

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8032 - L2 Version 2  
Chandra X-Ray Center

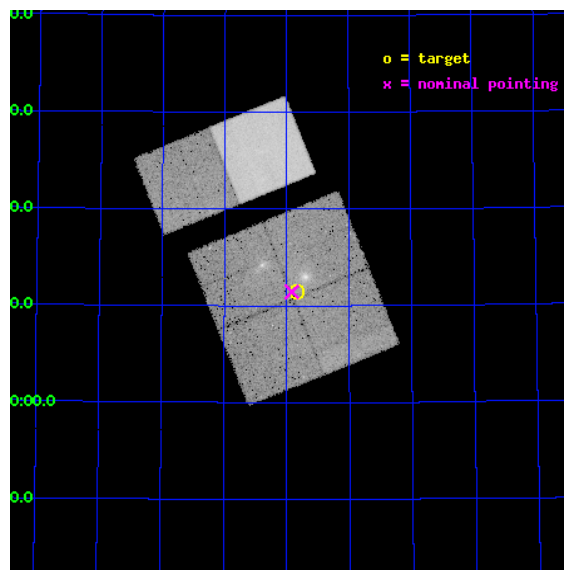
L2 Processing Date : May 4 2012

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# 1 Front

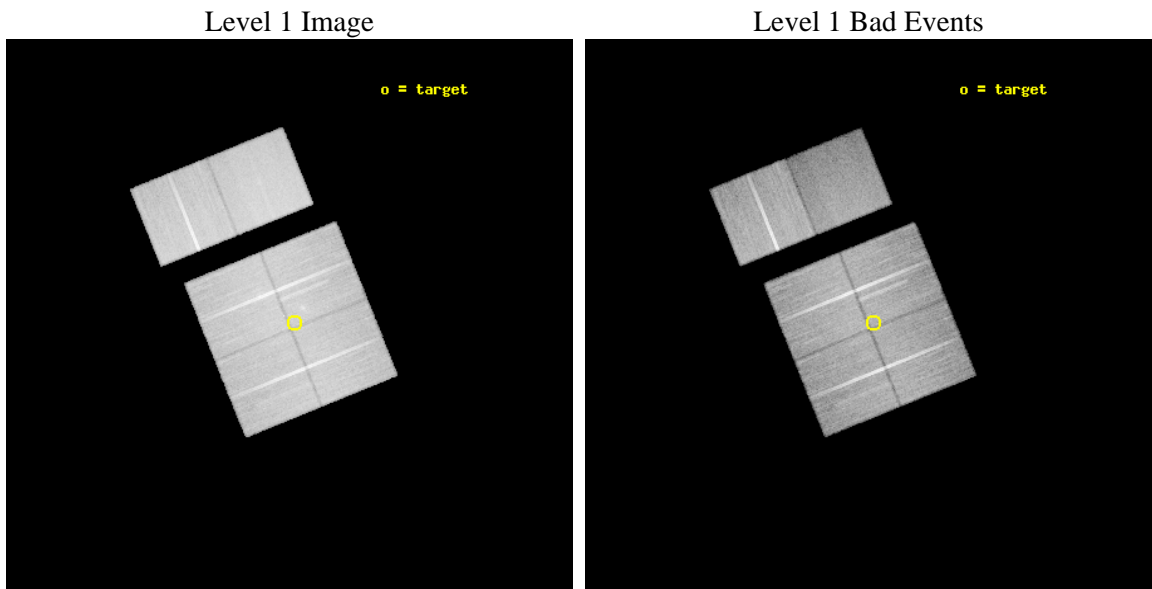
seq_num	900576	Sequence number
obs_id	8032	Observation id
title	AGN in the Cosmic Web: A Proto-Cluster at z=2.3	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	HS 1700+643	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.210833	Observer's specified target RA [deg]
dec_targ	64.191417	Observer's specified target Dec [deg]
ra_nom	255.22932656016	Nominal RA [deg]
dec_nom	64.190747983277	Nominal Dec [deg]
roll_nom	337.99203629938	Nominal Roll [deg]
revision	2	Processing version of data
ontime	31393.624295413	Sum of GTIs [s]
livetime	30996.099321614	Livetime [s]
ontime0	31396.742165685	Sum of GTIs [s]
ontime1	31396.783205688	Sum of GTIs [s]
ontime2	31393.583265424	Sum of GTIs [s]
ontime3	31393.624295413	Sum of GTIs [s]
ontime6	31393.706395388	Sum of GTIs [s]
ontime7	31396.906325698	Sum of GTIs [s]
l2events	236688	Number of level 2 events



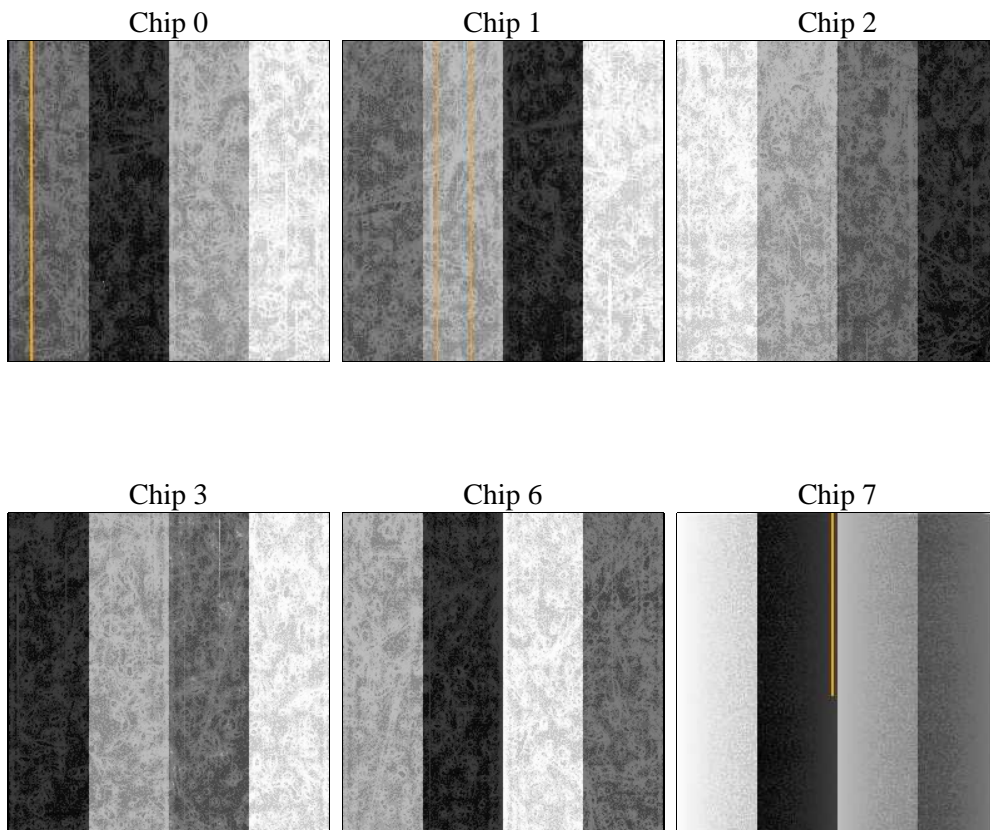
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	31393.624295413	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	31396.742165685	Sum of GTIs [s]
date	2012-05-04T14:17:57	Date and time of file creation	ontime1	31396.783205688	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	31393.583265424	Sum of GTIs [s]
			ontime3	31393.624295413	Sum of GTIs [s]
			ontime6	31393.706395388	Sum of GTIs [s]
			ontime7	31396.906325698	Sum of GTIs [s]
			l1events	1544697	Number of level 1 events

