

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16619 - L2 Version 2
Chandra X-Ray Center

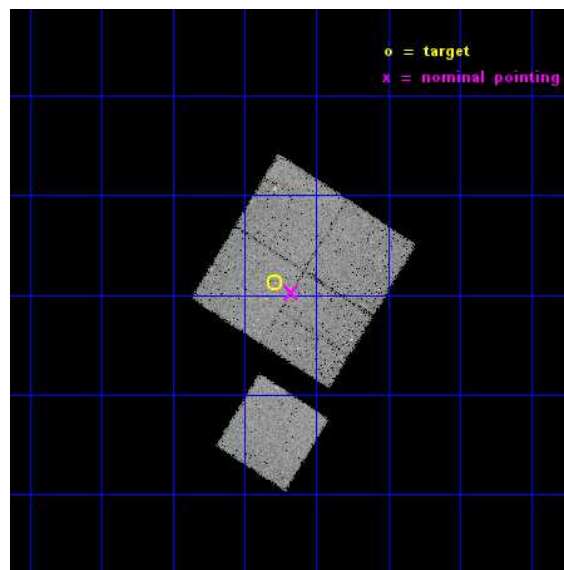
L2 Processing Date : Dec 11 2014

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1 Front

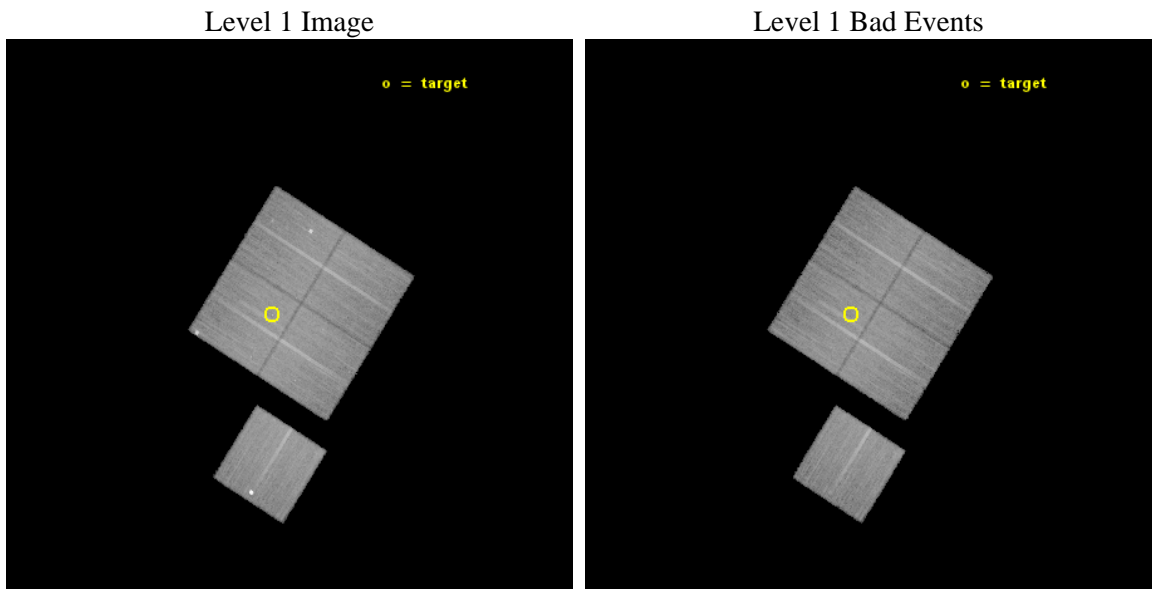
seq_num	901100	Sequence number
obs_id	16619	Observation id
title	The growth of the most massive black holes and galaxies: A study of AGN in an overdensity at $z=2.53$.	Proposal title
observer	Dr. Paul Martini	Principal investigator
