

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16346 - L2 Version 2
Chandra X-Ray Center

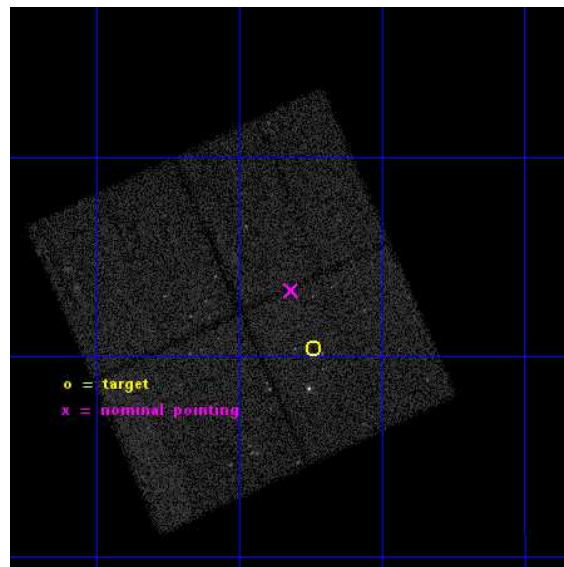
L2 Processing Date : Dec 9 2014

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1 Front

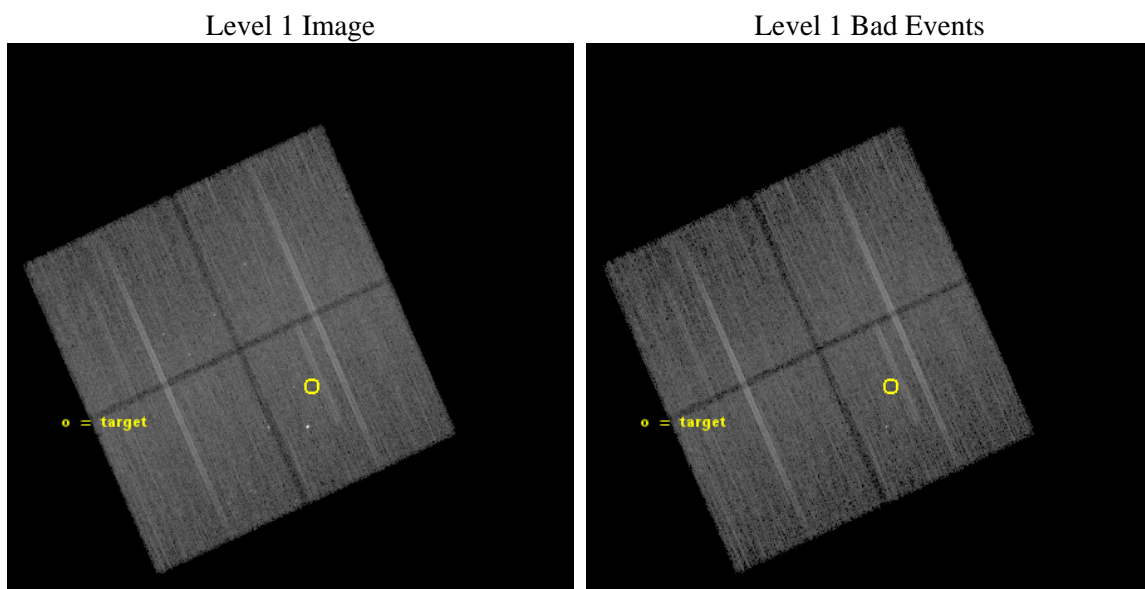
seq_num	601146	Sequence number
obs_id	16346	Observation id
title	Searching for evidence of dwarf galaxy collisions with large spiral galaxies through X-ray emission	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	NGC3423	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.809583	Observer's specified target RA [deg]
dec_targ	5.84	Observer's specified target Dec [deg]
ra_nom	162.82937623147	Nominal RA [deg]
dec_nom	5.8889624907167	Nominal Dec [deg]
roll_nom	65.667574362018	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48090.103662729	Sum of GTIs [s]
livetime	47461.771054956	Livetime [s]
ontime0	48089.980542719	Sum of GTIs [s]
ontime1	48086.880532384	Sum of GTIs [s]
ontime2	48090.062622726	Sum of GTIs [s]
ontime3	48090.103662729	Sum of GTIs [s]
l2events	99644	Number of level 2 events



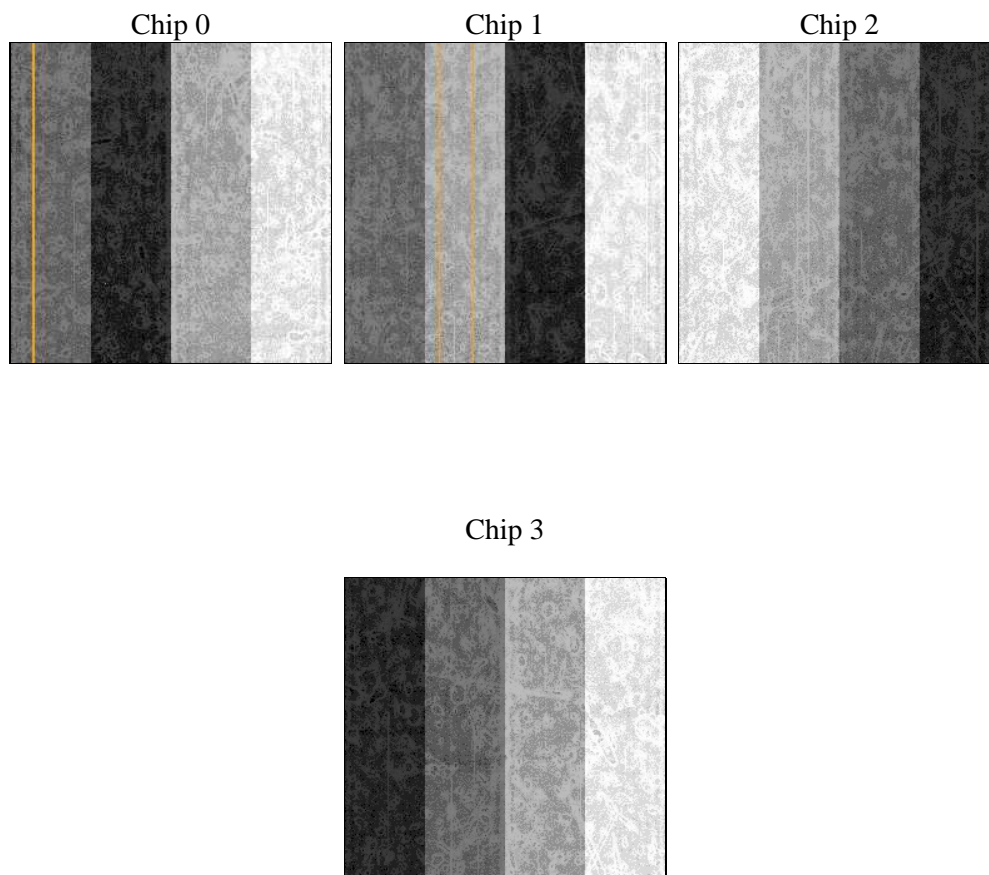
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	48090.103662729	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	48089.980542719	Sum of GTIs [s]
date	2014-12-10T02:52:20	Date and time of file creation	ontime1	48086.880532384	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	48090.062622726	Sum of GTIs [s]
			ontime3	48090.103662729	Sum of GTIs [s]
			l1events	875341	Number of level 1 events