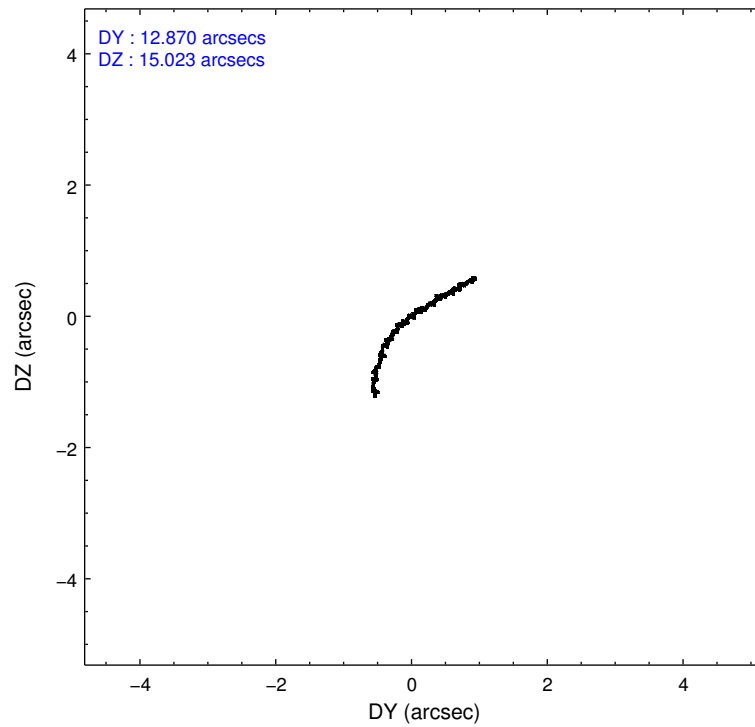
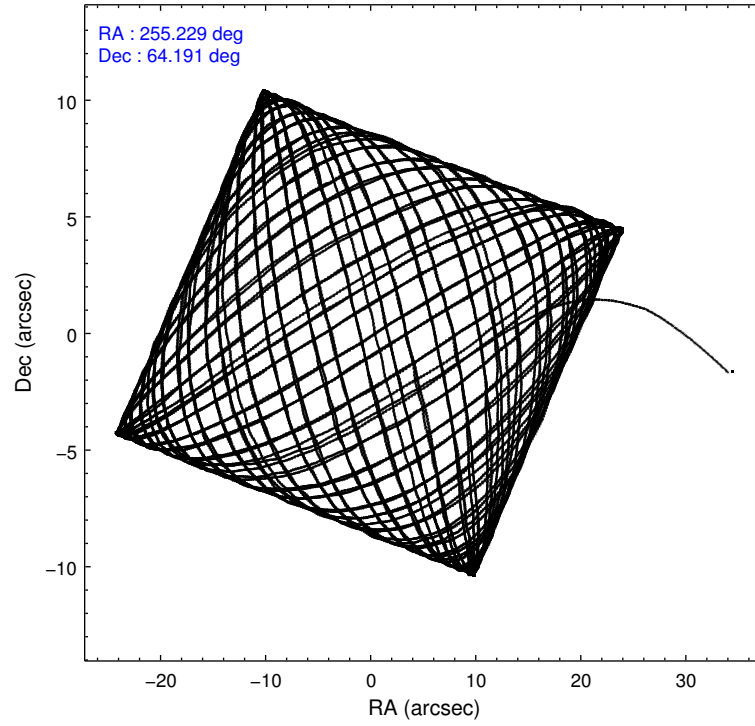
### 2.1.4 Events

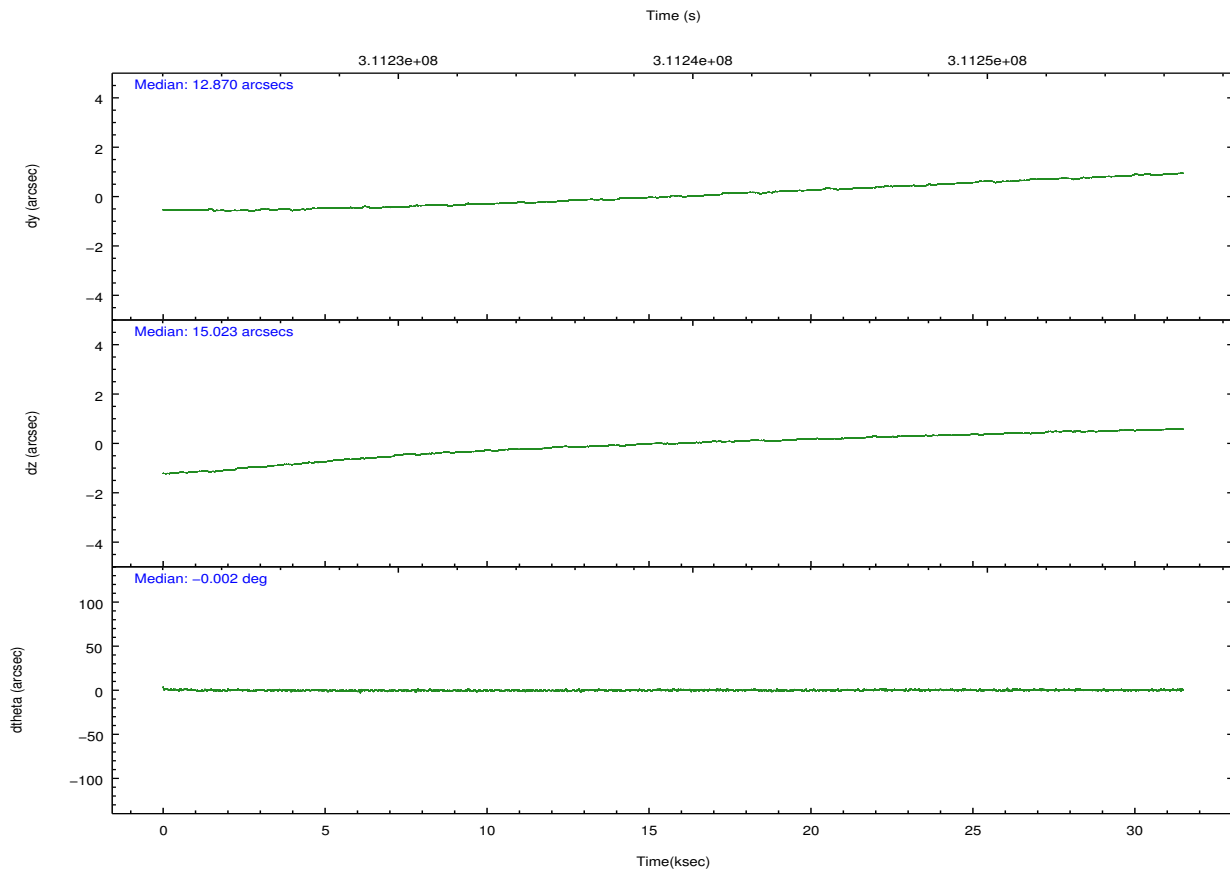
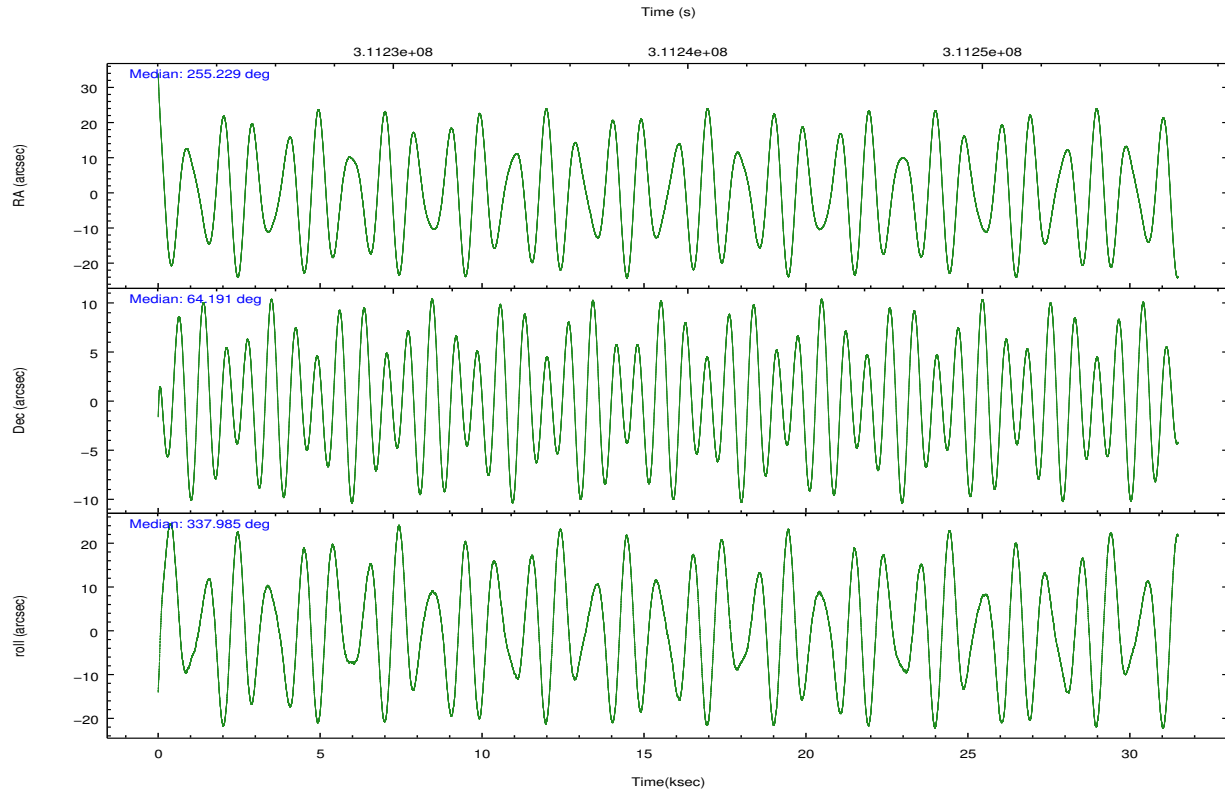
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	236964	237055	269277	251366	266855	283180	grade 0 events	8607	10295	10858	10663	9161	12031
rejected events	212022	208611	242288	225192	240180	153504		3%	4%	4%	4%	3%	4%
rejected %	89%	88%	89%	89%	90%	54%	grade 1 events	115	133	184	146	130	358
								0%	0%	0%	0%	0%	0%
							grade 2 events	6069	6339	6068	5337	6040	26370
								2%	2%	2%	2%	2%	9%
							grade 3 events	2850	3057	2727	2811	2909	11910
								1%	1%	1%	1%	1%	4%
							grade 4 events	2602	2977	2811	2629	2726	11792
								1%	1%	1%	1%	1%	4%
							grade 5 events	8646	9659	8145	9957	10448	29894
								3%	4%	3%	3%	3%	10%
							grade 6 events	4822	5781	4533	4746	5841	67599
								2%	2%	1%	1%	2%	23%
							grade 7 events	203253	198814	233951	215077	229600	123226
								85%	83%	86%	85%	86%	43%