object	4C -00.62	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	240.322083	Observer's specified target RA [deg]
dec_targ	-0.479722	Observer's specified target Dec [deg]
ra_nom	240.29342587758	Nominal RA [deg]
dec_nom	-0.49556853734068	Nominal Dec [deg]
roll_nom	212.20843874794	Nominal Roll [deg]
revision	2	Processing version of data
ontime	37075.918154538	Sum of GTIs [s]
livetime	36591.493988955	Livetime [s]
ontime0	37082.200285196	Sum of GTIs [s]
ontime1	37075.918154538	Sum of GTIs [s]
ontime2	37079.05921483	Sum of GTIs [s]
ontime3	37075.918154538	Sum of GTIs [s]
ontime6	37082.200285196	Sum of GTIs [s]
l2events	95785	Number of level 2 events



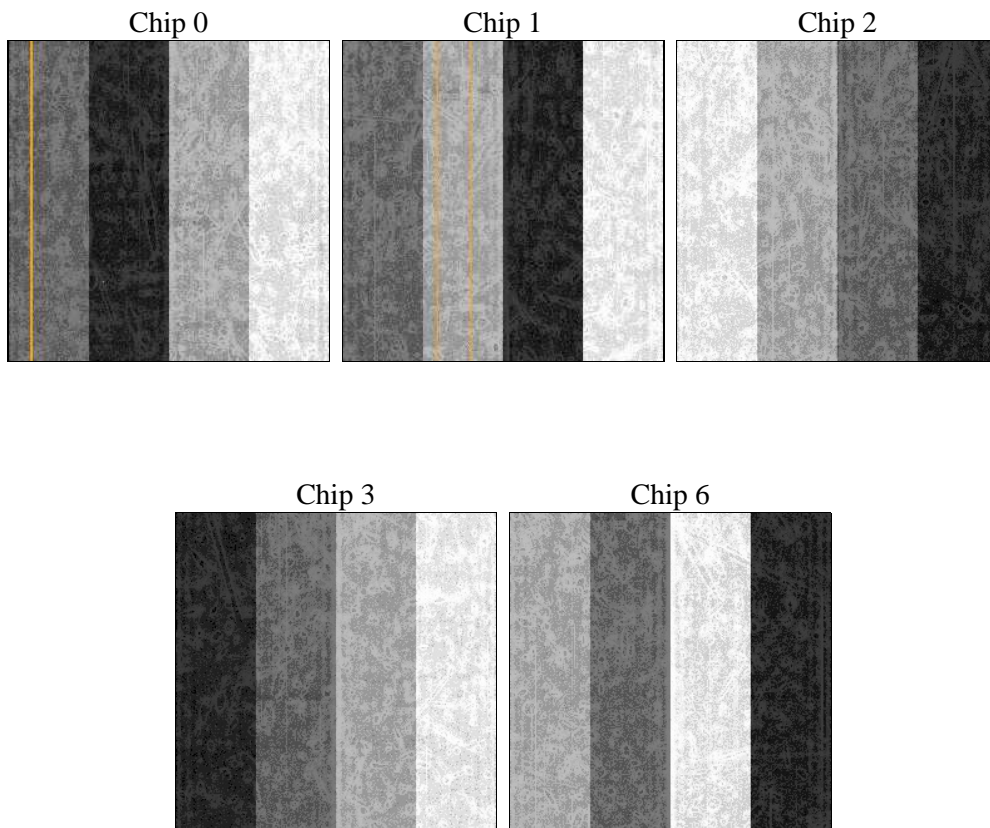
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	37075.918154538	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	37082.200285196	Sum of GTIs [s]
date	2014-12-12T01:36:42	Date and time of file creation	ontime1	37075.918154538	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	37079.05921483	Sum of GTIs [s]
			ontime3	37075.918154538	Sum of GTIs [s]
			ontime6	37082.200285196	Sum of GTIs [s]
			l1events	907041	Number of level 1 events

2.1.4 Events

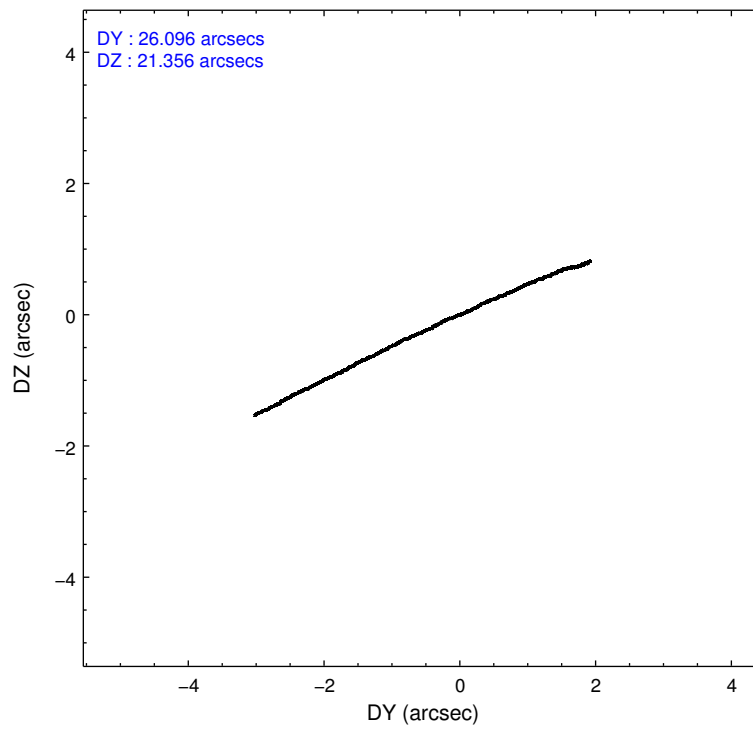