2.1.4 Events

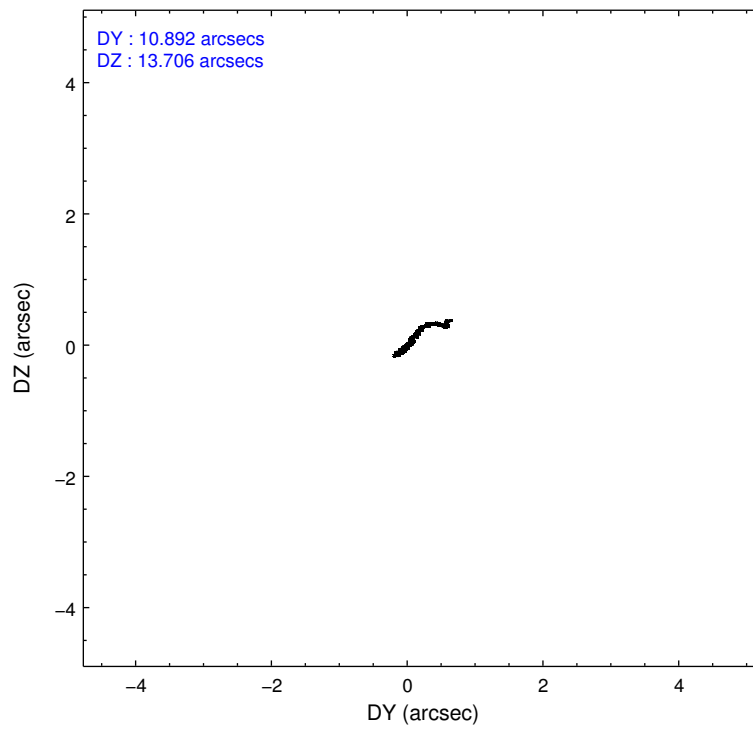
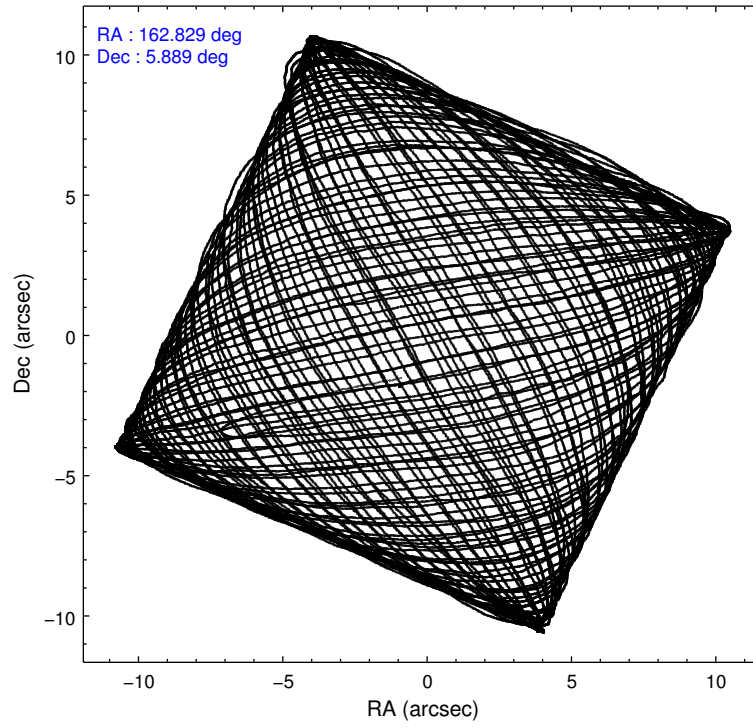
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	205978	212939	227683	228741
rejected events	178587	182953	201328	195640
rejected %	86%	85%	88%	85%

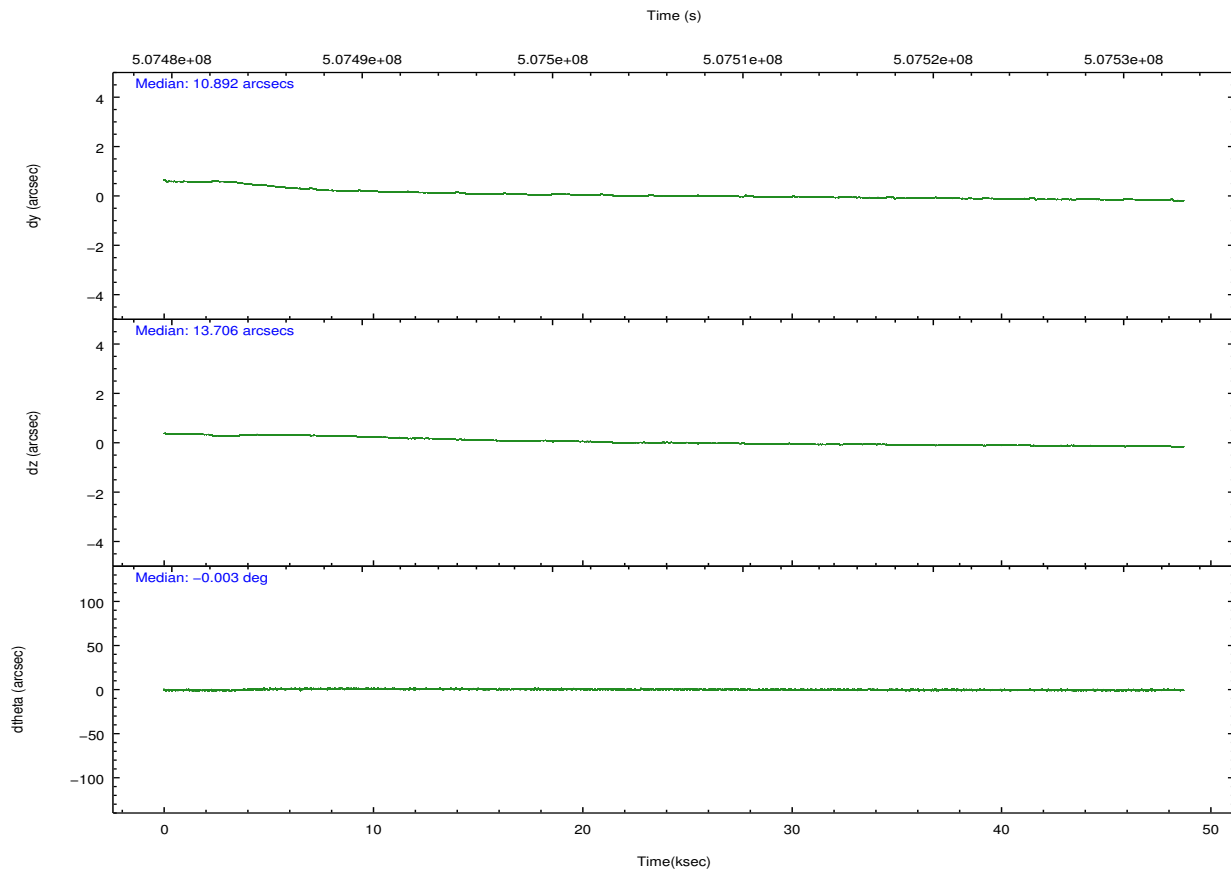
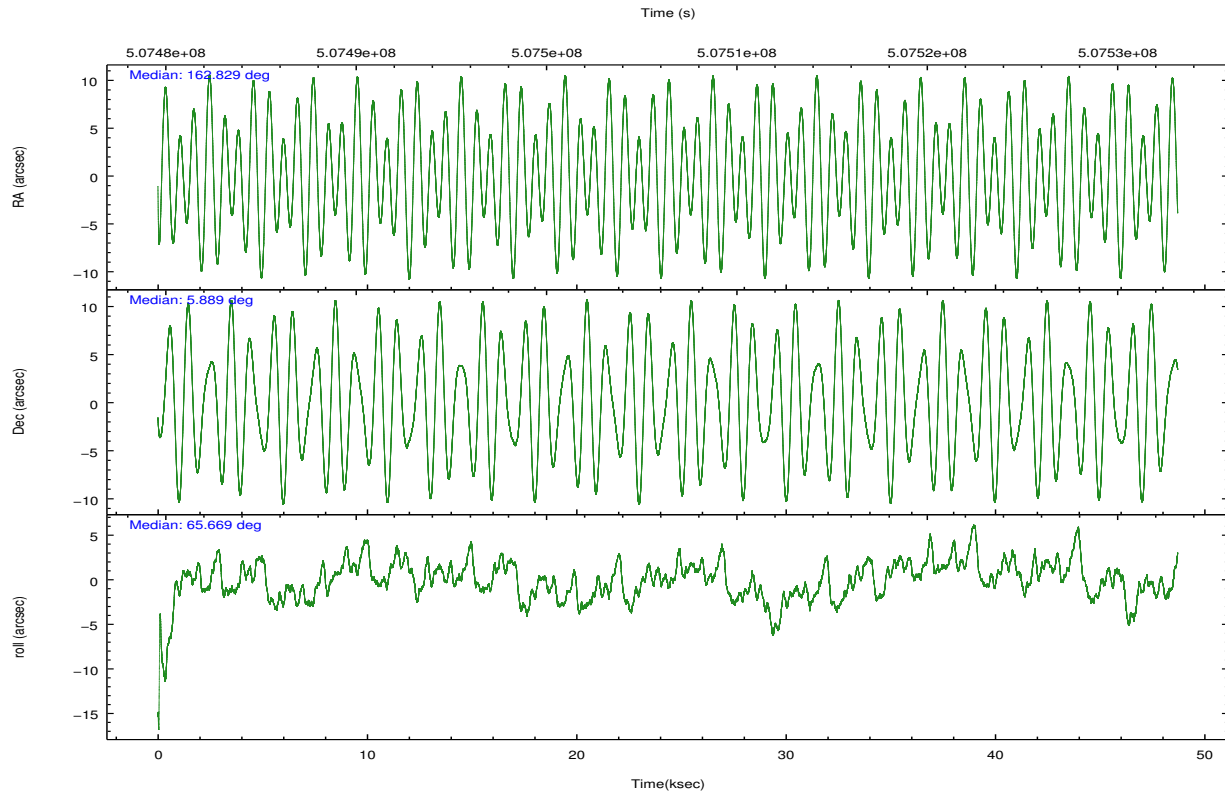
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9624	10681	9409	14503
	4%	5%	4%	6%
grade 1 events	123	107	113	278
	0%	0%	0%	0%
grade 2 events	6700	6822	6247	6685
	3%	3%	2%	2%
grade 3 events	2855	2929	2672	3066
	1%	1%	1%	1%
grade 4 events	2659	2929	2726	3101
	1%	1%	1%	1%
grade 5 events	10900	11561	10305	12500
	5%	5%	4%	5%
grade 6 events	5556	6626	5304	5752
	2%	3%	2%	2%
grade 7 events	167561	171284	190907	182856
	81%	80%	83%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	162.832210	162.8293762314682	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.861603	5.888962490716709	Alternating exposures requested	N	N
[deg] Pointing Roll	65.458599	65.66757436201817	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-227.192463	-227.1910163336601			
[mm] SIM translation stage offset	-6.4	-6.401436669269629			
[s] Observation start time (MET)	507482717.184000	507481059.35971			
Observation start date	2014-01-30T15:24:10	2014-01-30T14:57:39			
[s] Observation end time (MET)	507530717.184000	507531623.125			
Observation end date	2014-01-31T04:44:10	2014-01-31T05:00:23			
Read mode	TIMED	TIMED			