## 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	255.2293265601564	CCD I2 on	Y	Y
[deg] Pointing Dec	64.186820	64.19074798327669	CCD I3 on	Y	Y
[deg] Pointing Roll	337.839603	337.9920362993802	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)	311223768.184000	311222733.84454	CCD S5 on	N	N
Observation start date	2007-11-12T03:01:43	2007-11-12T02:45:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	311255068.184000	311255658.89613	On-chip summing requested	N	N
Observation end date	2007-11-12T11:43:23	2007-11-12T11:54:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



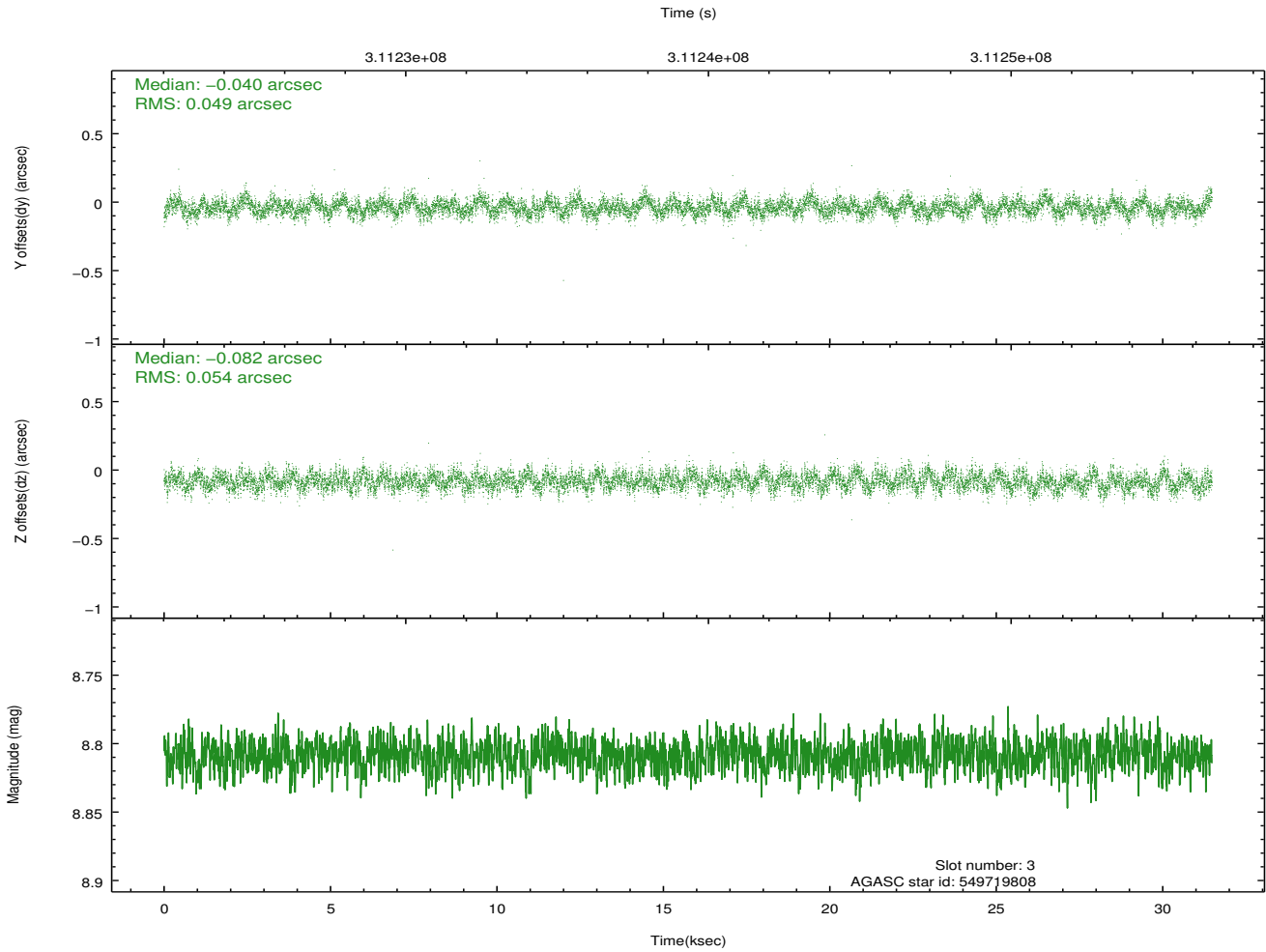
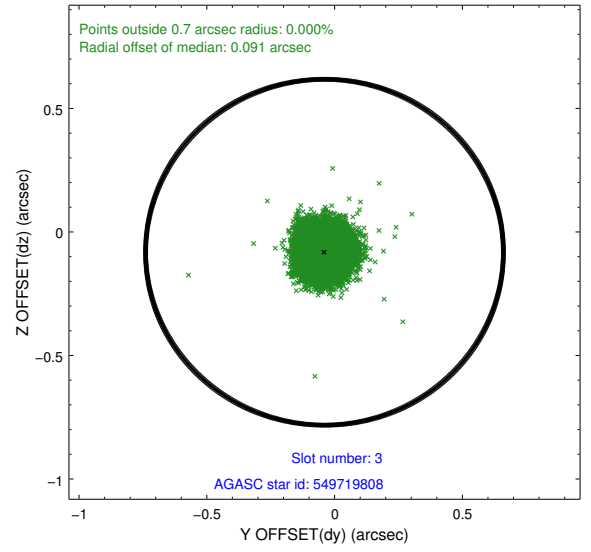
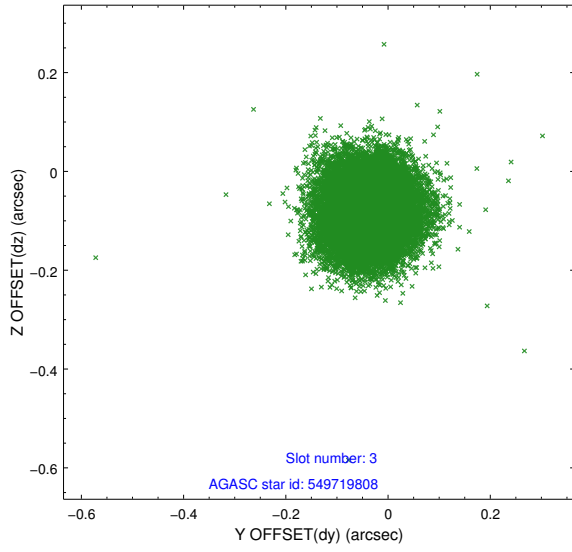


