

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9756 - L2 Version 2  
Chandra X-Ray Center

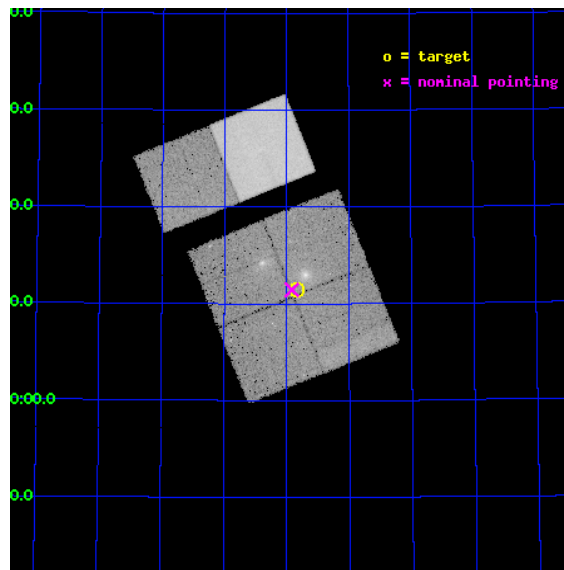
L2 Processing Date : May 4 2012

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# 1 Front

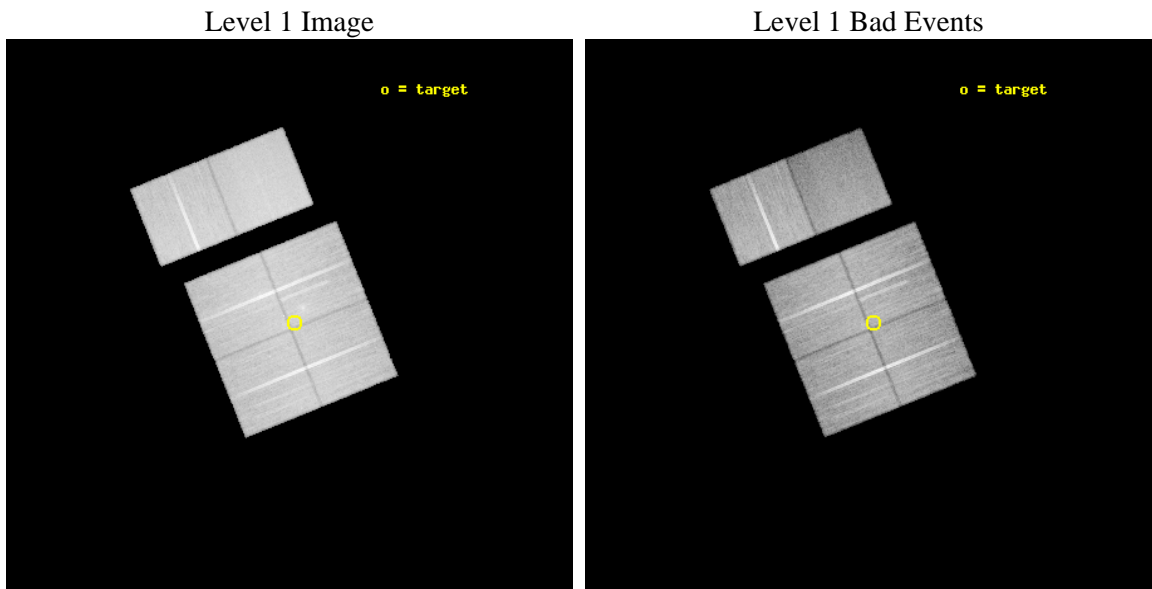
seq_num	900576	Sequence number
obs_id	9756	Observation id
title	AGN in the Cosmic Web: A Proto-Cluster at z=2.3	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	HS 1700+643	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.210833	Observer's specified target RA [deg]
dec_targ	64.191417	Observer's specified target Dec [deg]
ra_nom	255.22936785336	Nominal RA [deg]
dec_nom	64.19075394225	Nominal Dec [deg]
roll_nom	337.99200167707	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32671.958907962	Sum of GTIs [s]
livetime	32258.246891577	Livetime [s]
ontime0	32675.199878335	Sum of GTIs [s]
ontime1	32668.71801734	Sum of GTIs [s]
ontime2	32675.199878335	Sum of GTIs [s]
ontime3	32671.958907962	Sum of GTIs [s]
ontime6	32671.958907962	Sum of GTIs [s]
ontime7	32675.199878335	Sum of GTIs [s]
l2events	247454	Number of level 2 events



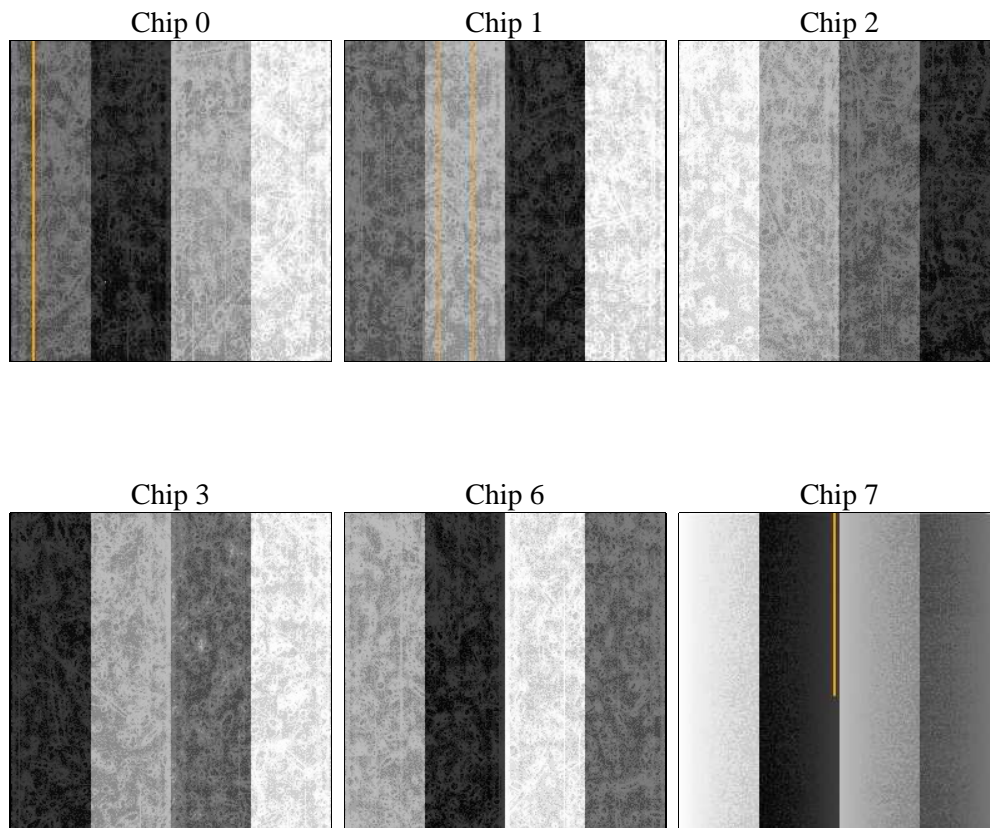
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	32671.958907962	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	32675.199878335	Sum of GTIs [s]
date	2012-05-04T14:29:00	Date and time of file creation	ontime1	32668.71801734	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	32675.199878335	Sum of GTIs [s]
			ontime3	32671.958907962	Sum of GTIs [s]
			ontime6	32671.958907962	Sum of GTIs [s]
			ontime7	32675.199878335	Sum of GTIs [s]
			l1events	1587509	Number of level 1 events