2.3 Aspect





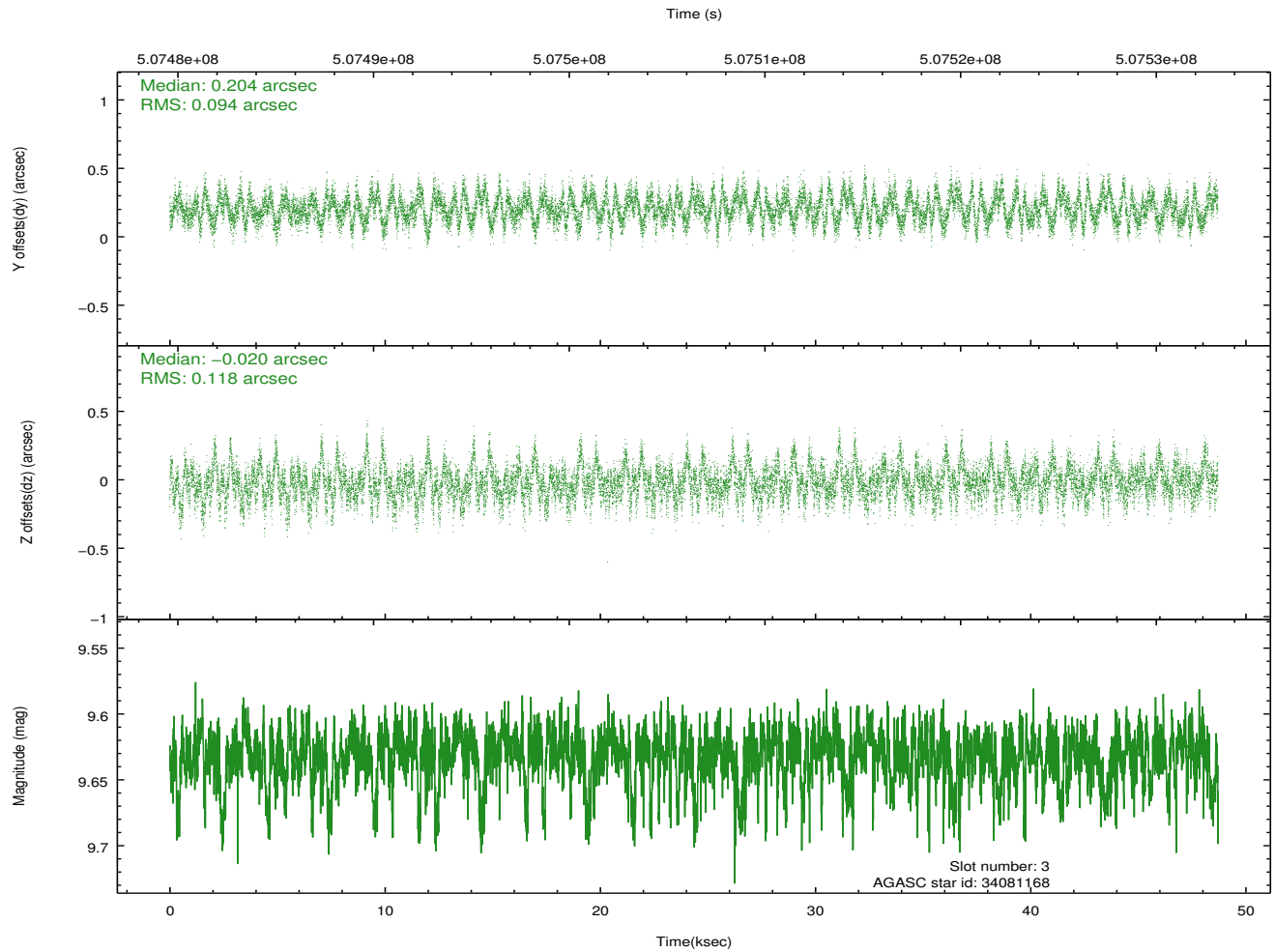
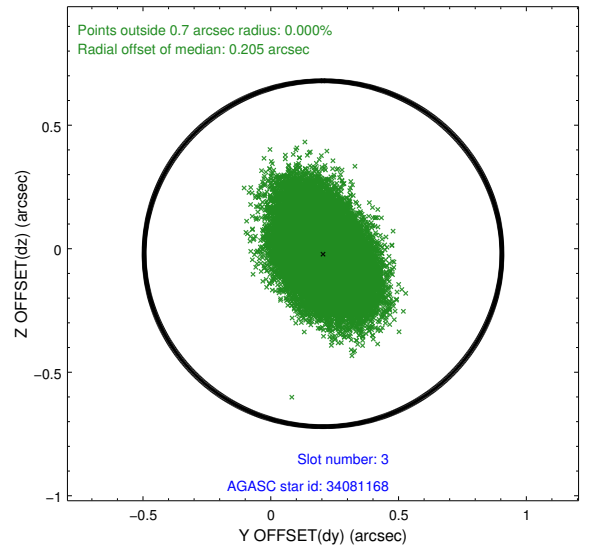
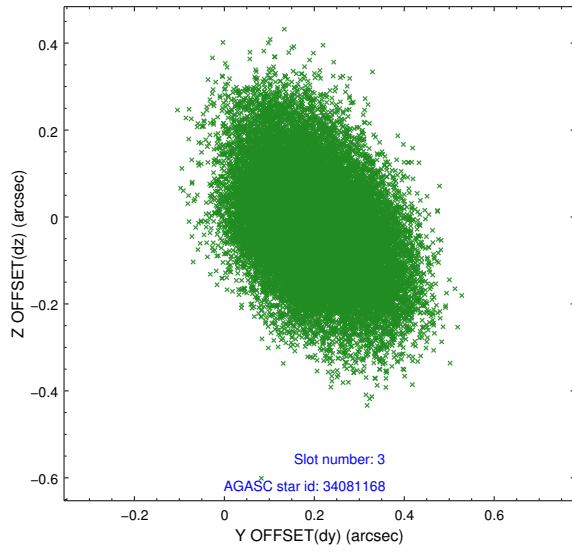
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	11881	0.136	-0.123	0.007	0.013	0.000000	0.000000	928.64	-968.83
1	FID		ACIS-I-5	7.15	11881	-0.280	0.107	0.007	0.011	0.000000	0.000000	-1819.91	928.86
2	FID		ACIS-I-6	7.17	11881	0.053	0.086	0.008	0.013	0.000000	0.000000	394.09	1573.35
3	GUIDE	used	34081168	9.63	23737	0.204	-0.020	0.159	0.268	162.334428	5.935353	-498.13	1732.68
4	GUIDE	used	34082136	9.87	23734	0.240	0.072	0.157	0.256	162.340985	5.709475	-1229.98	1373.80
5	GUIDE	used	34082568	9.77	23738	0.029	-0.158	0.132	0.217	162.090983	5.775806	-1382.29	2287.62
6	GUIDE	used	34211456	9.74	23732	-0.256	-0.068	0.149	0.241	162.503882	6.522602	1676.78	2056.99
7	GUIDE	used	34216256	9.08	23742	-0.210	0.177	0.108	0.182	162.801002	6.058702	598.73	396.77