### Slot Statistics

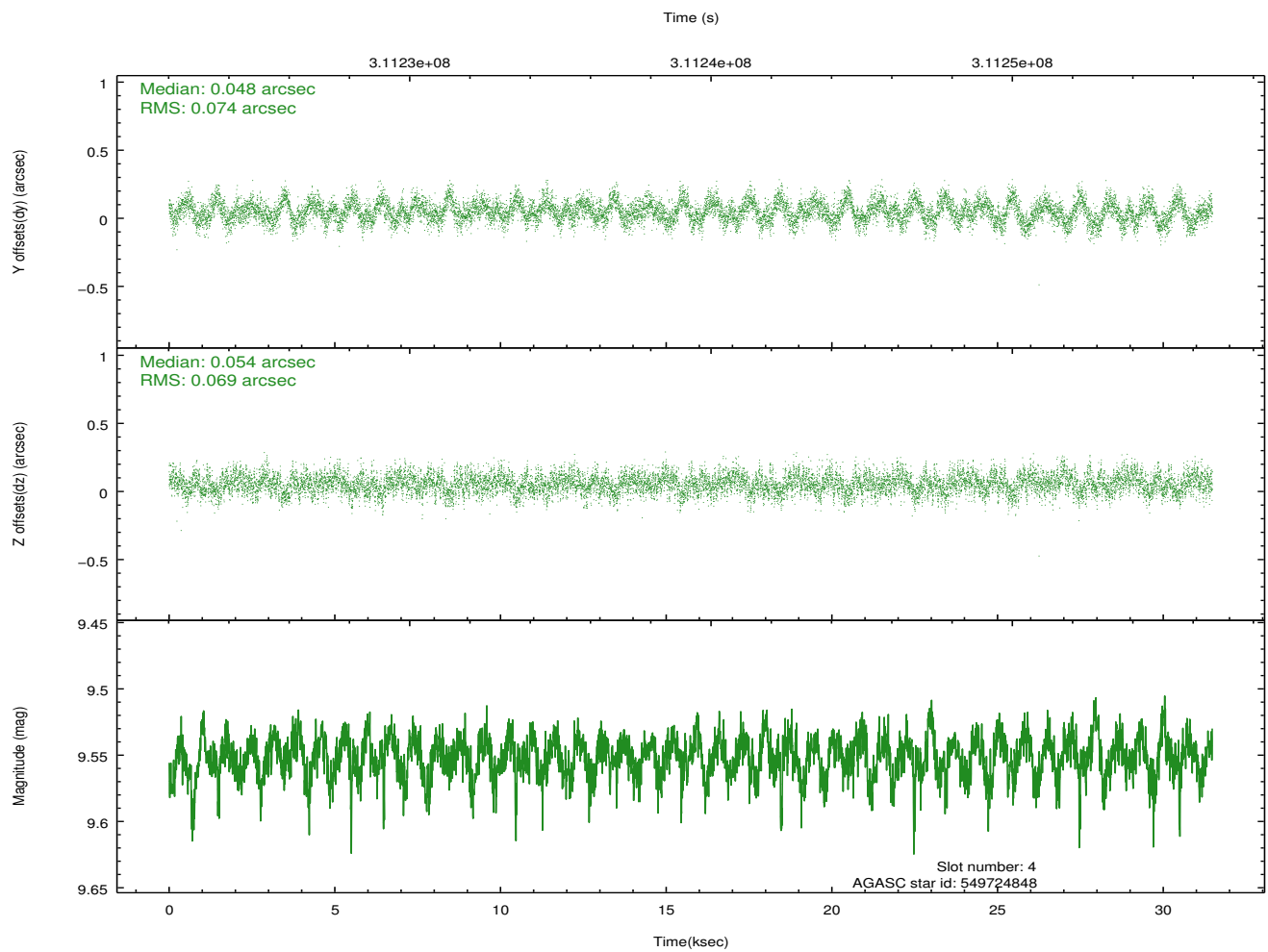
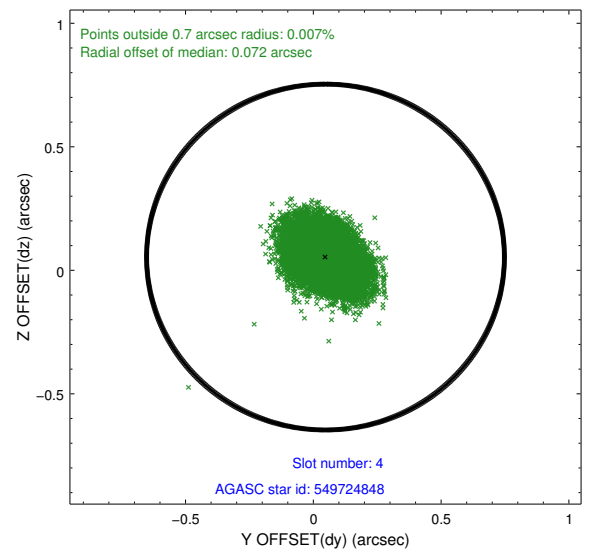
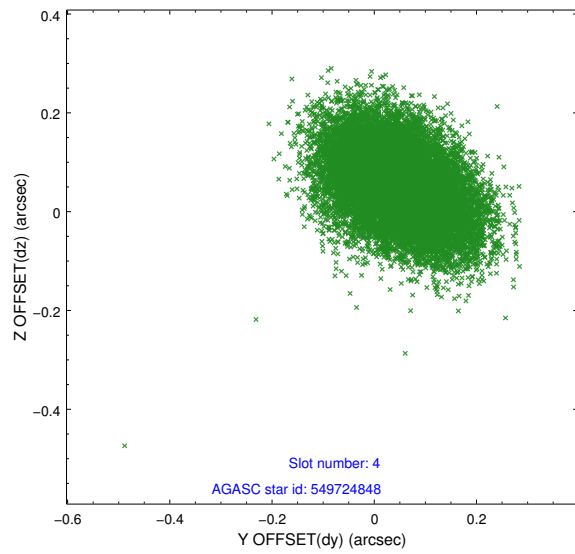
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	7679	-0.015	-0.005	0.036	0.051	0.000000	0.000000	926.57	-838.52
1	FID	ACIS-I-4	7.16	7677	0.175	0.034	0.023	0.032	0.000000	0.000000	2146.84	1061.29
2	FID	ACIS-I-5	7.22	7678	-0.255	0.042	0.018	0.024	0.000000	0.000000	-1821.59	1059.23
3	GUIDE	549719808	8.81	15349	-0.040	-0.082	0.078	0.123	255.292775	64.694097	-509.22	1764.75
4	GUIDE	549724848	9.55	15338	0.048	0.054	0.107	0.176	255.389284	63.950133	647.44	-655.35
5	GUIDE	549726784	8.97	15346	0.009	0.017	0.093	0.151	255.680869	64.026795	967.18	-224.41
6	GUIDE	549726944	8.19	15352	-0.035	-0.197	0.088	0.142	254.598381	64.304516	-983.26	61.45
7	GUIDE	549728568	9.33	15343	0.017	0.217	0.098	0.157	253.813006	64.122814	-1890.95	-994.47