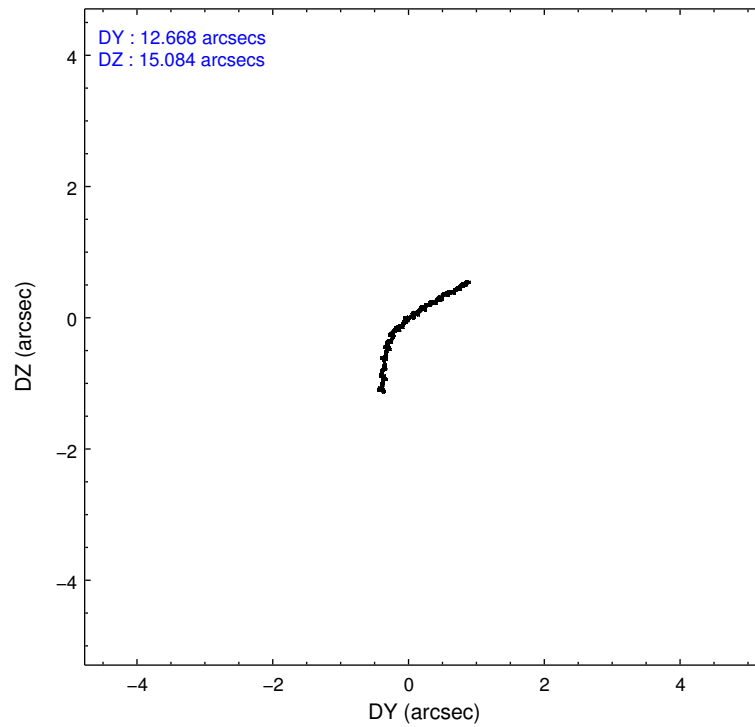
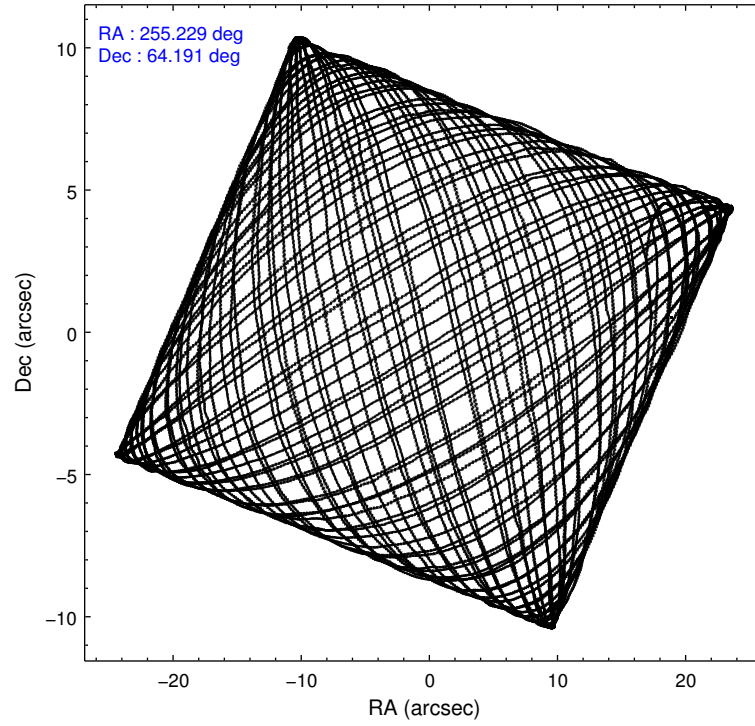
### 2.1.4 Events

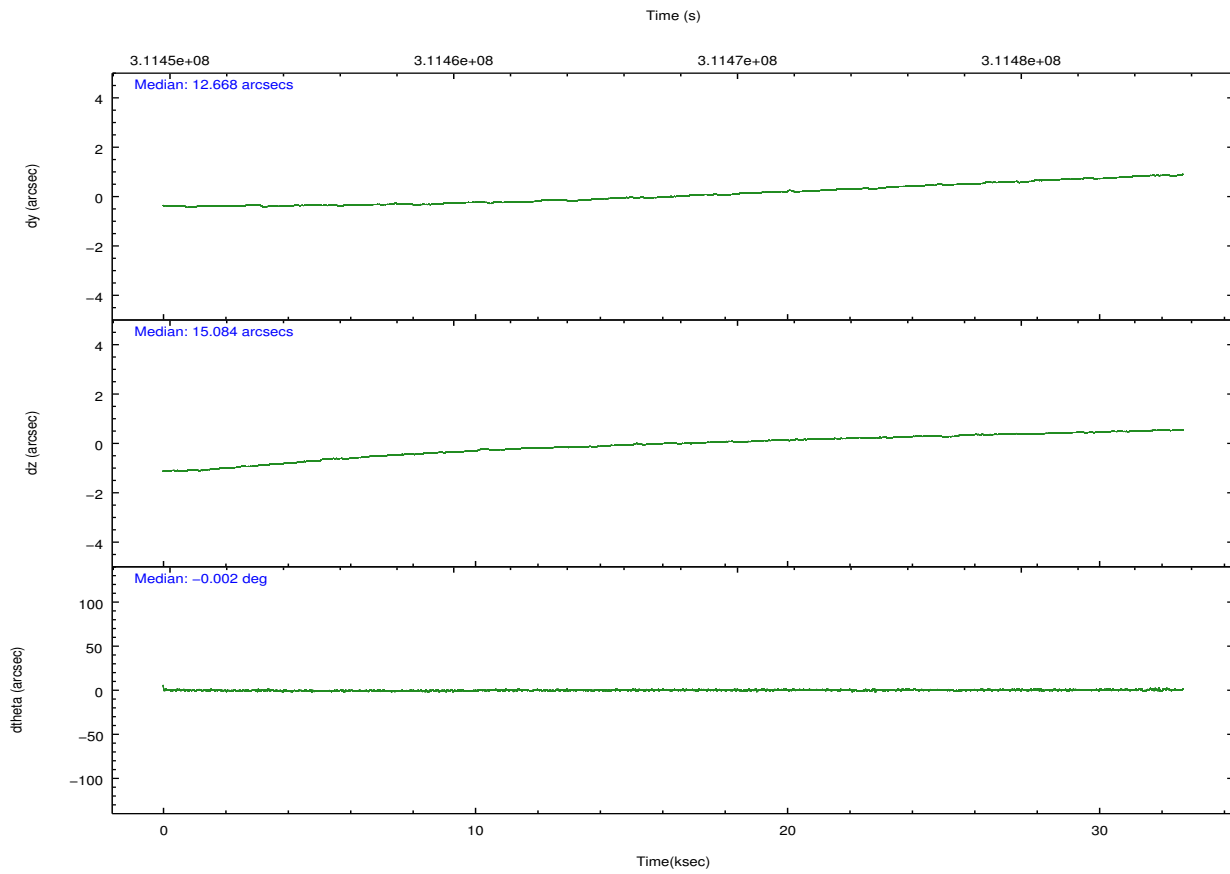
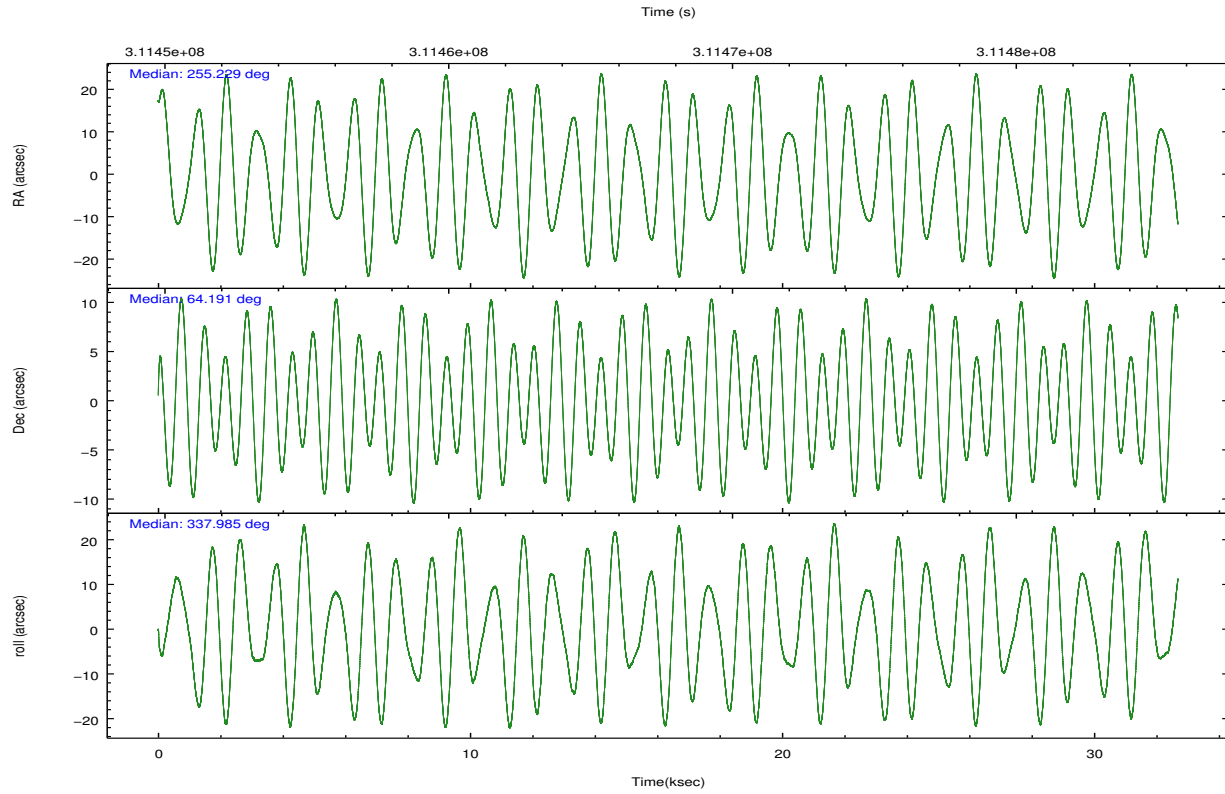
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	248173	240839	272033	263317	272708	290439	grade 0 events	9486	10878	11804	11512	9953	12664
rejected events	221612	211349	243857	235807	244684	155782		3%	4%	4%	4%	3%	4%
rejected %	89%	87%	89%	89%	89%	53%	grade 1 events	126	115	156	185	128	382
								0%	0%	0%	0%	0%	0%
							grade 2 events	6569	6668	6146	5564	6329	27041
								2%	2%	2%	2%	2%	9%
							grade 3 events	2899	3114	2775	2777	2905	12565
								1%	1%	1%	1%	1%	4%
							grade 4 events	2645	3017	2849	2810	2874	12413
								1%	1%	1%	1%	1%	4%
							grade 5 events	8906	9813	8416	10422	10861	30464
								3%	4%	3%	3%	3%	10%
							grade 6 events	5010	5872	4666	4896	6005	70240
								2%	2%	1%	1%	2%	24%
							grade 7 events	212532	201362	235221	225151	233653	124670
								85%	83%	86%	85%	85%	42%