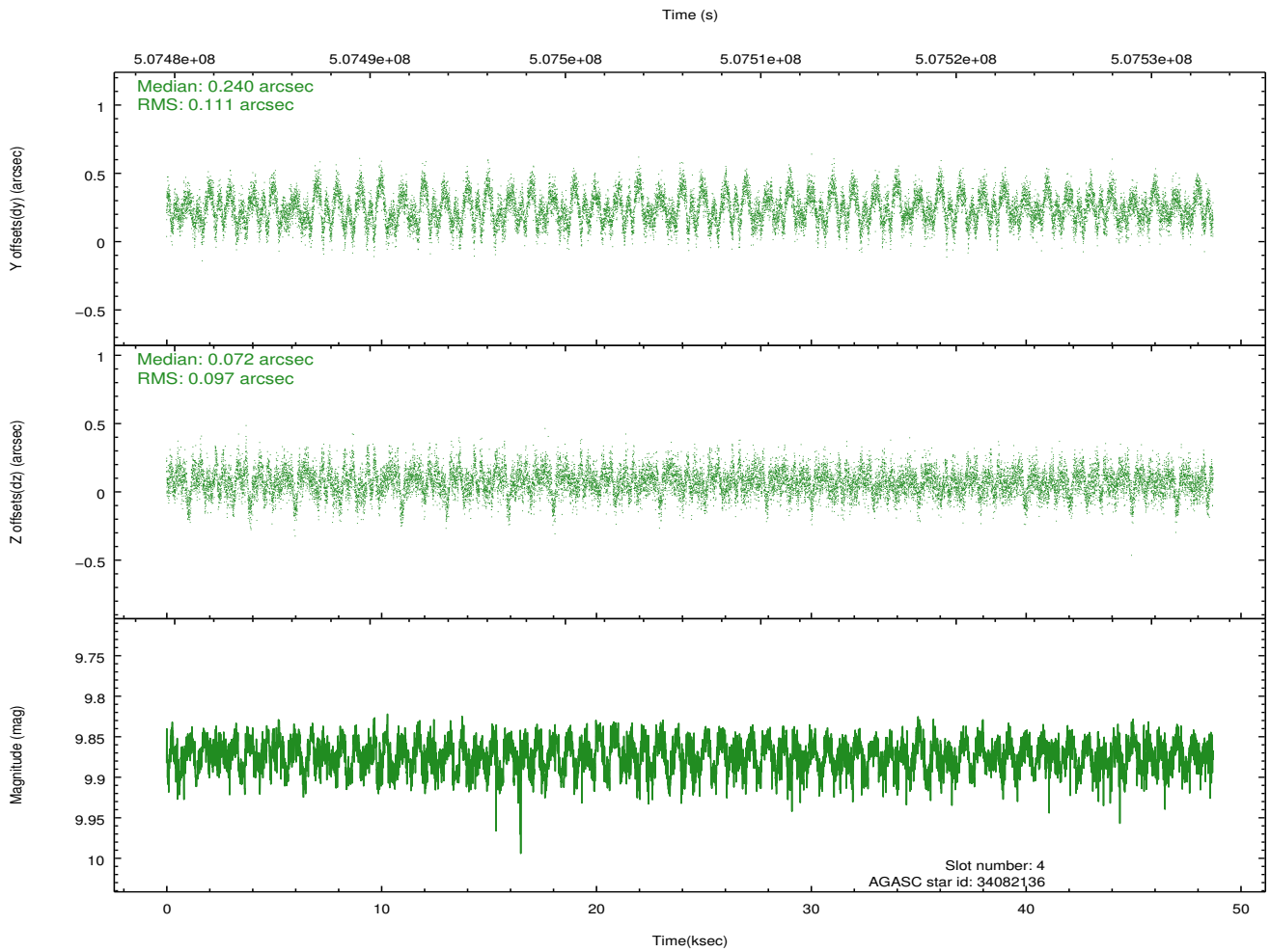
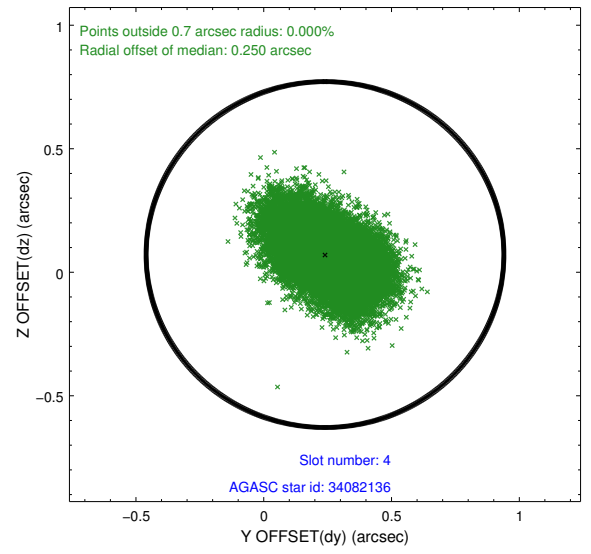
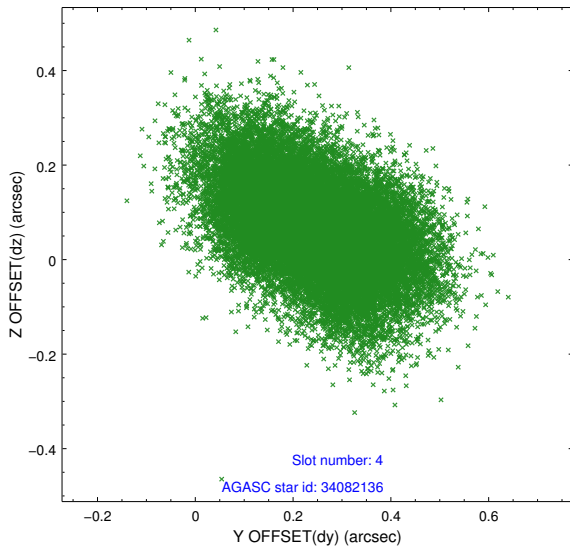
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2.4 Star Slots