## 2.4 Star Slots

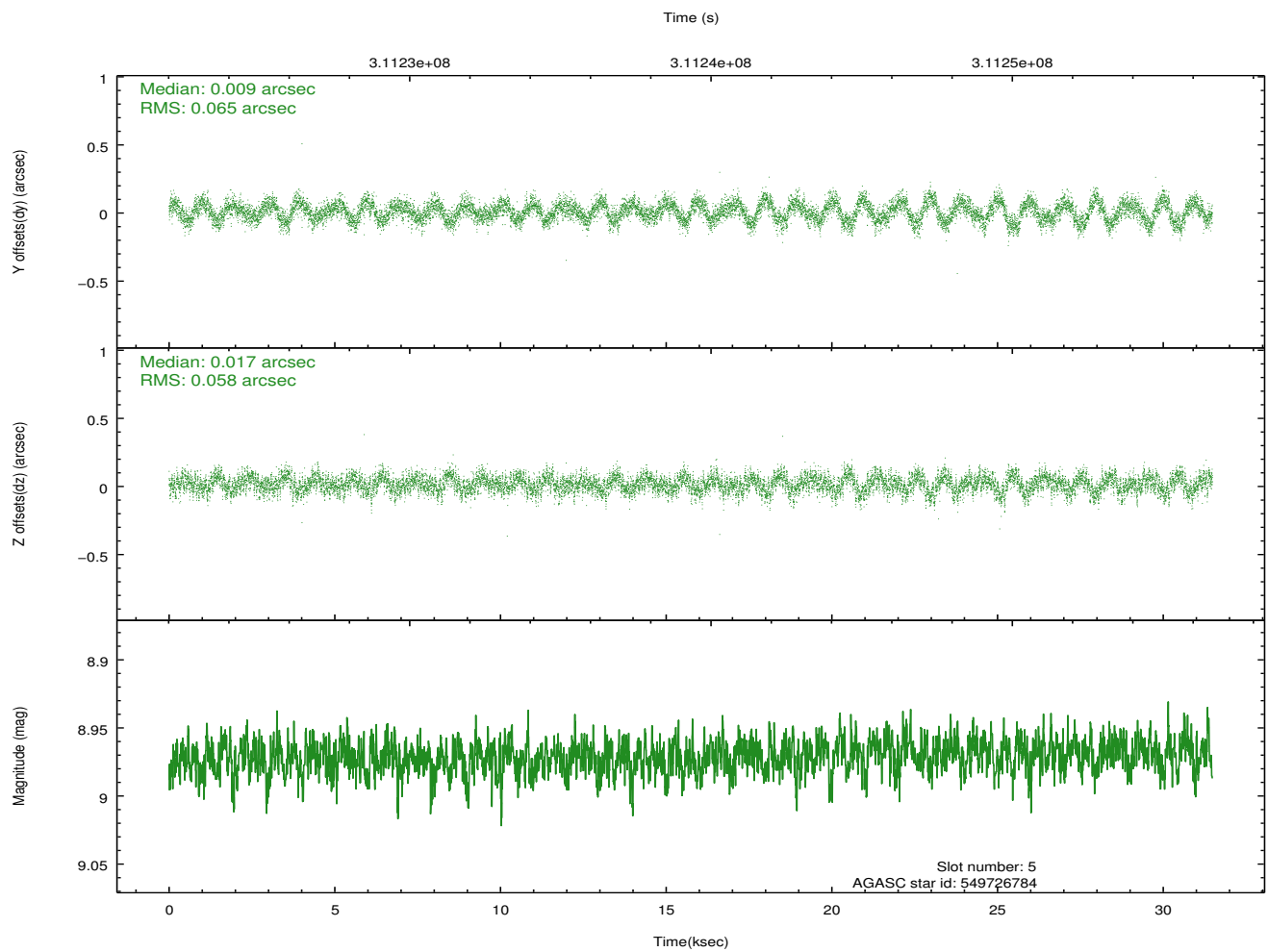
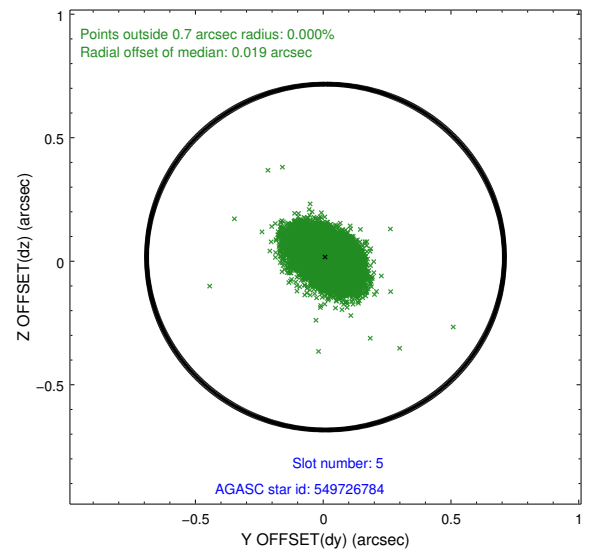
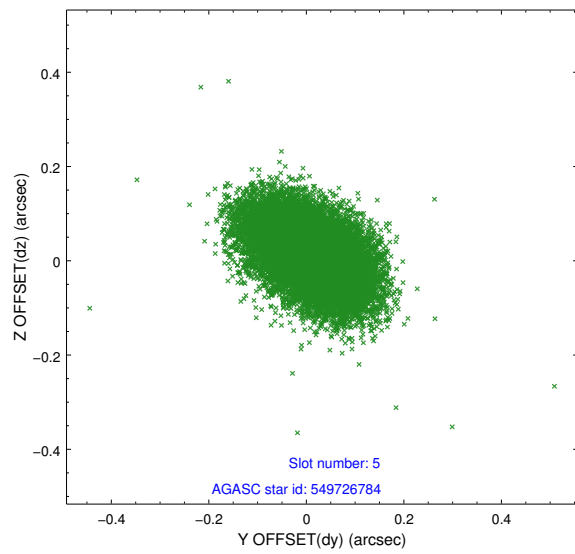
### 2.4.1 Slot 3



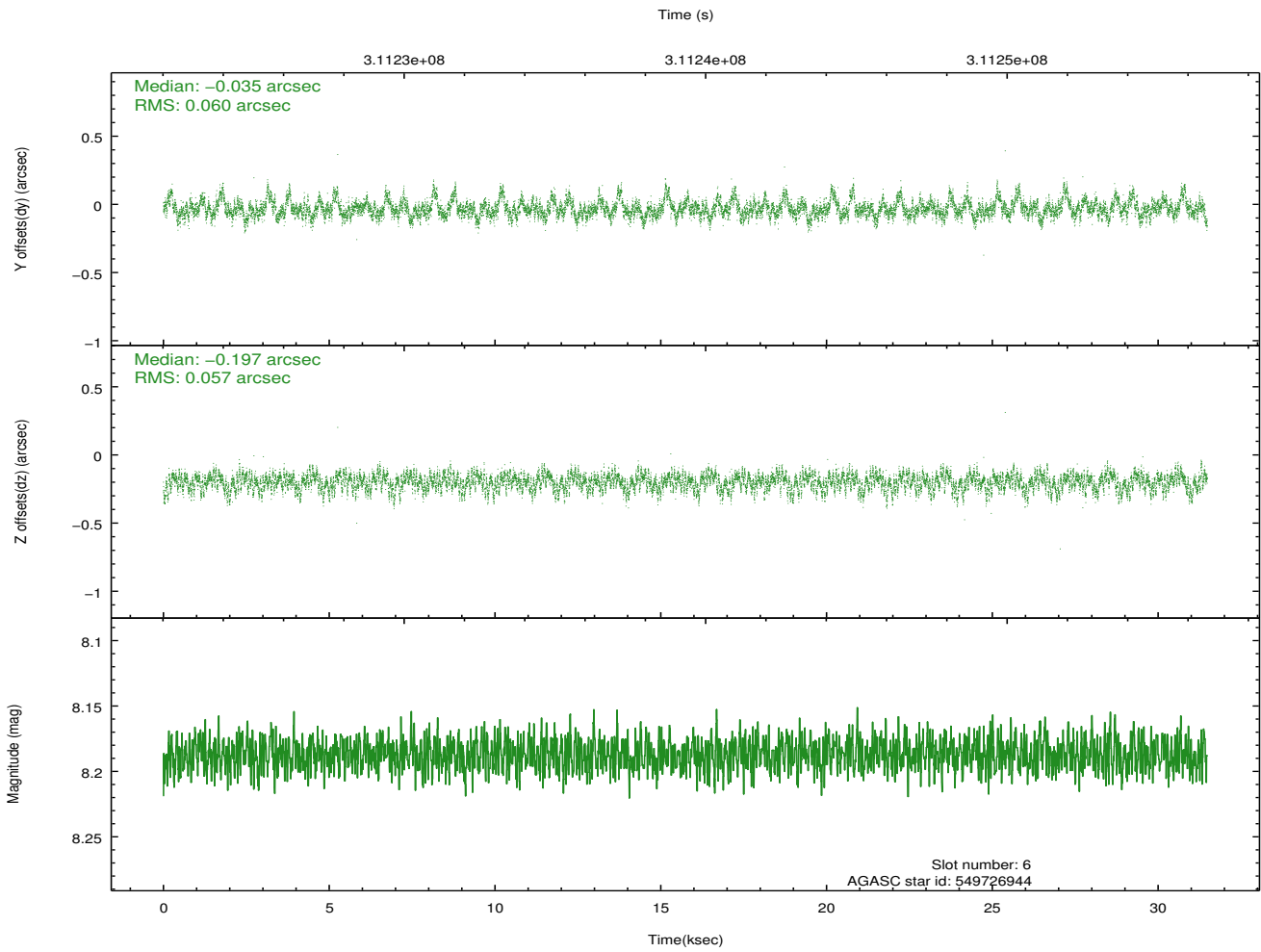
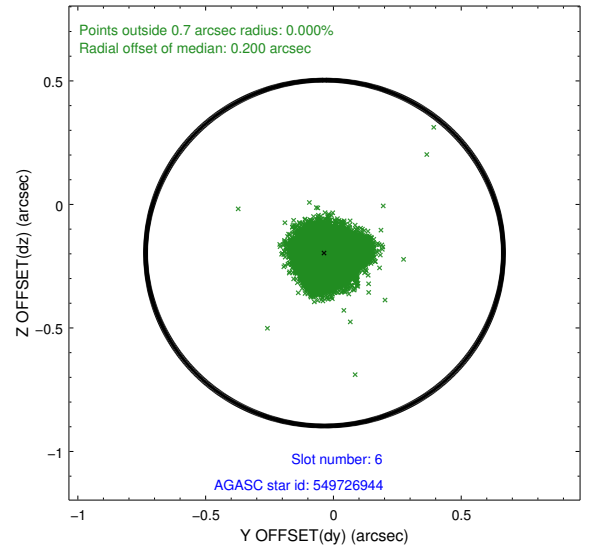
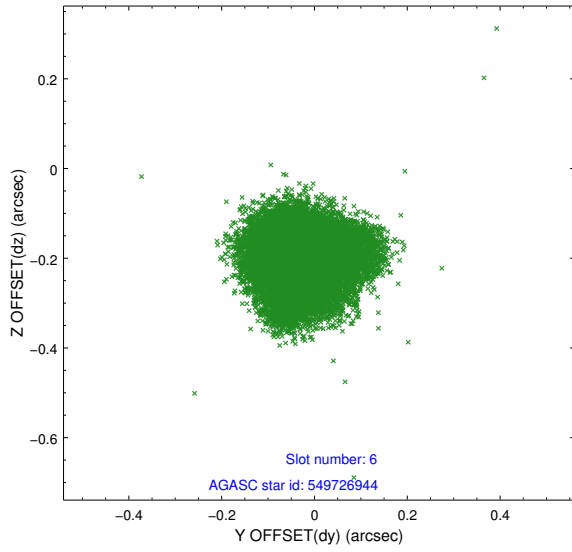
## 2.4.2 Slot 4