## 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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	255.166840	255.2293678533559	CCD I2 on	Y	Y
[deg] Pointing Dec	64.186820	64.19075394224963	CCD I3 on	Y	Y
[deg] Pointing Roll	337.839603	337.9920016770715	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	Y	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	311451562.184000	311450460.66803	CCD S5 on	N	N
Observation start date	2007-11-14T18:18:17	2007-11-14T18:01:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	311484062.184000	311485067.23221	On-chip summing requested	N	N
Observation end date	2007-11-15T03:19:57	2007-11-15T03:37:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



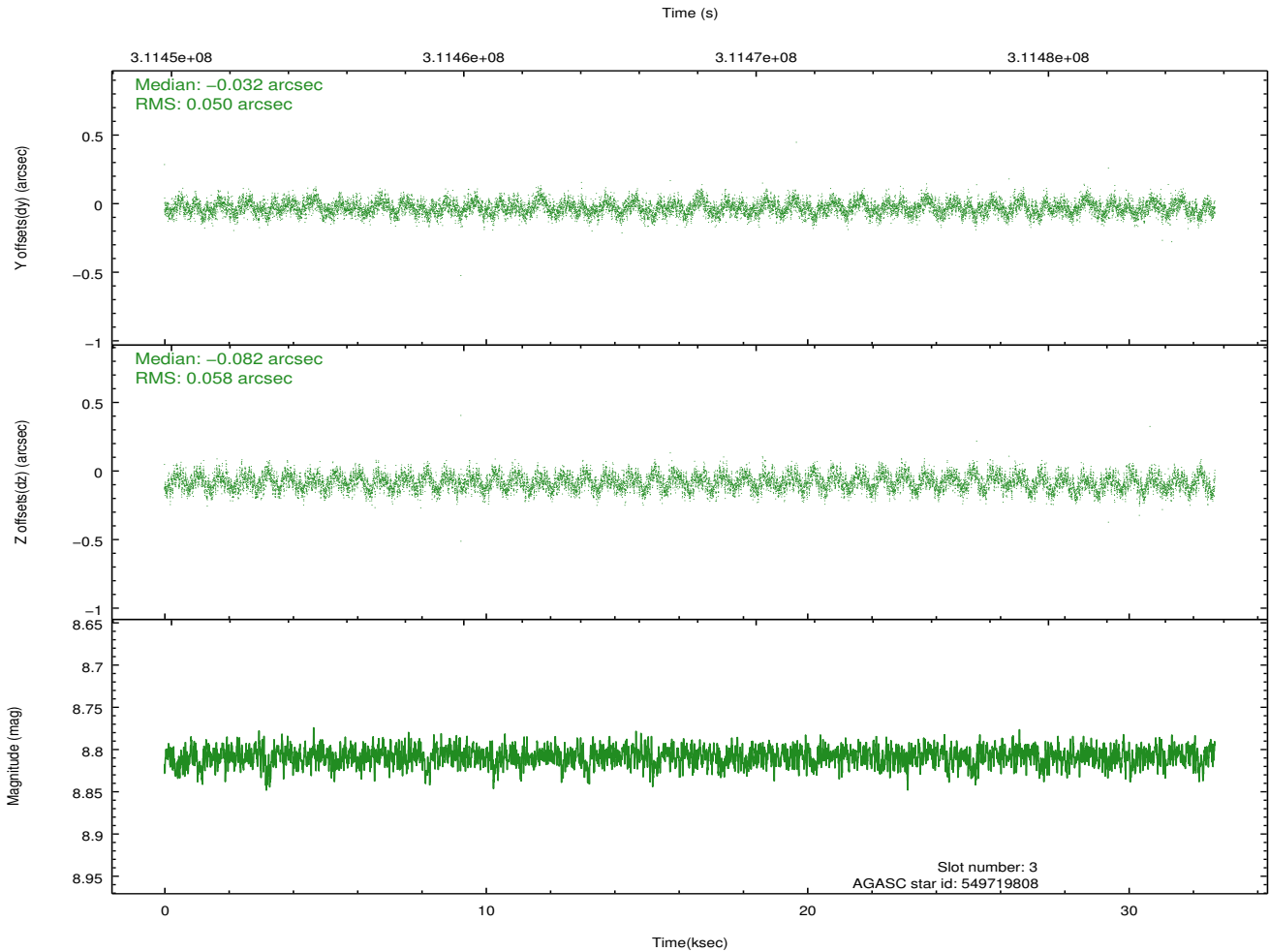
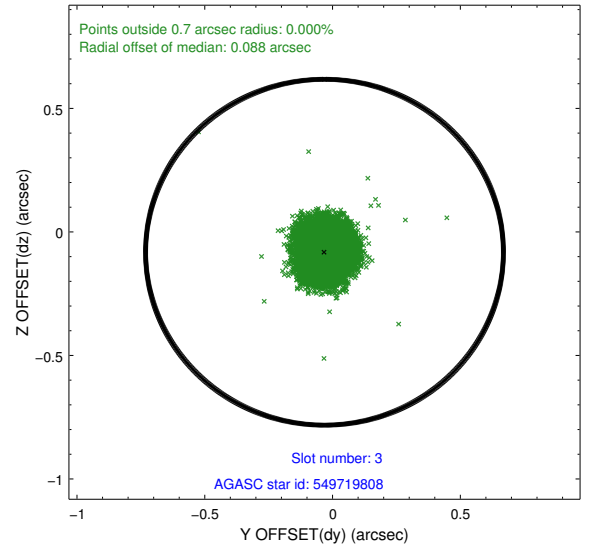
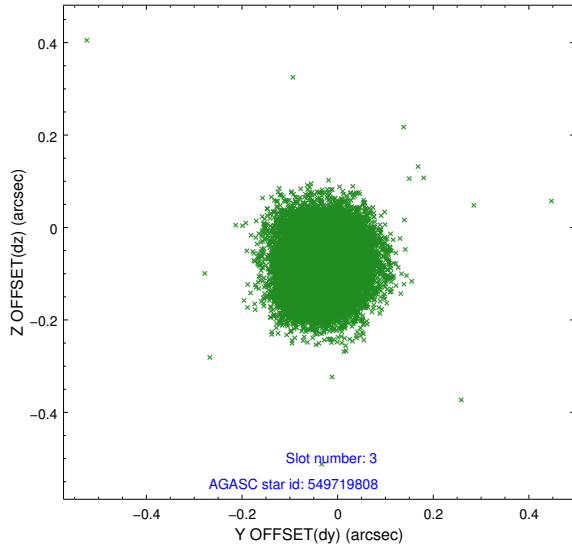