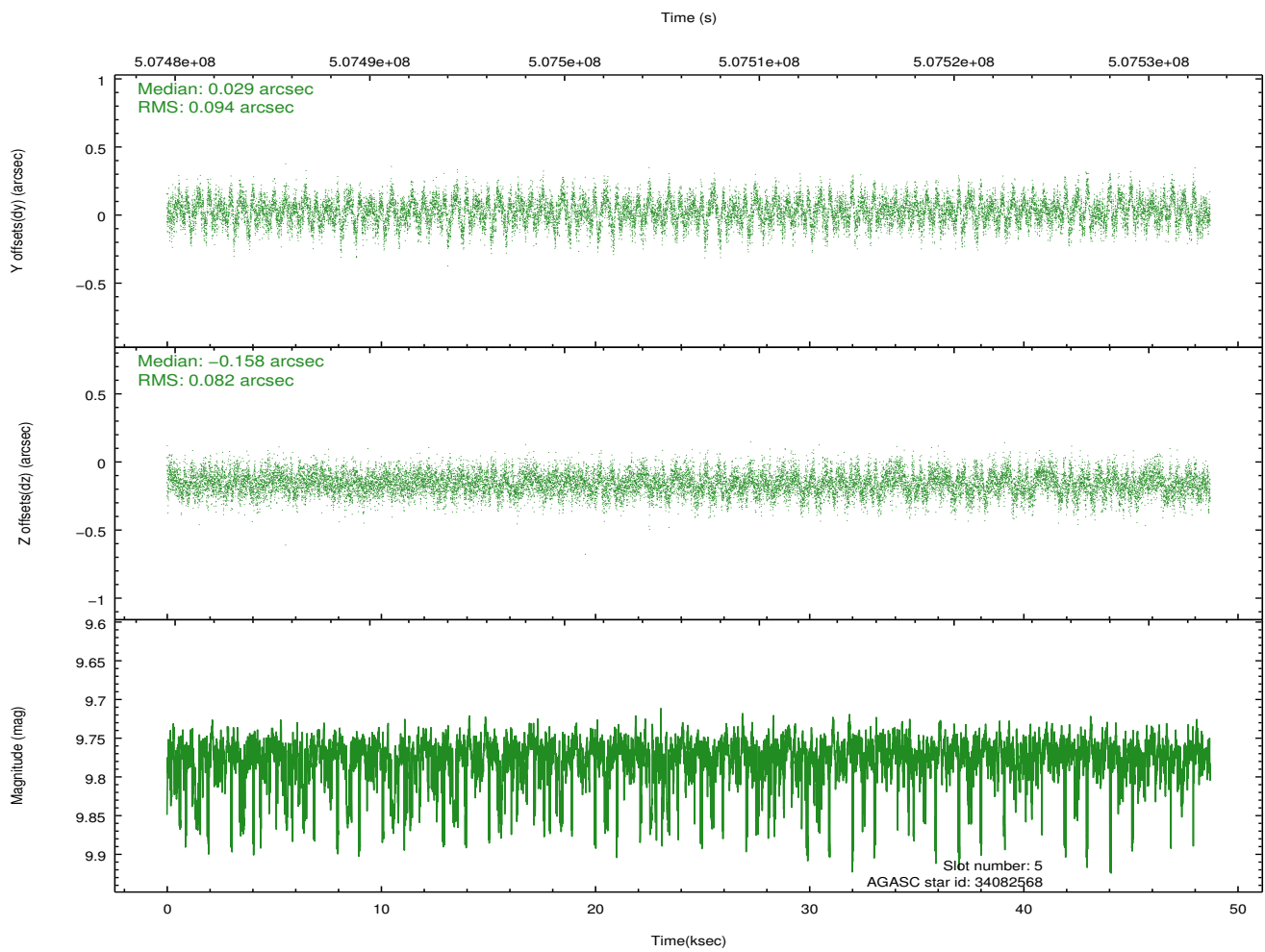
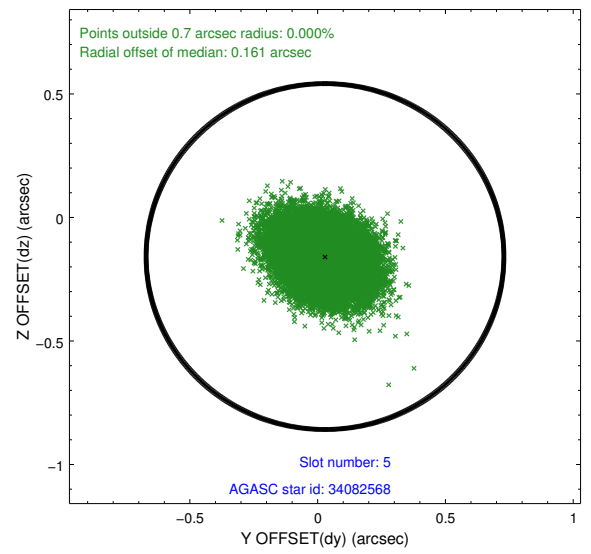
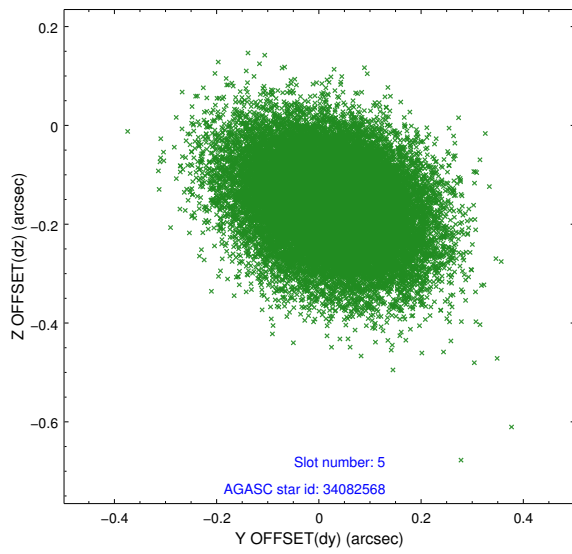
2.4.1 Slot 3



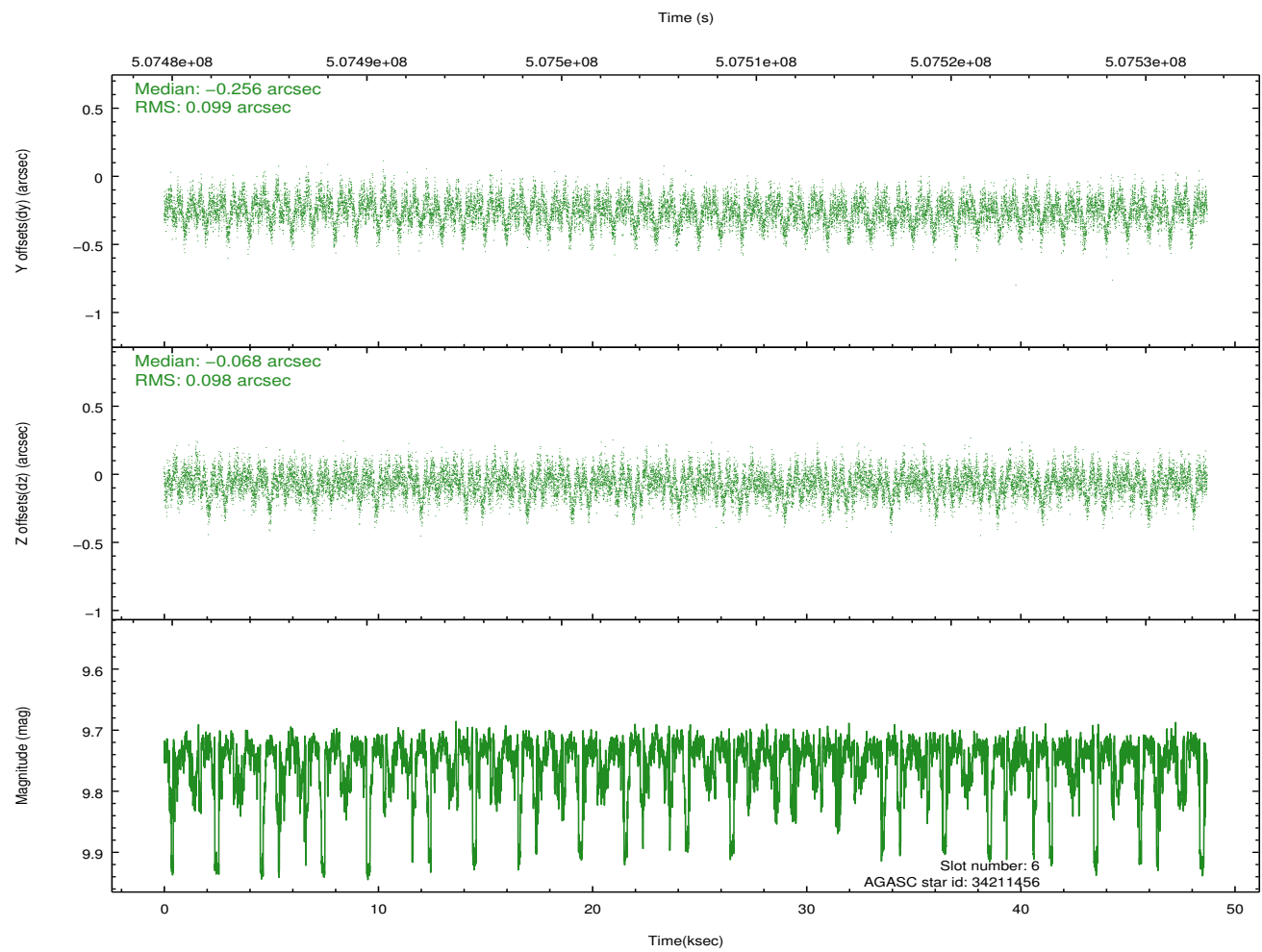
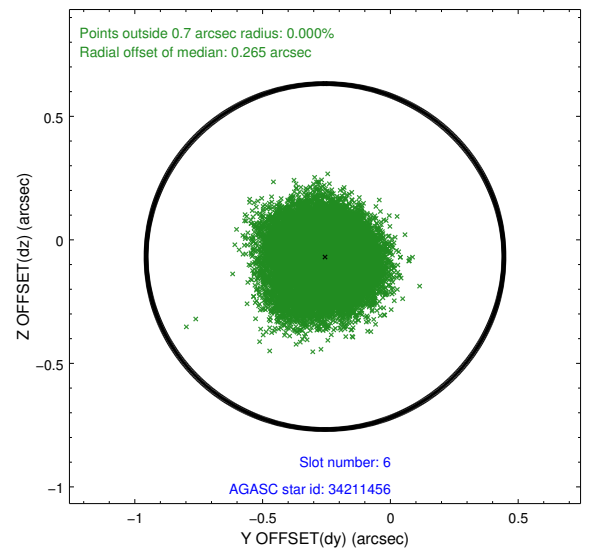
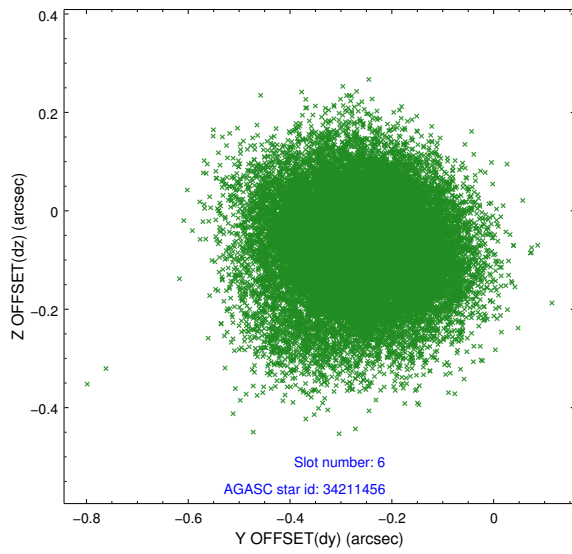
2.4.2 Slot 4