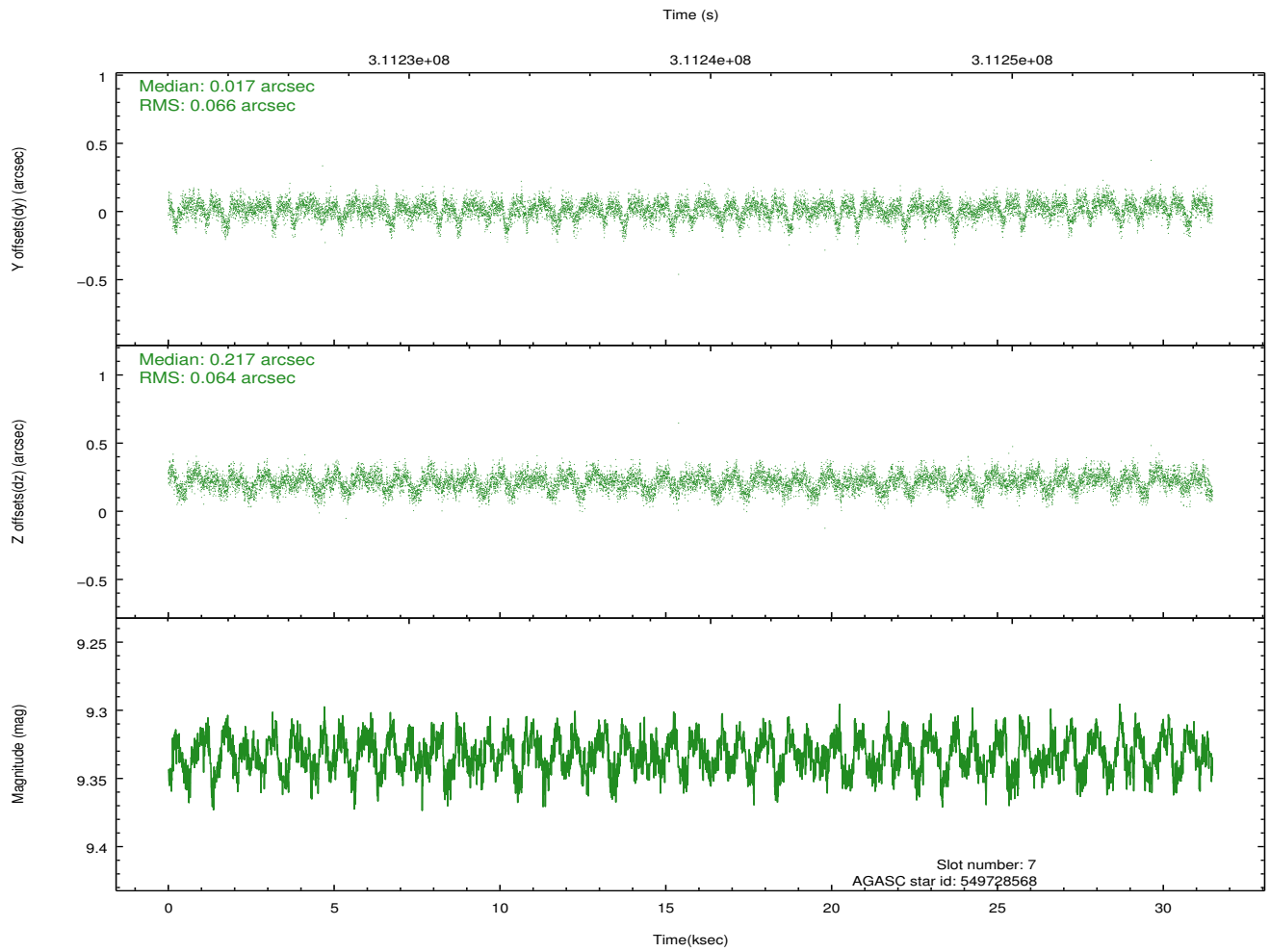
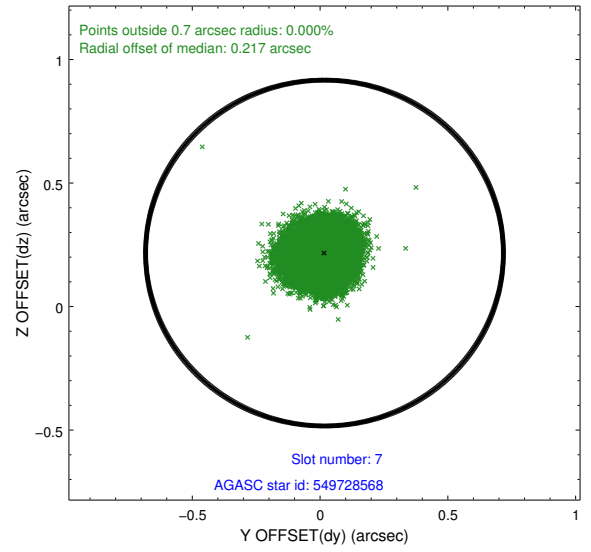
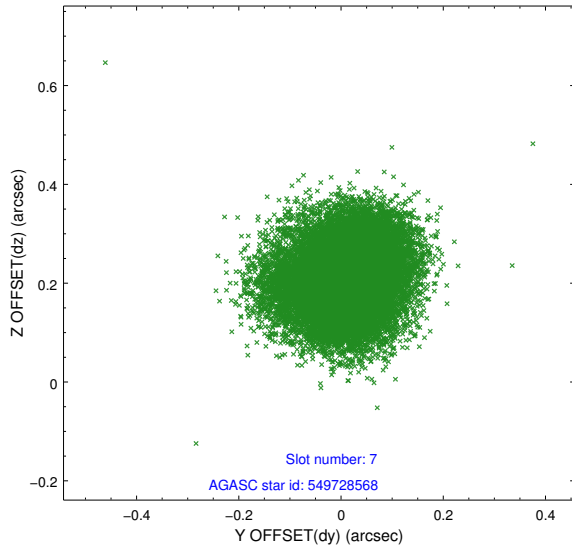
### 2.4.3 Slot 5