### Slot Statistics

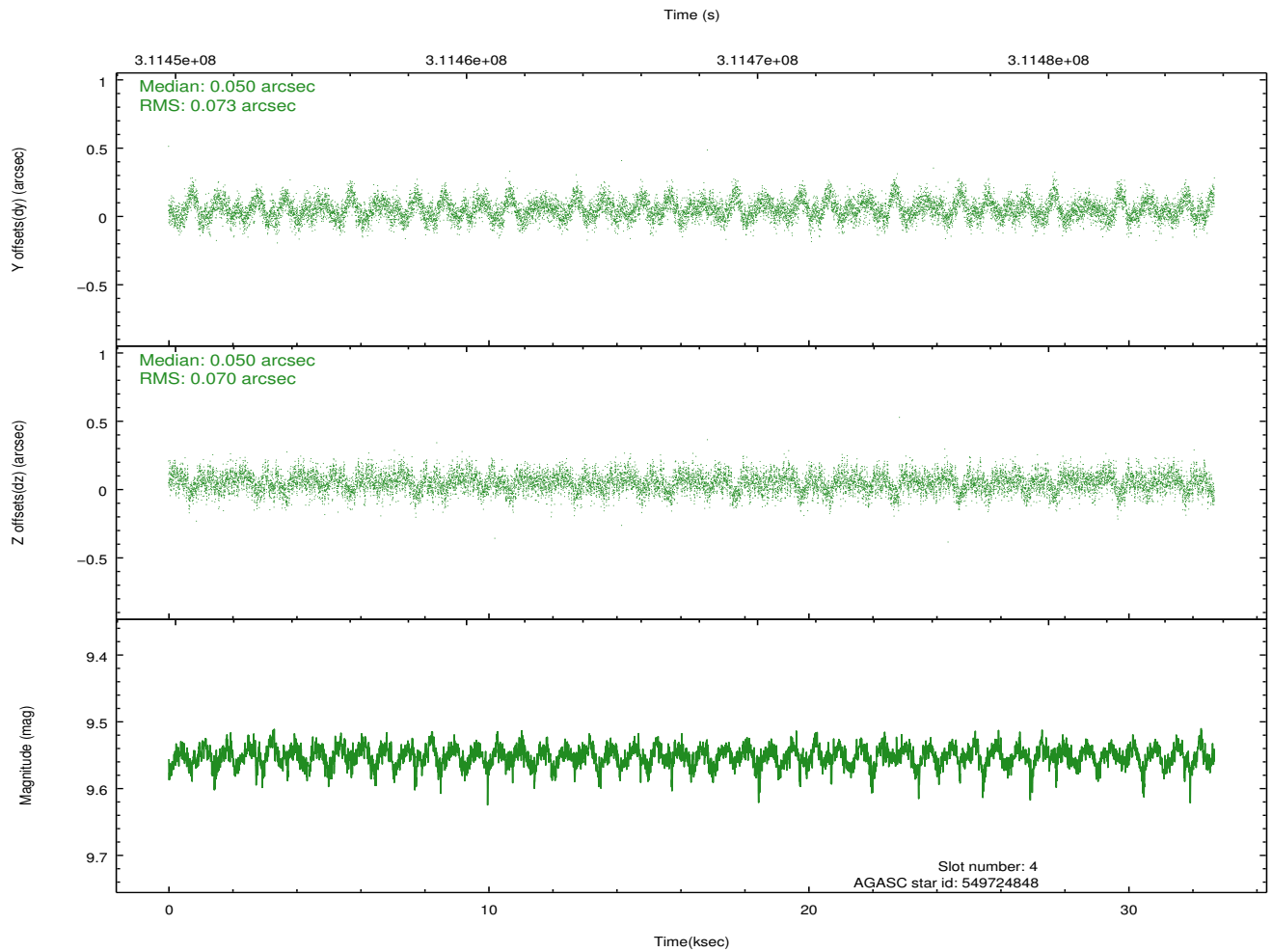
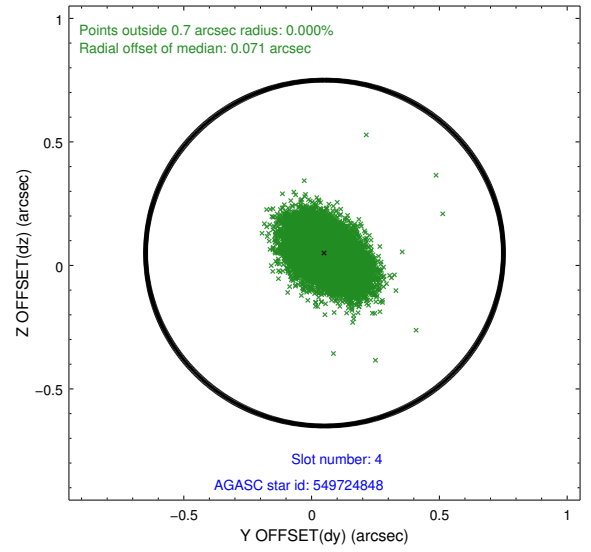
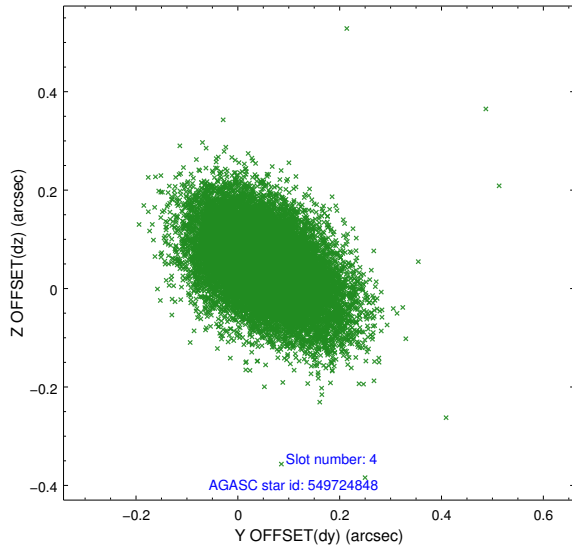
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	7971	-0.020	-0.004	0.033	0.047	0.000000	0.000000	926.74	-838.59
1	FID	ACIS-I-4	7.16	7971	0.177	0.037	0.019	0.029	0.000000	0.000000	2147.01	1061.23
2	FID	ACIS-I-5	7.22	7971	-0.255	0.039	0.017	0.026	0.000000	0.000000	-1821.42	1059.16
3	GUIDE	549719808	8.81	15935	-0.032	-0.082	0.082	0.127	255.292775	64.694097	-509.29	1764.70
4	GUIDE	549724848	9.55	15917	0.050	0.050	0.106	0.179	255.389284	63.950133	647.39	-655.40
5	GUIDE	549726784	8.97	15935	-0.014	0.033	0.110	0.181	255.680869	64.026795	967.10	-224.44
6	GUIDE	549726944	8.19	15941	-0.033	-0.195	0.088	0.144	254.598381	64.304516	-983.32	61.40
7	GUIDE	549728568	9.34	15925	0.019	0.213	0.093	0.149	253.813006	64.122814	-1891.00	-994.53

## 2.4 Star Slots

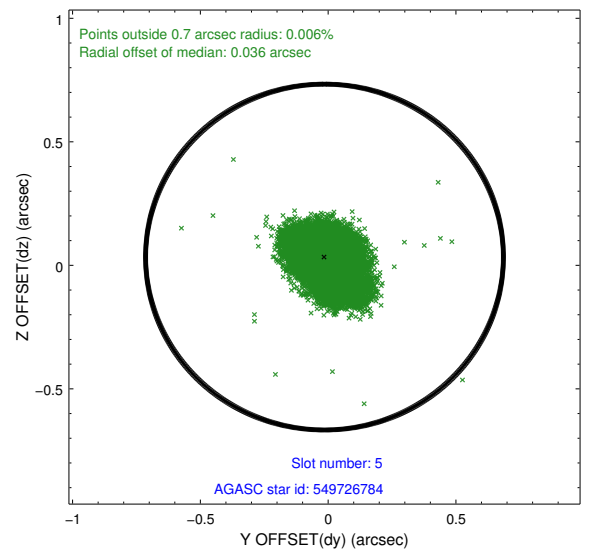
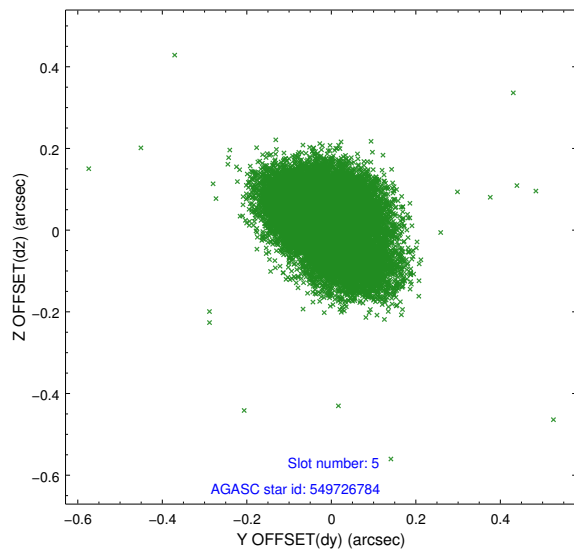
### 2.4.1 Slot 3