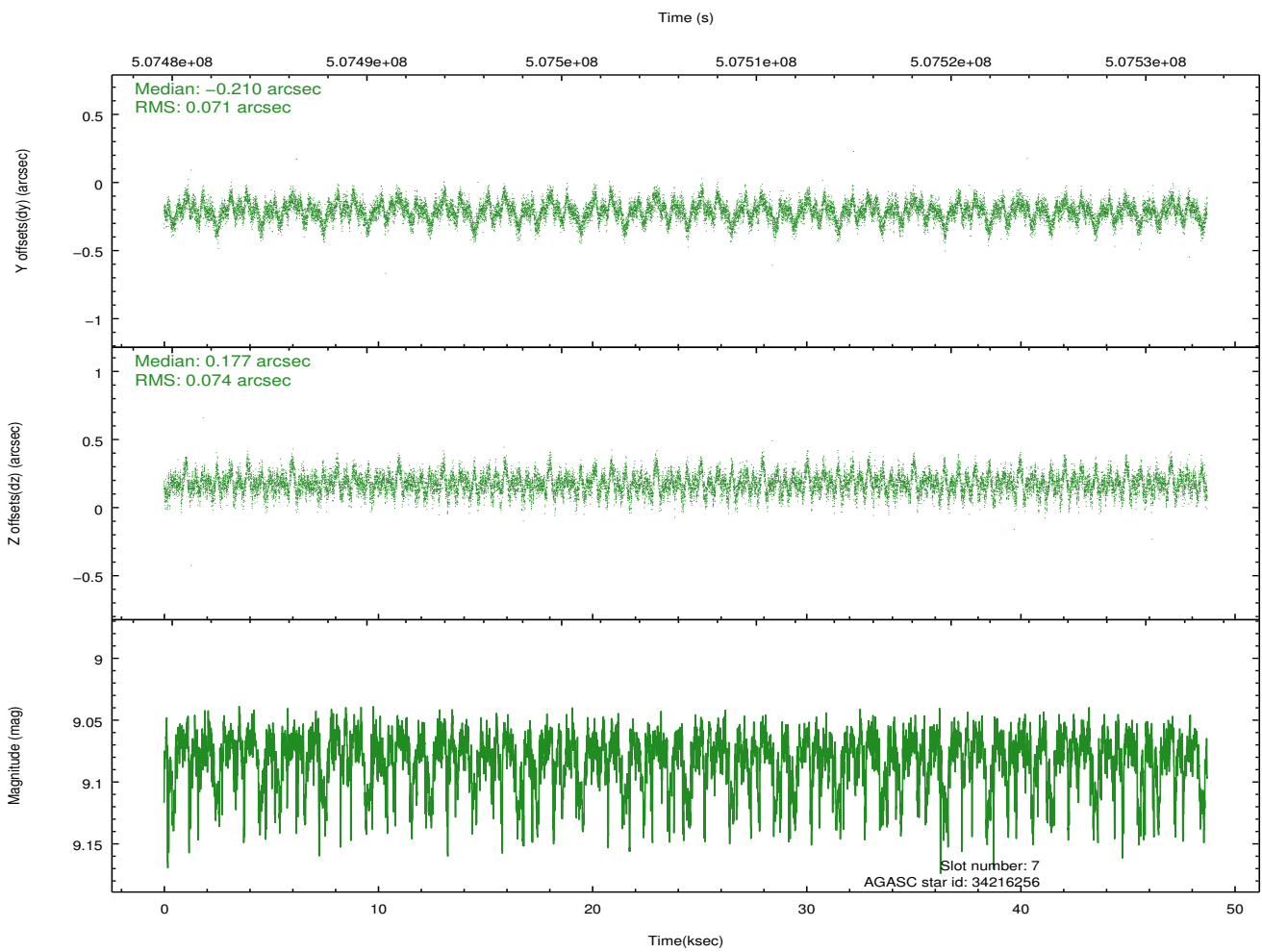
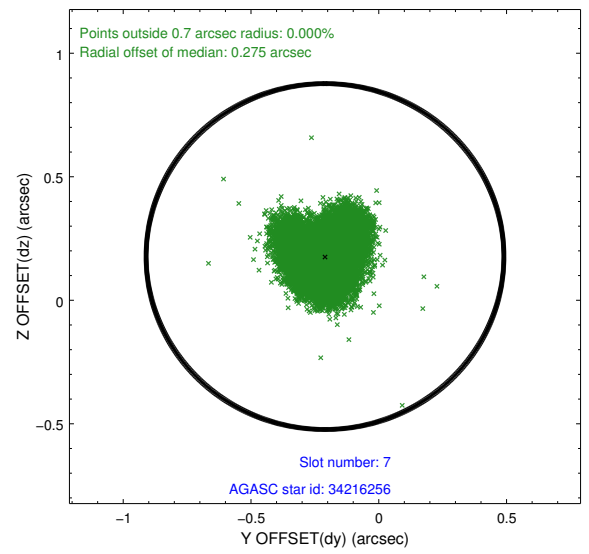
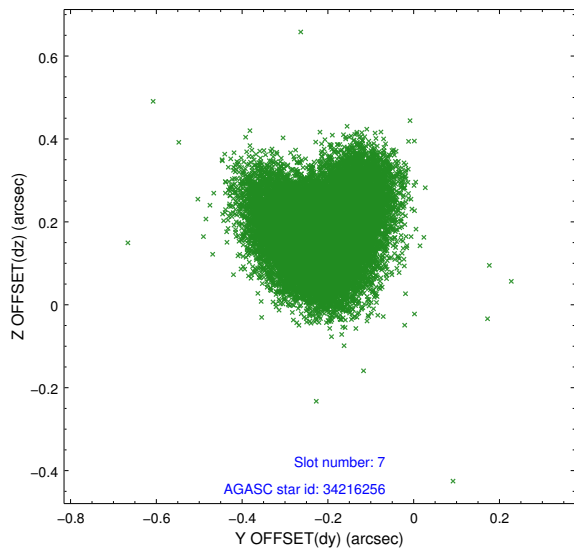
2.4.3 Slot 5