### 2.4.4 Slot 6

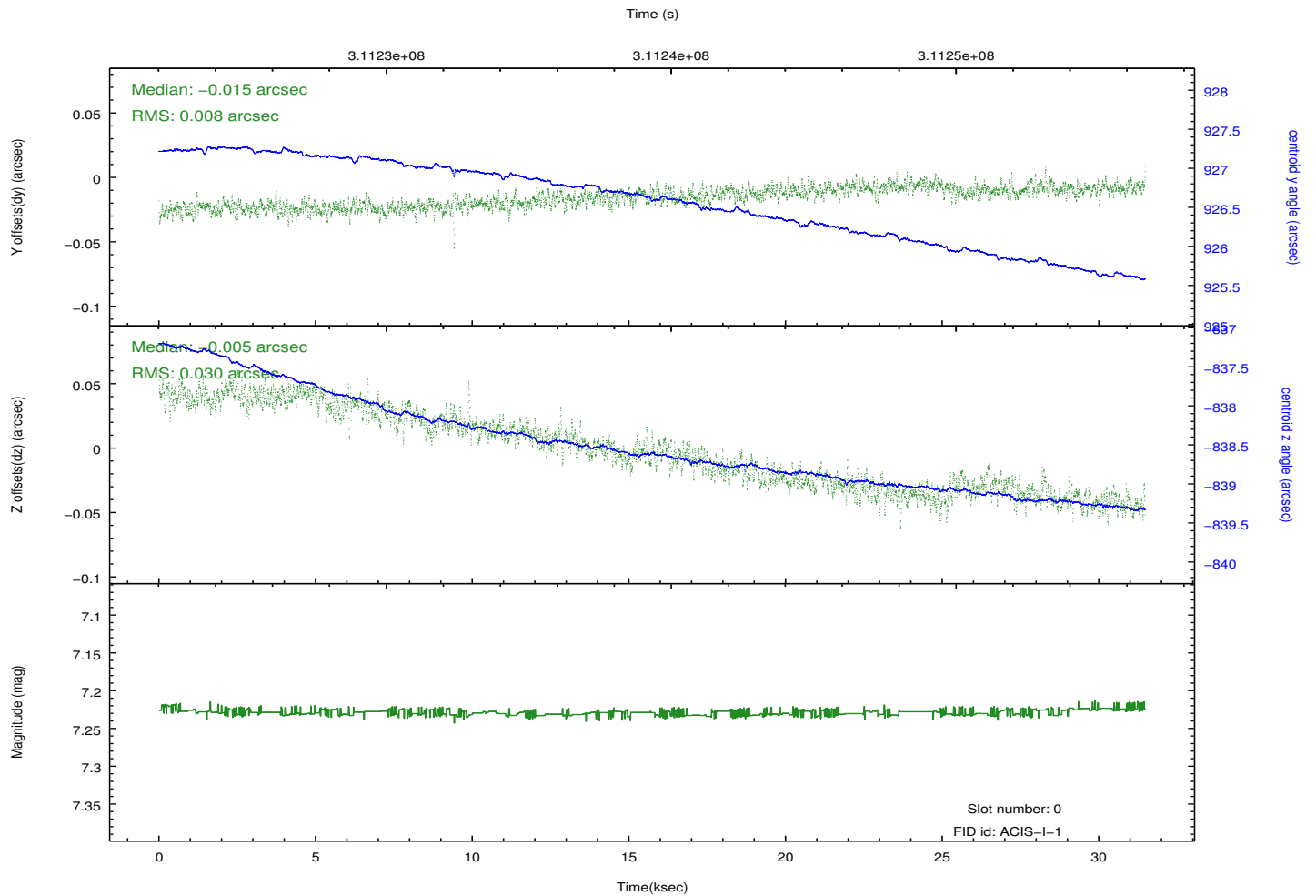
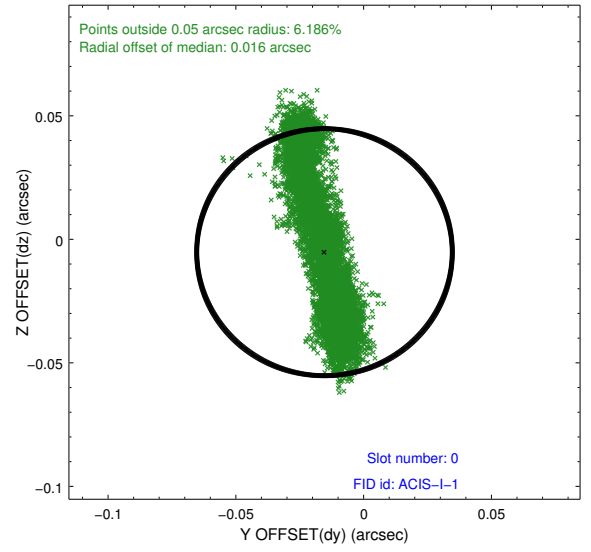
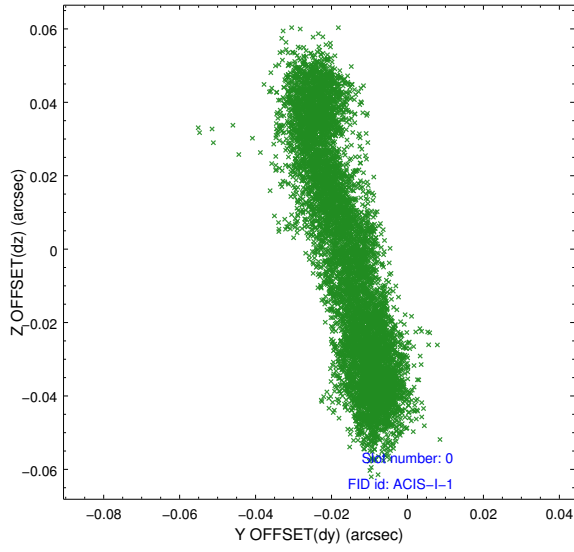


### 2.4.5 Slot 7

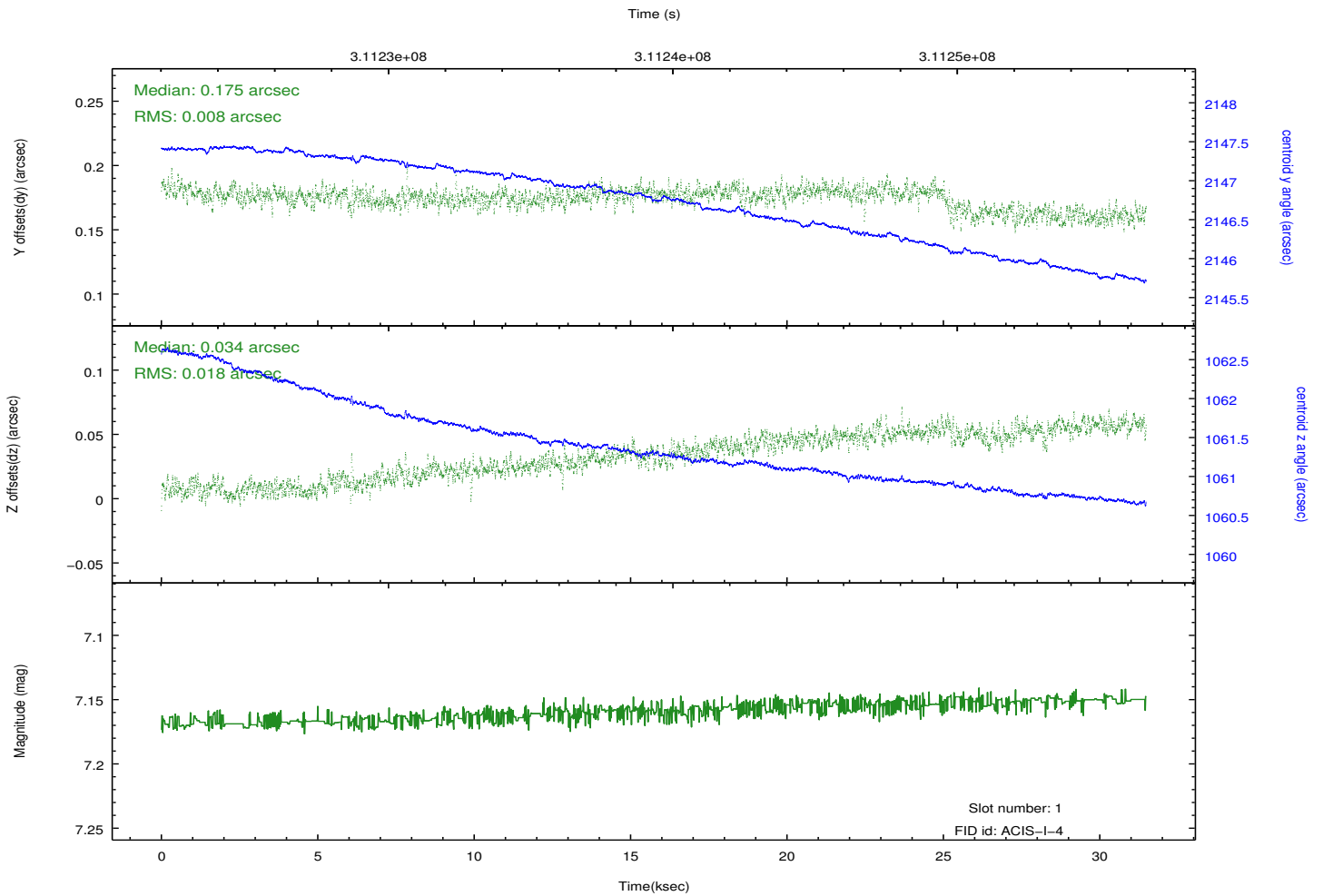
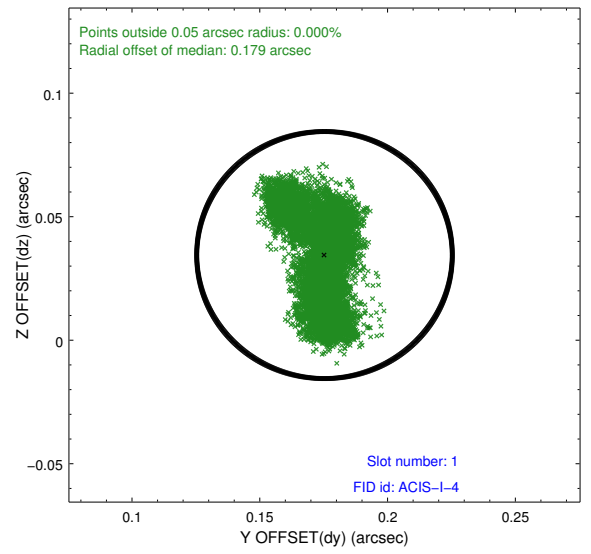
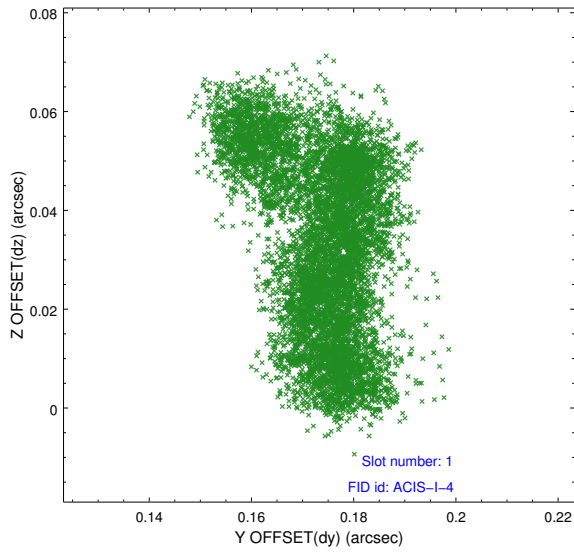