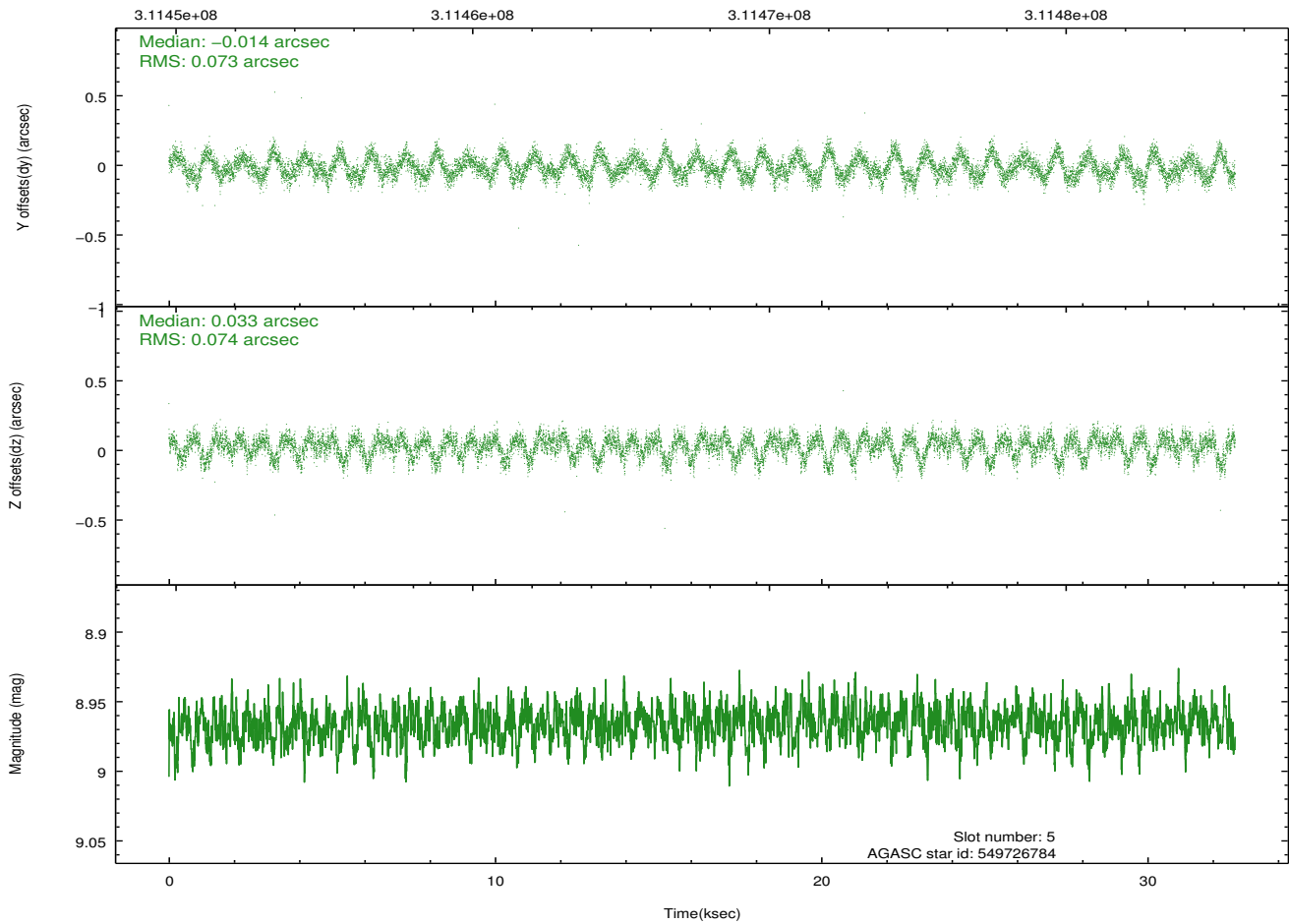
### 2.4.2 Slot 4



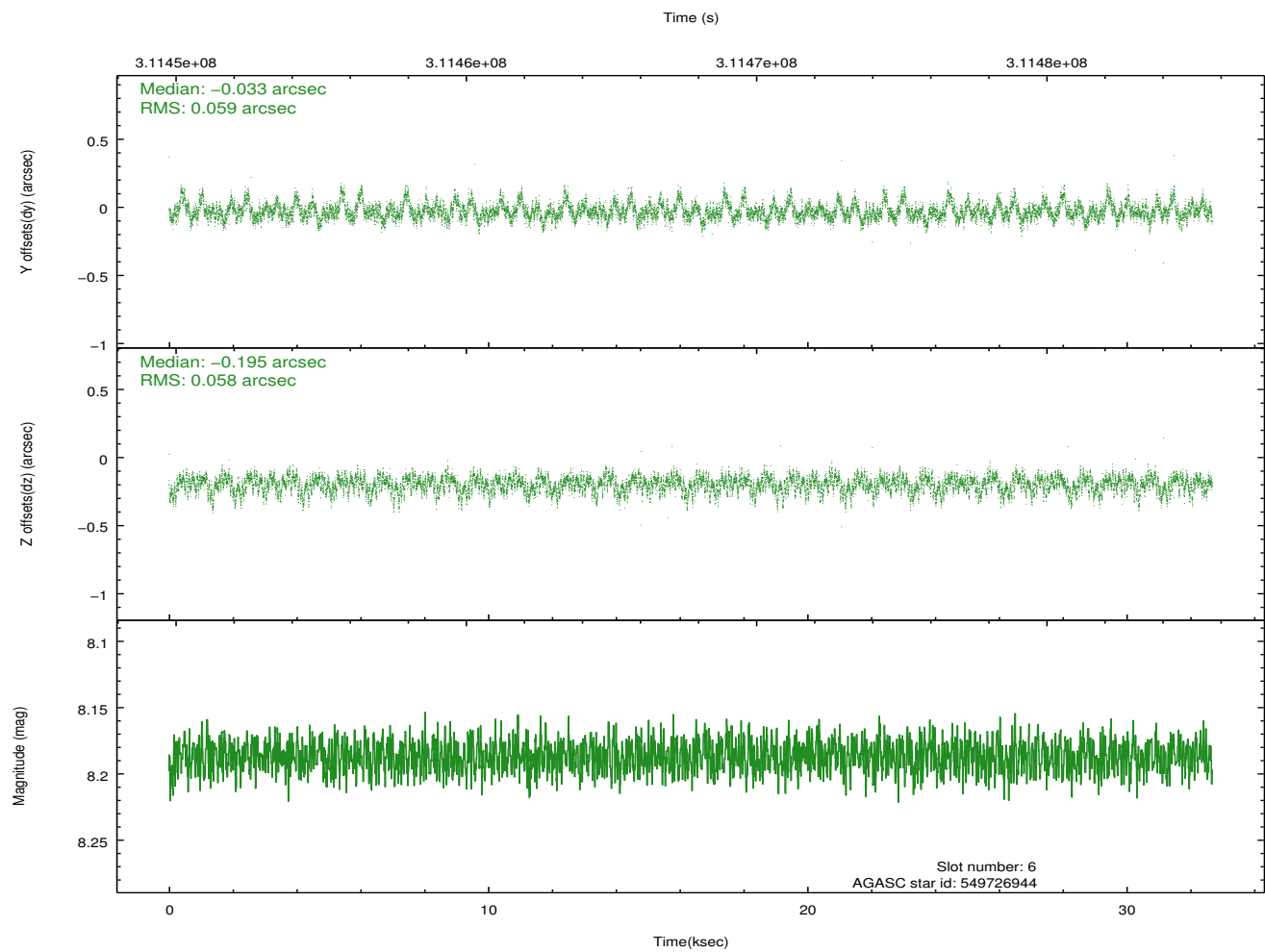
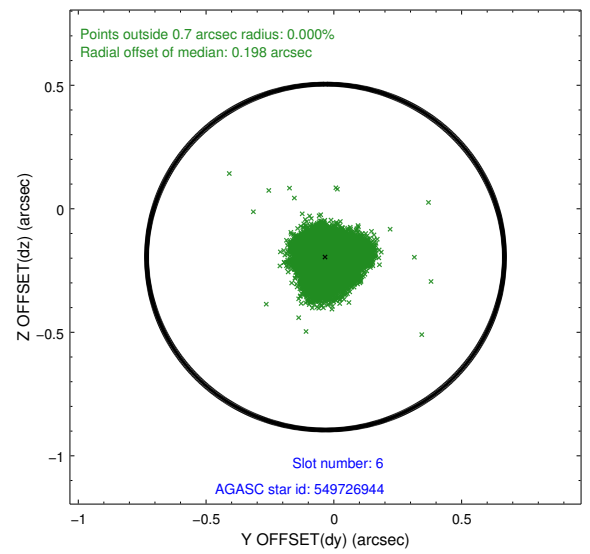
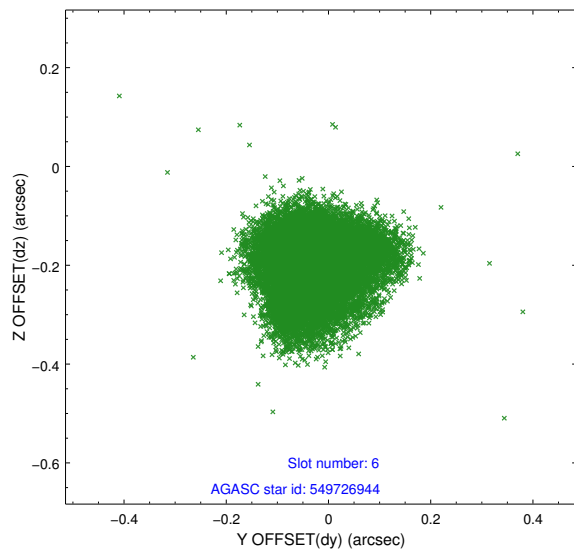
### 2.4.3 Slot 5