2.4.4 Slot 6

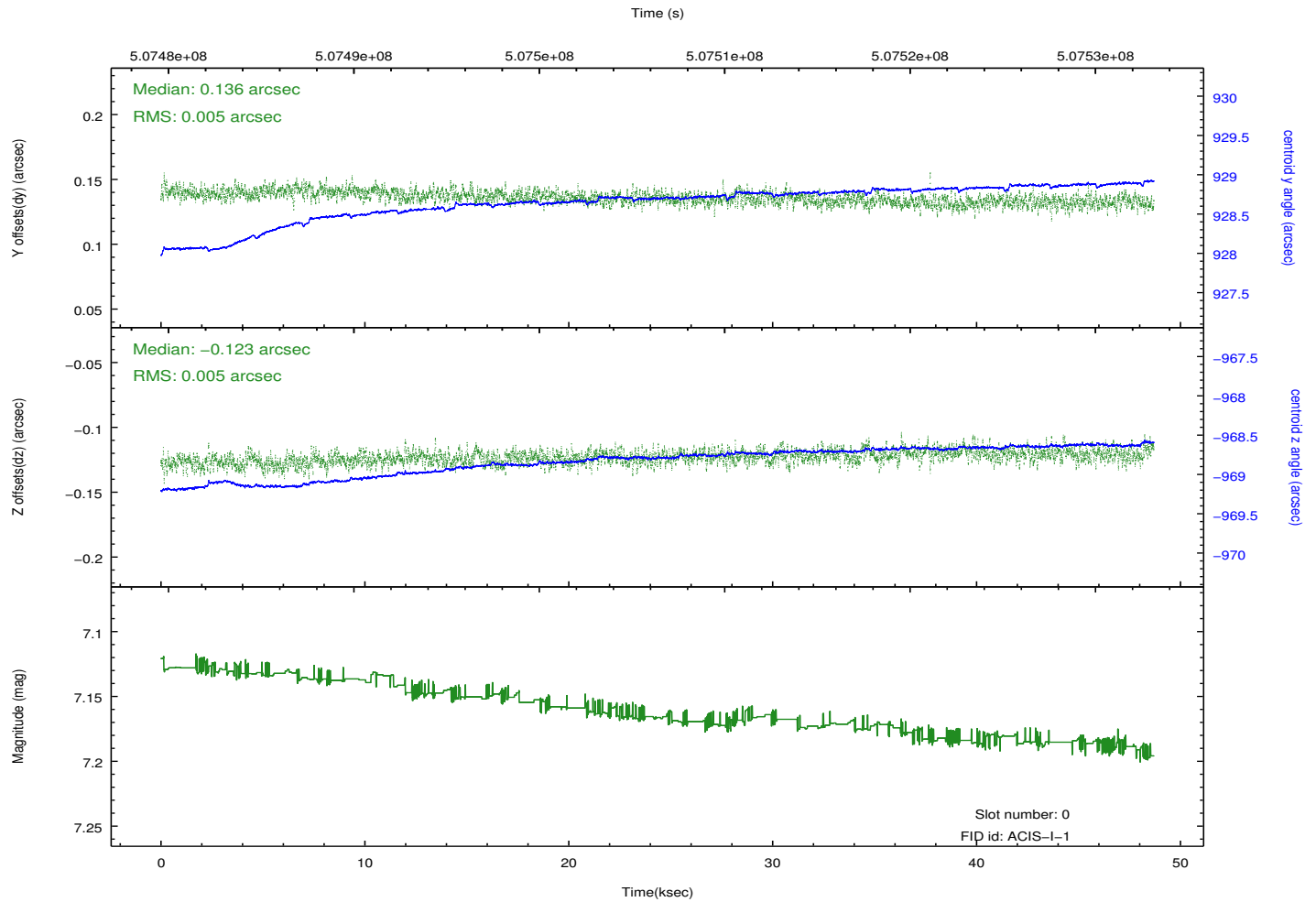
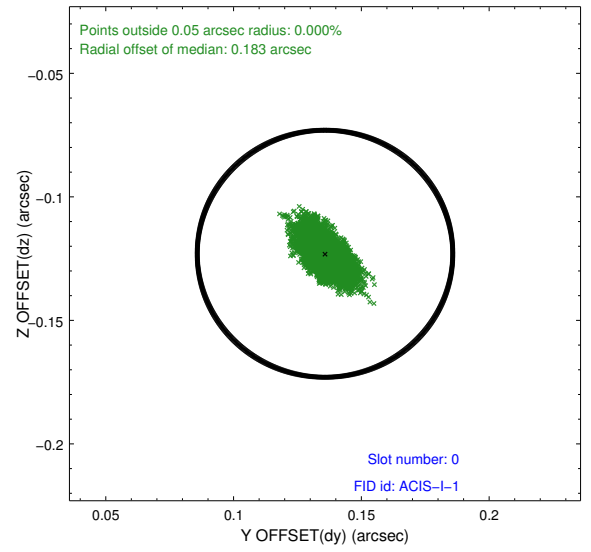
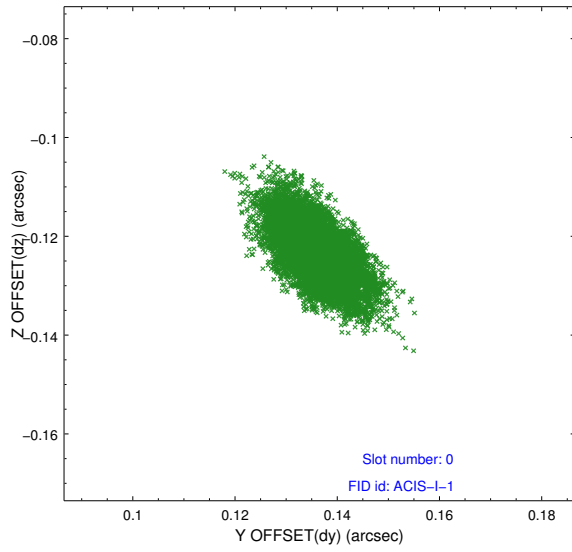


2.4.5 Slot 7

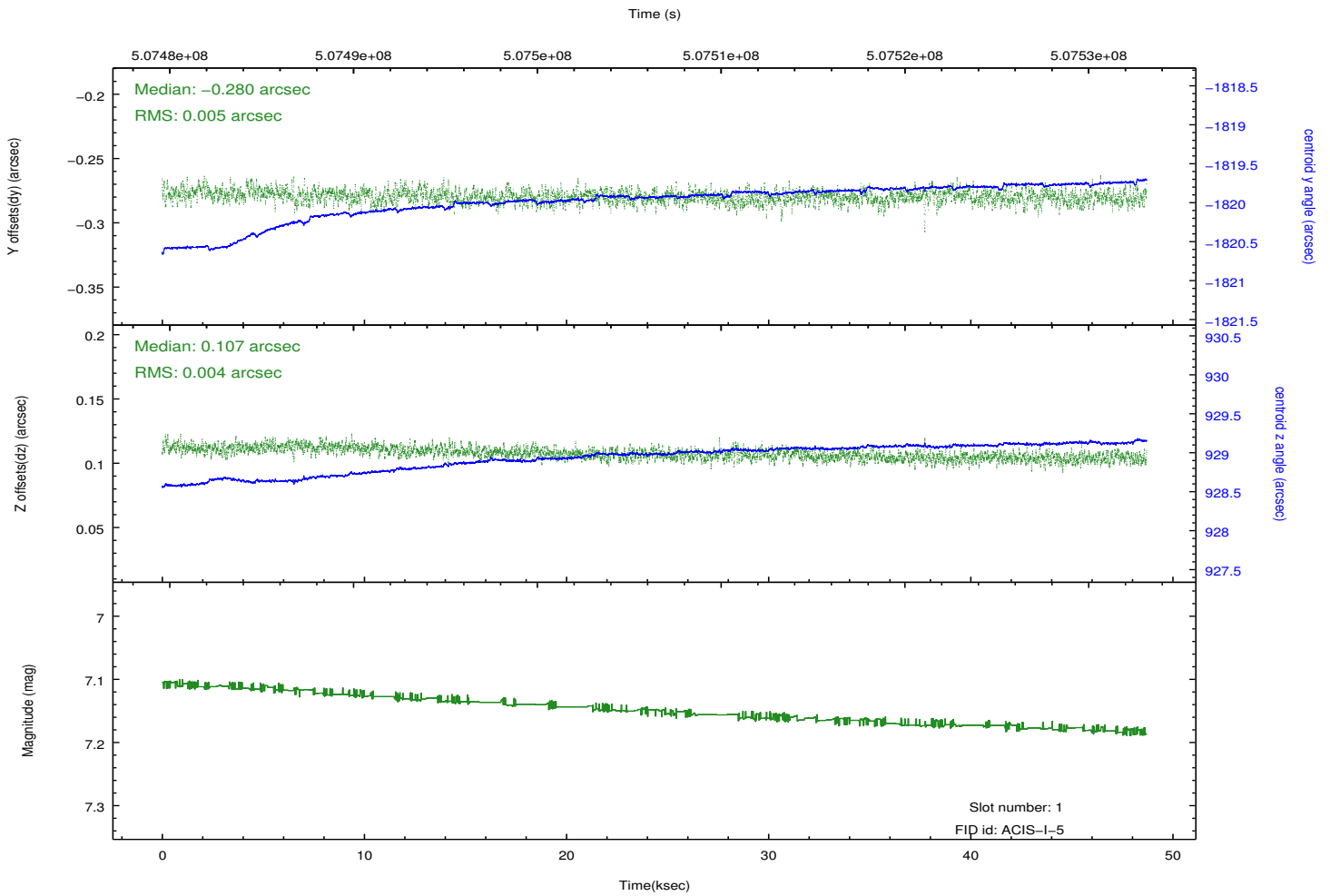
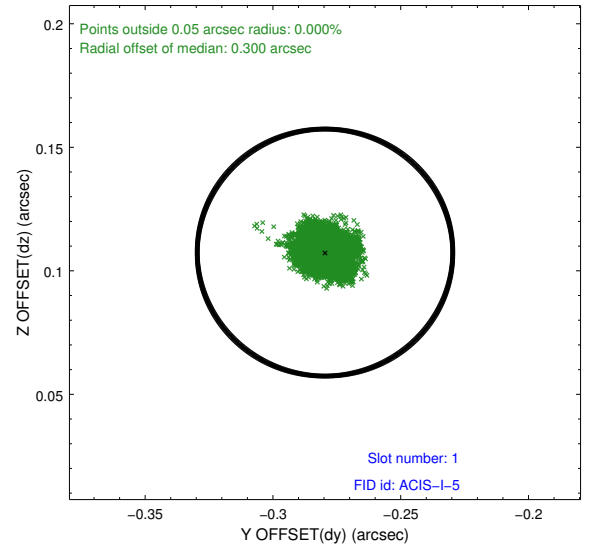
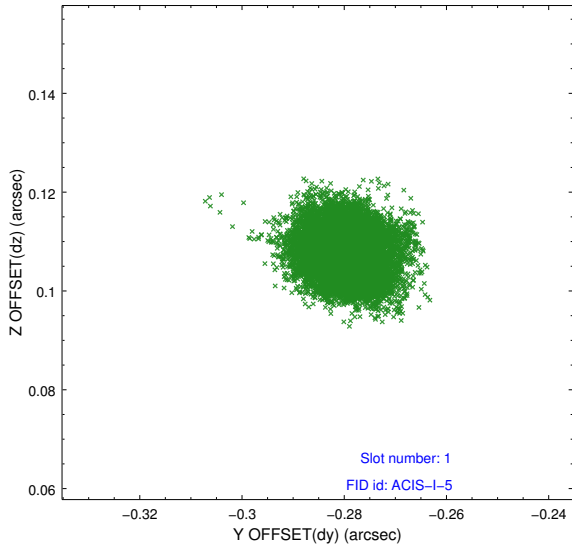