## 2.5 FID Slots

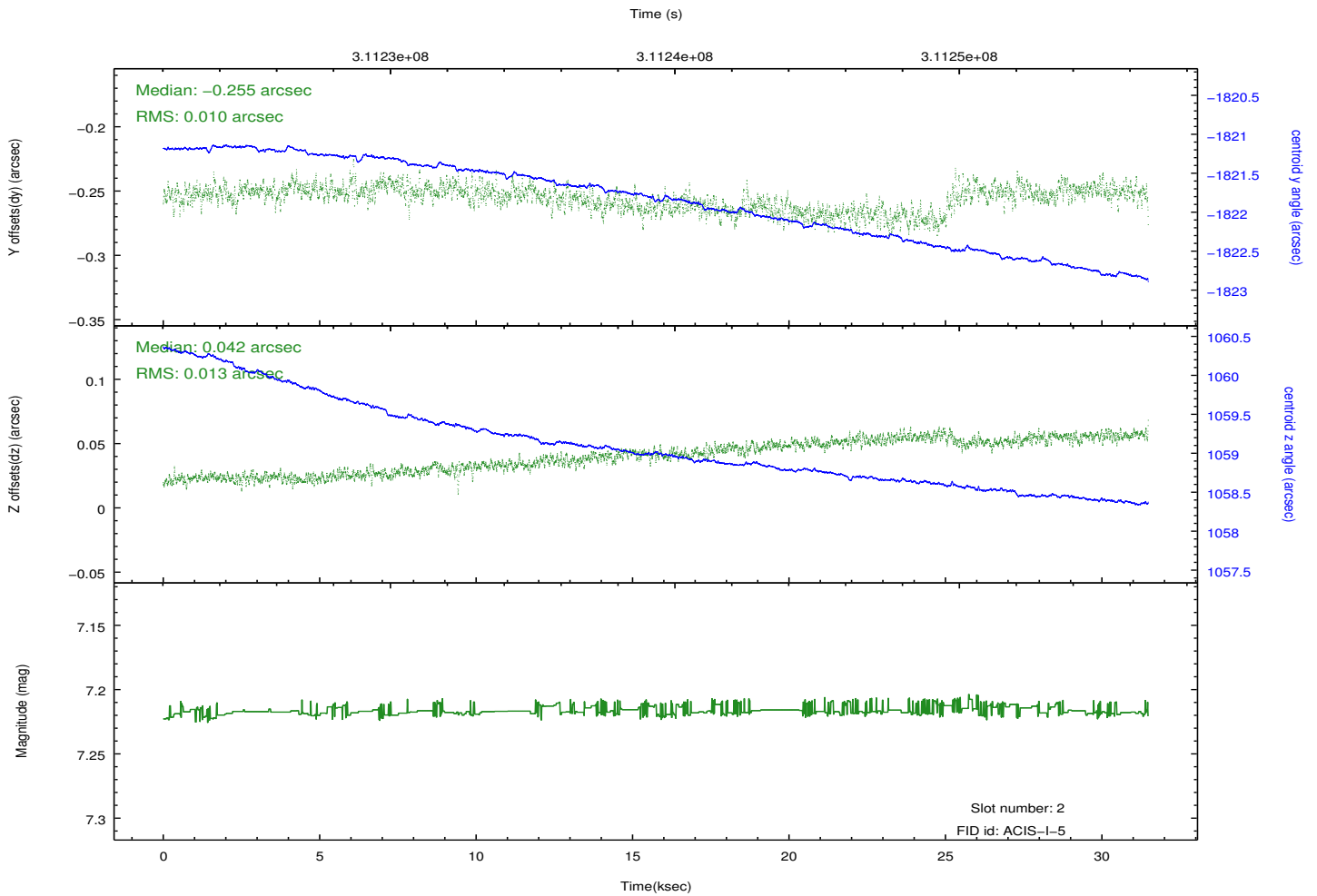
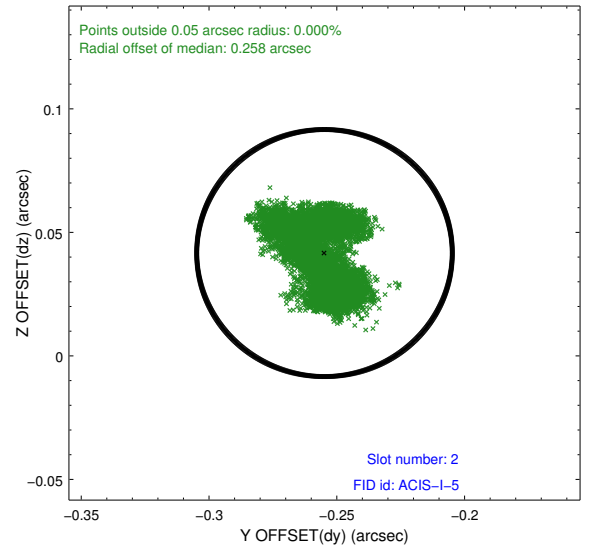
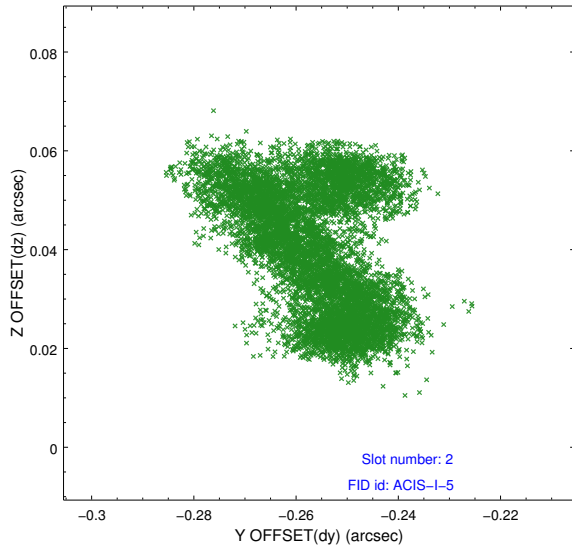
### 2.5.1 Slot 0



## 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)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.3951588

## A.2 Comments

Roll angle constraint met.