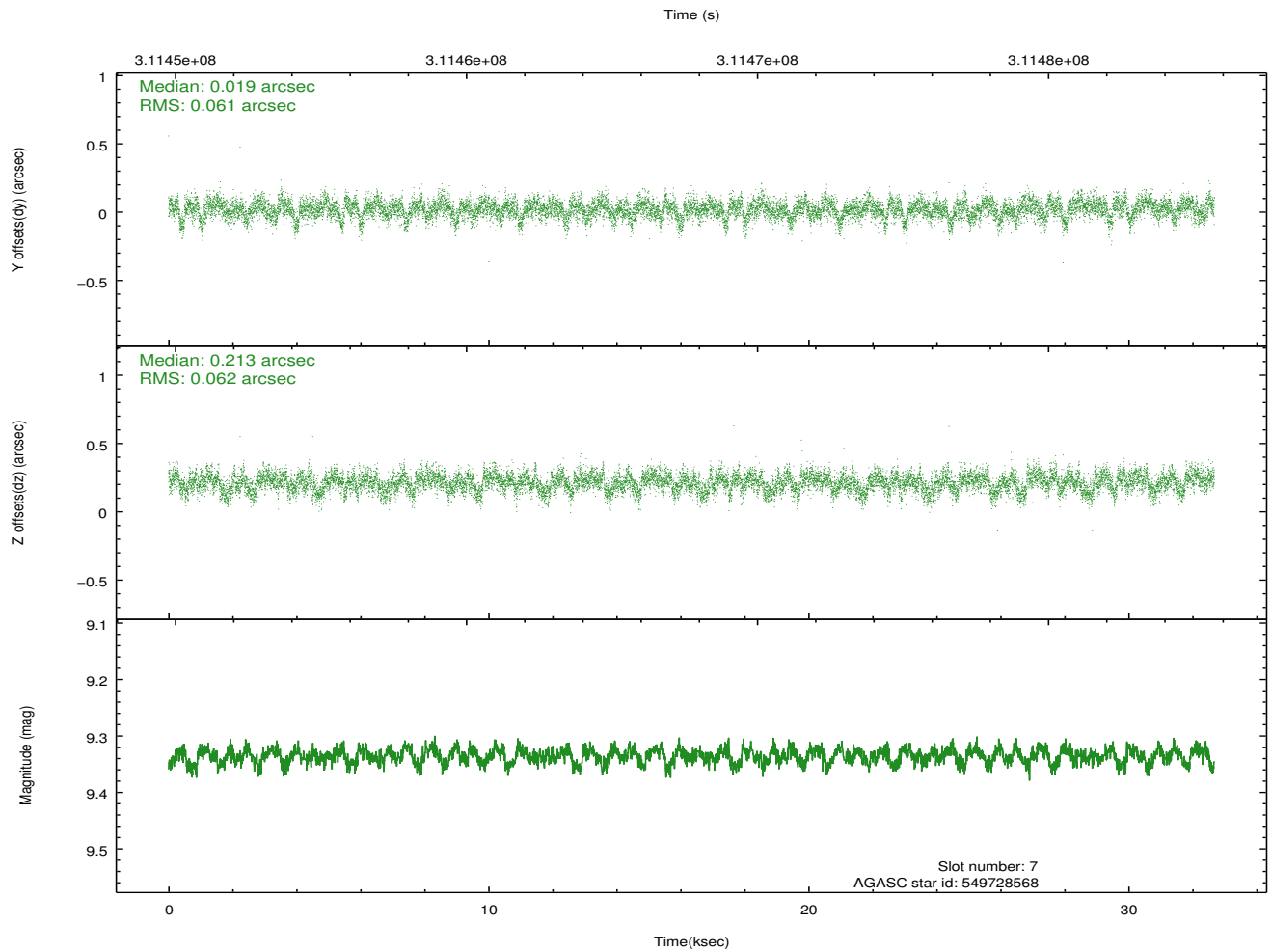
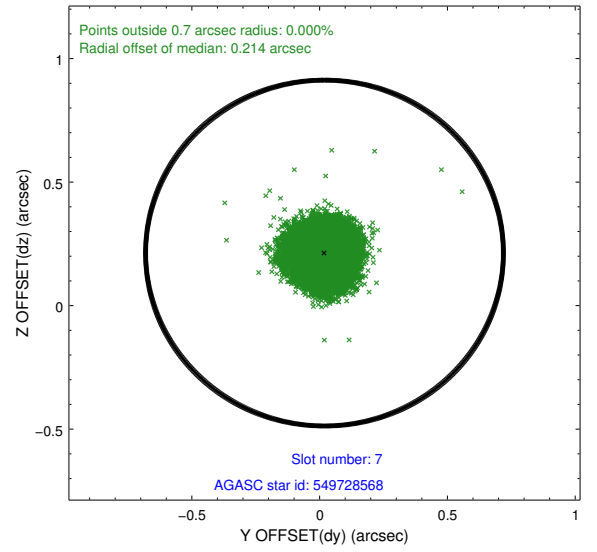
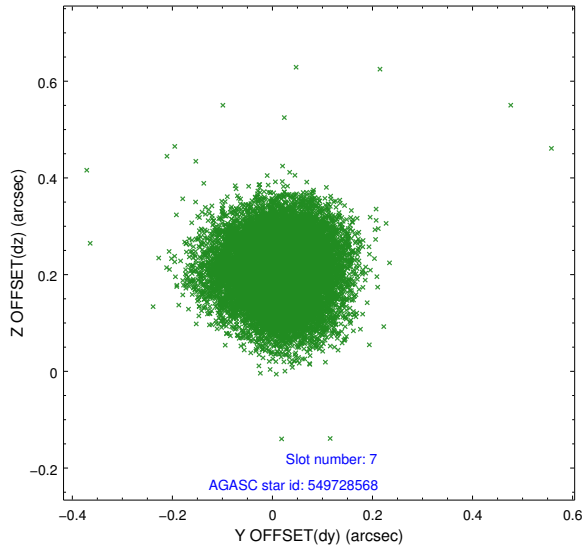
Time (s)