2.5 FID Slots

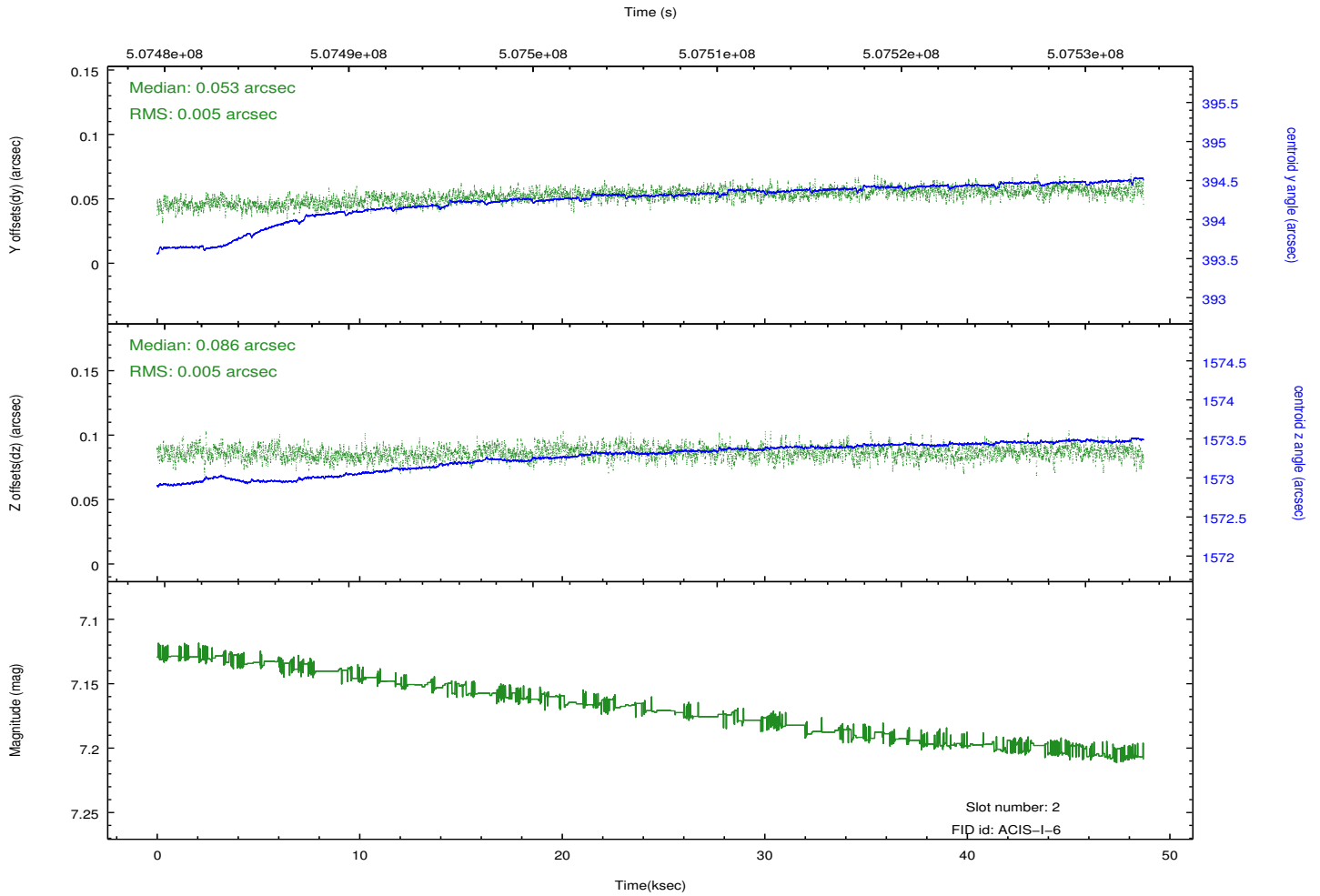
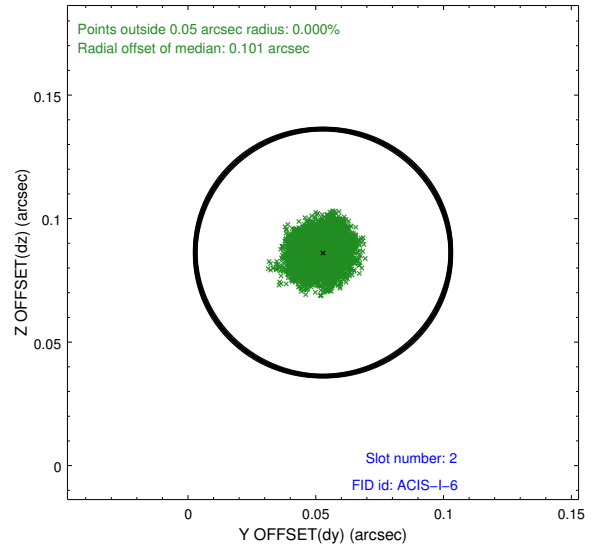
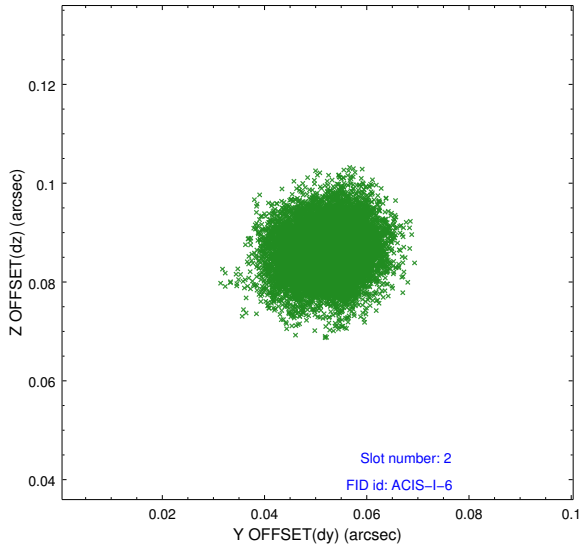
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.090103662729

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.