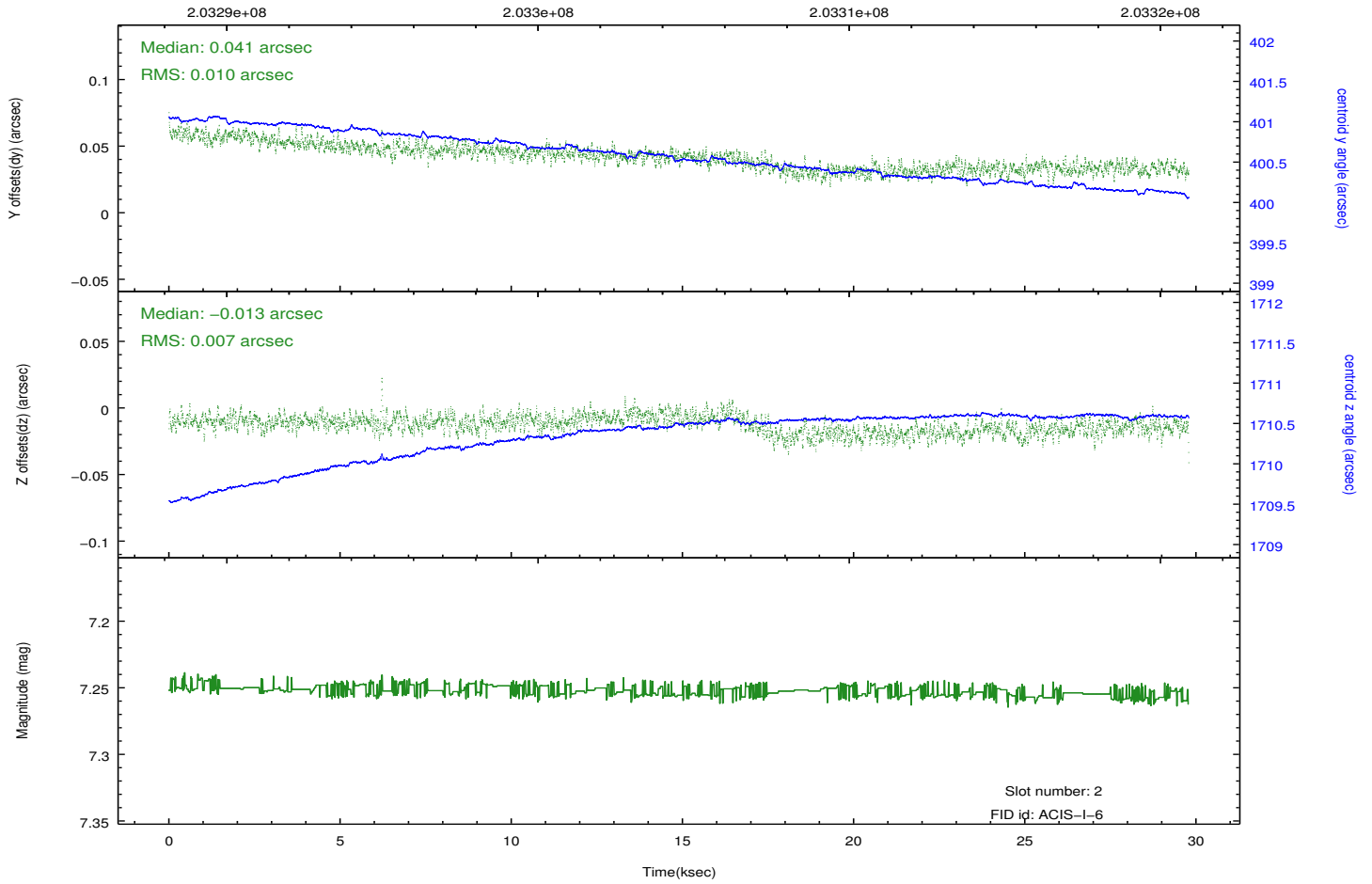
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.782

### A.2 Comments