## 2.4.4 Slot 6

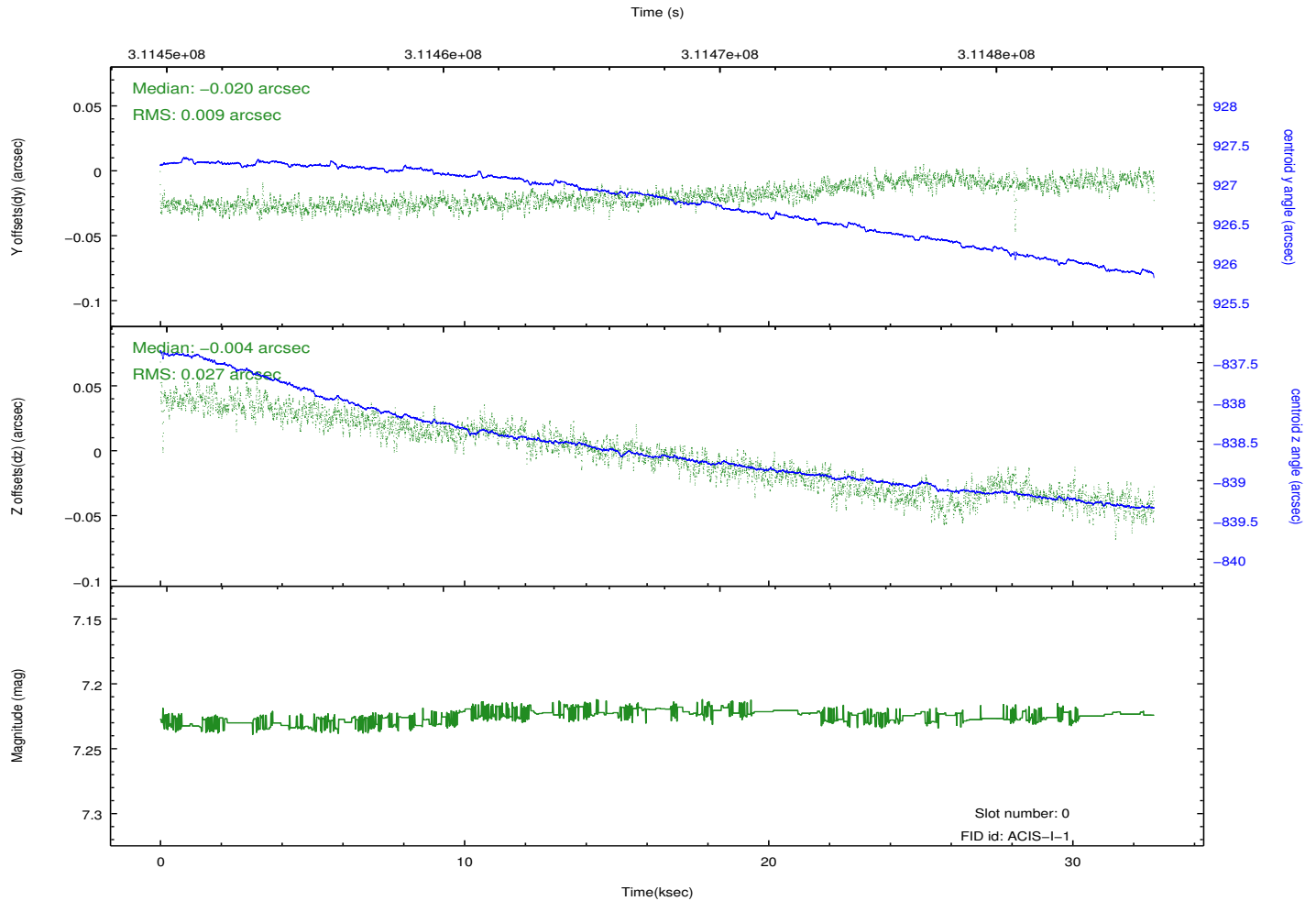
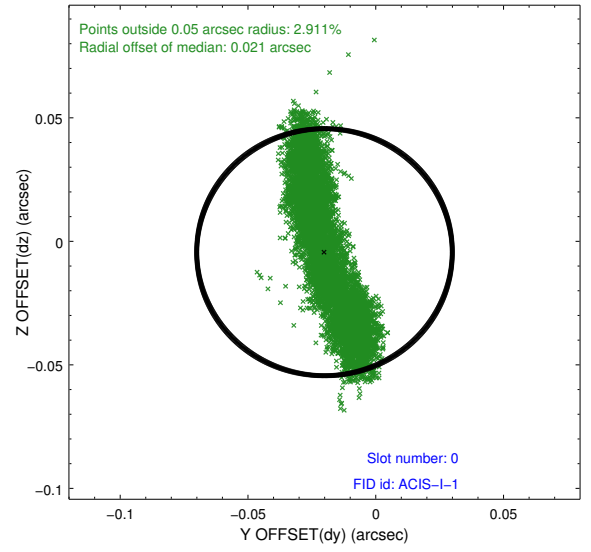
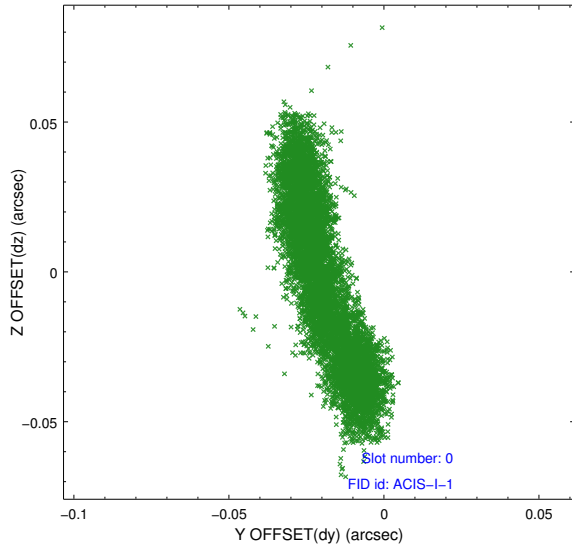


### 2.4.5 Slot 7

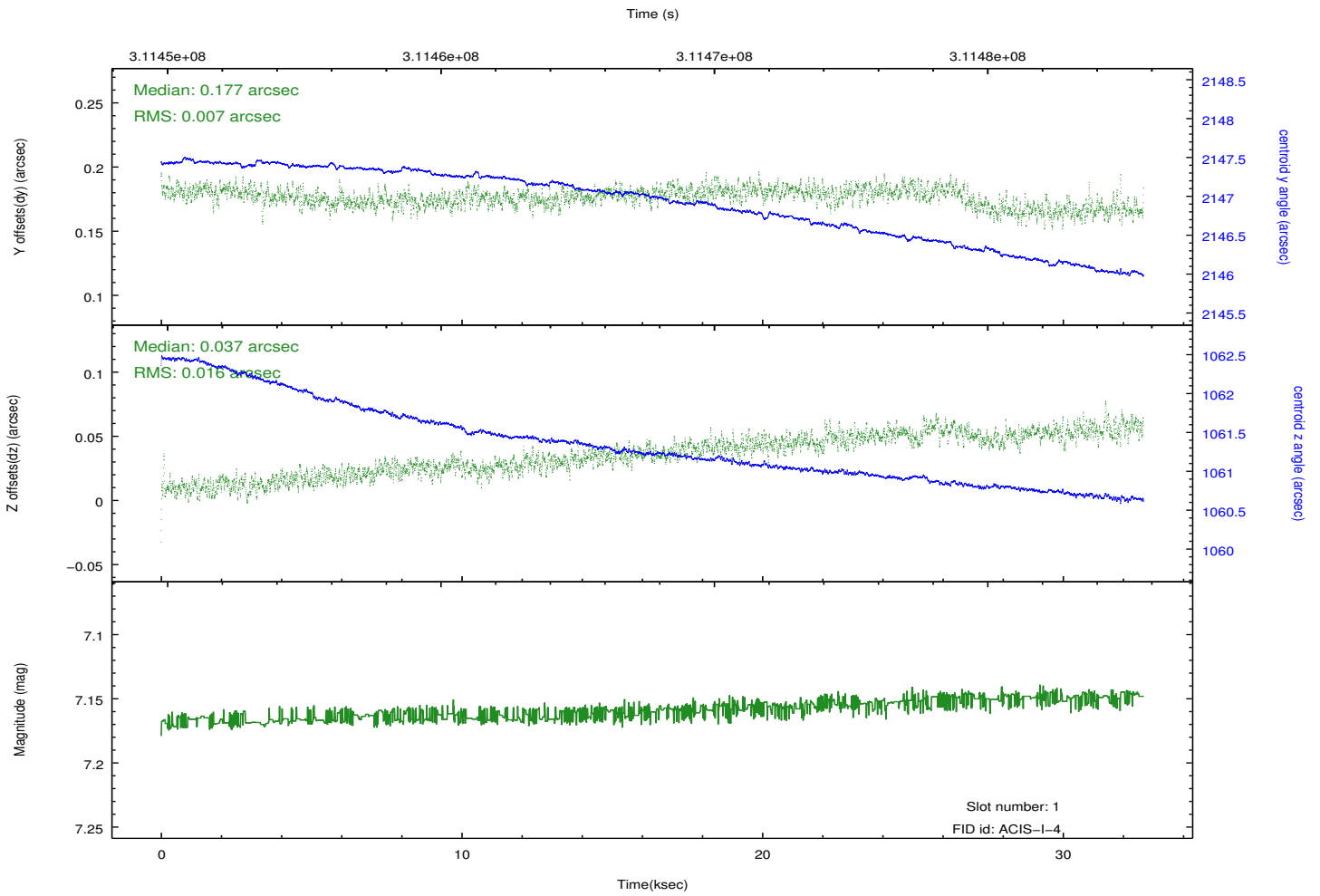
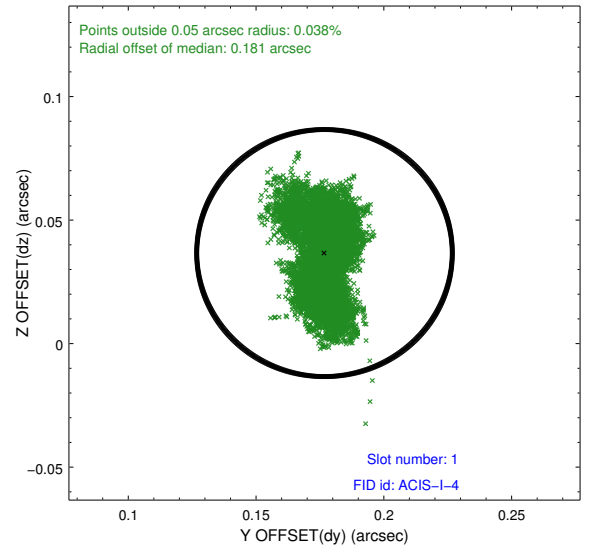
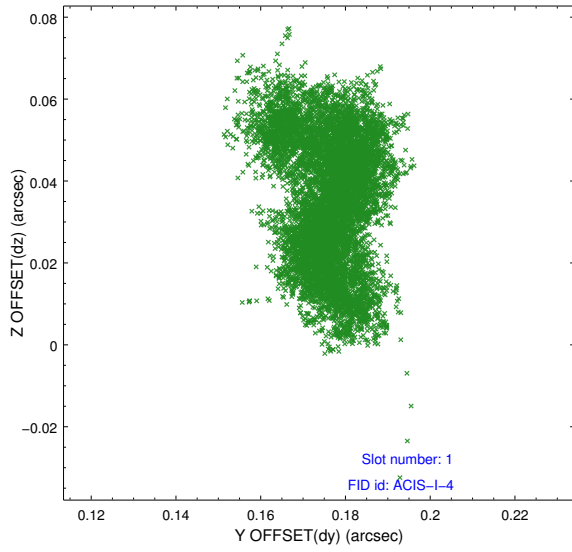


## 2.5 FID Slots

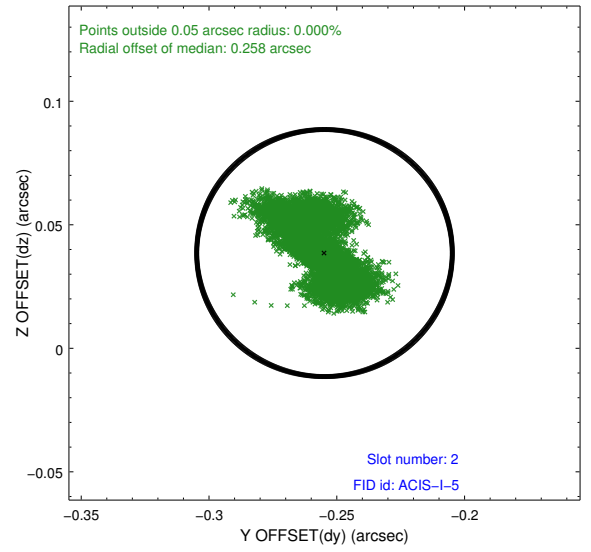
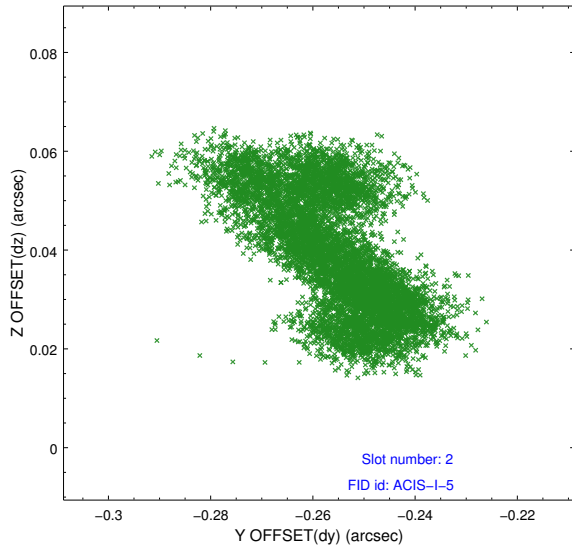
### 2.5.1 Slot 0



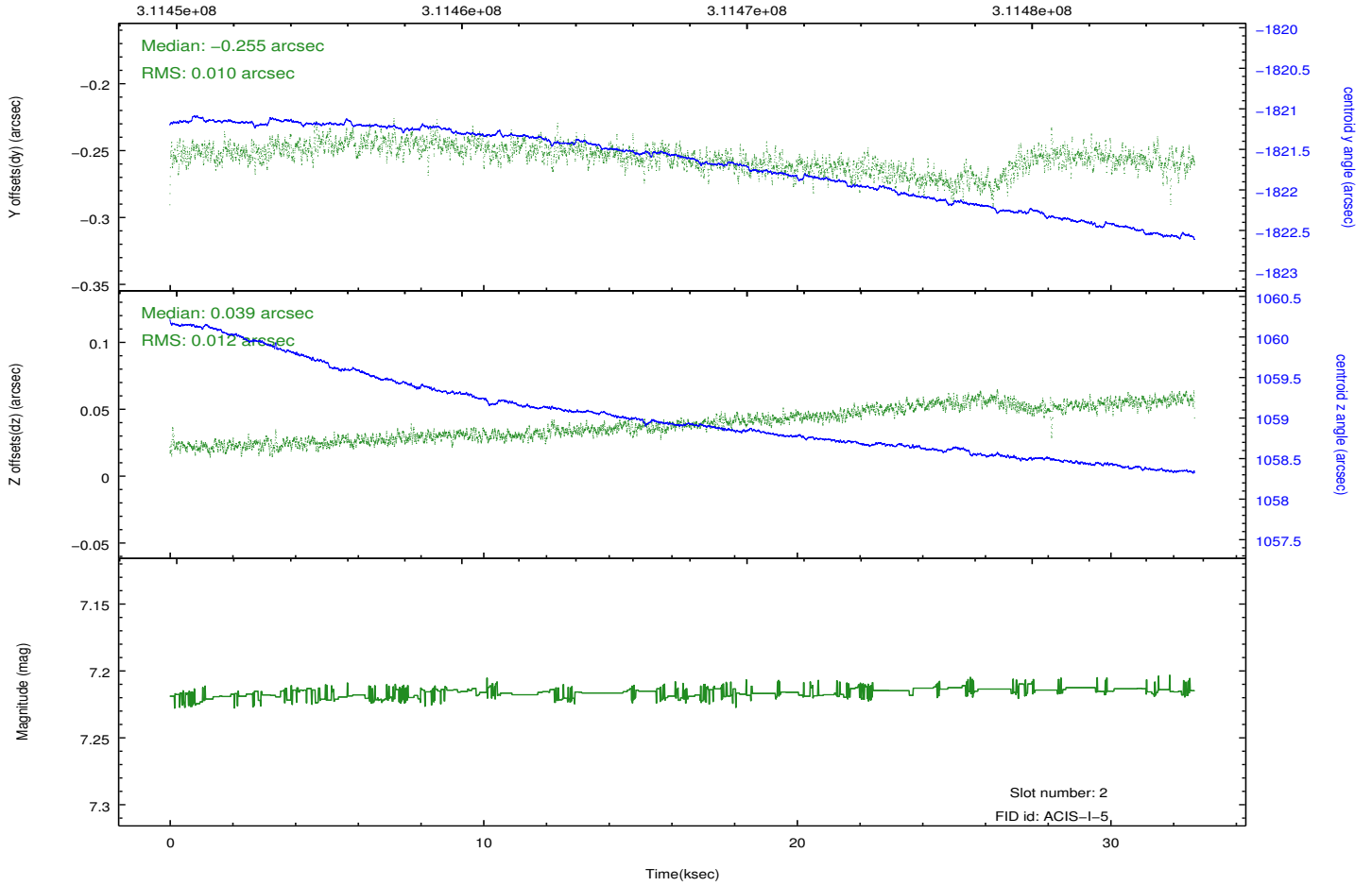
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



## **A Summary**

### **A.1 Status**

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.6719589

### **A.2 Comments**