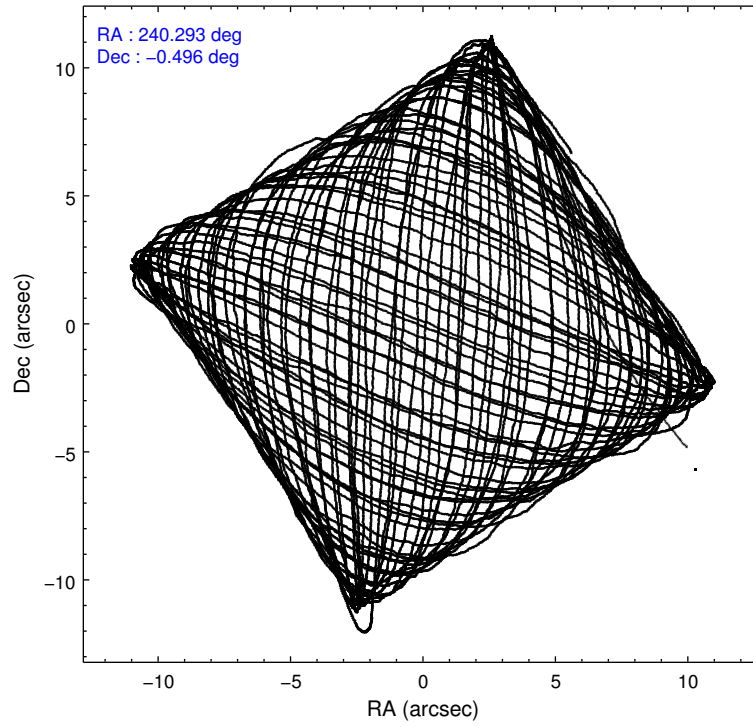
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	165531	173168	185670	185702	196970
rejected events	143284	146200	163576	161367	161658
rejected %	86%	84%	88%	86%	82%

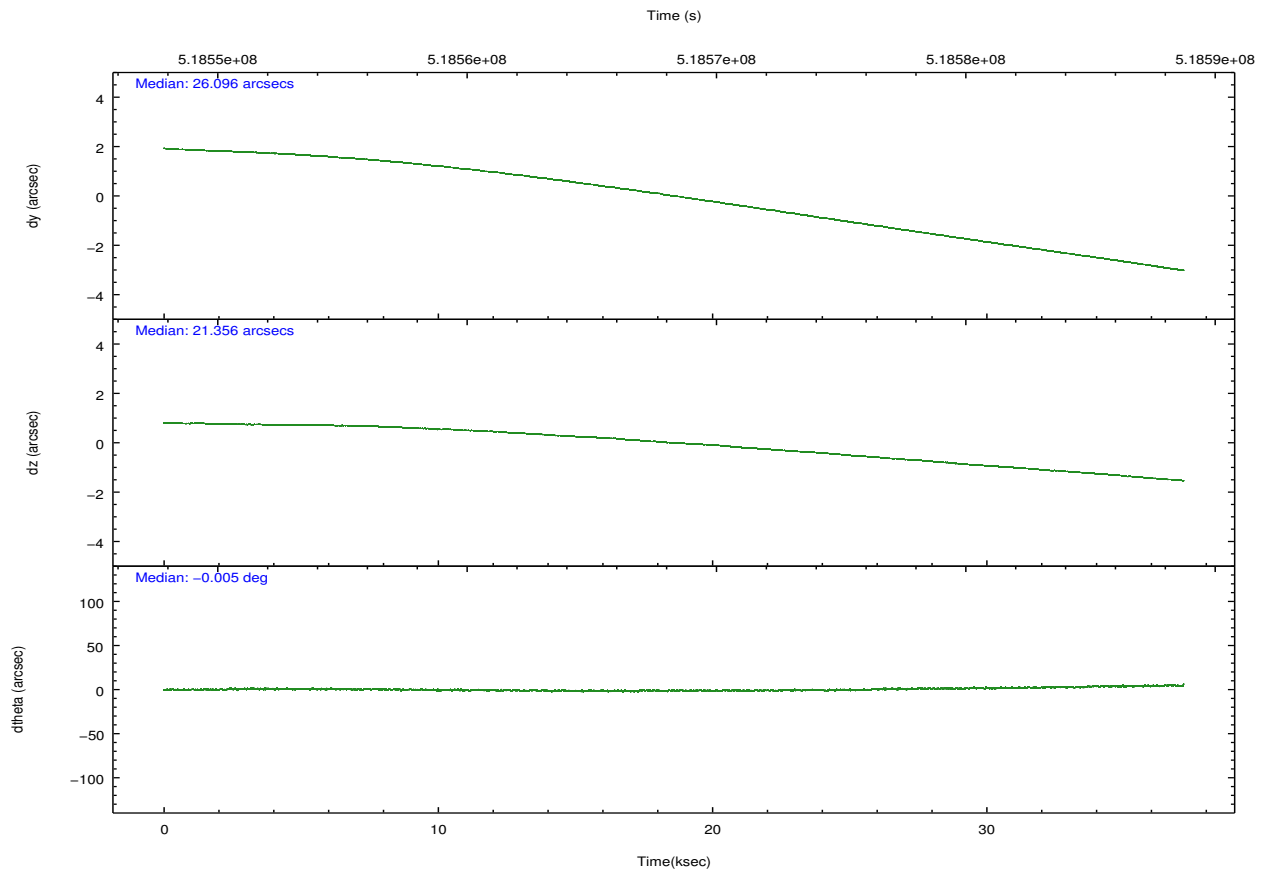
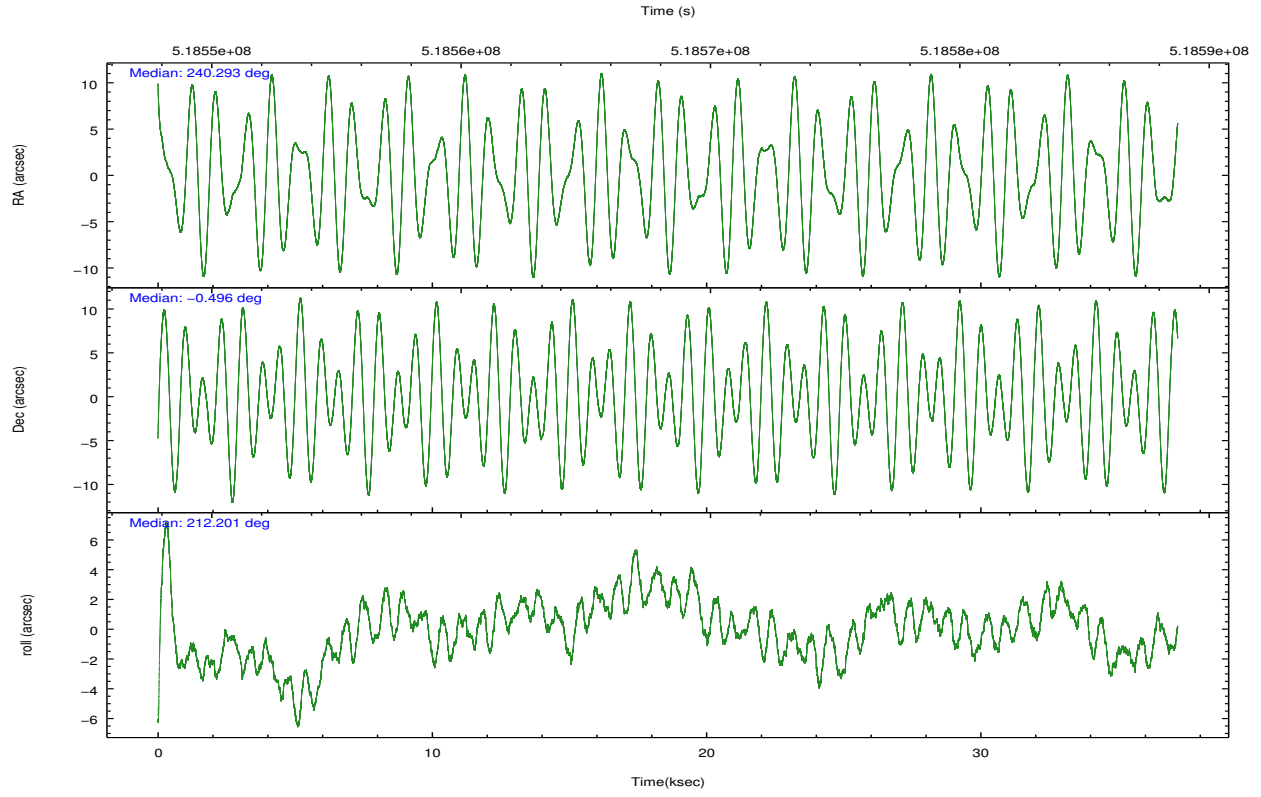
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8373	11709	8717	10894	20588
	5%	6%	4%	5%	10%
grade 1 events	106	108	113	121	127
	0%	0%	0%	0%	0%
grade 2 events	5275	5548	5071	4681	5200
	3%	3%	2%	2%	2%
grade 3 events	2212	2202	2111	2227	2189
	1%	1%	1%	1%	1%
grade 4 events	2082	2253	2200	2183	2167
	1%	1%	1%	1%	1%
grade 5 events	8135	8741	7572	9713	9141
	4%	5%	4%	5%	4%
grade 6 events	4308	5268	3999	4355	5172
	2%	3%	2%	2%	2%
grade 7 events	135040	137339	155887	151528	152386
	81%	79%	83%	81%	77%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	240.306145	240.293425877584	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.471209	-0.495568537340677	CCD I3 on	Y	Y
[deg] Pointing Roll	211.999867	212.2084387479416	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	O1	Y
[mm] SIM translation stage pos	-228.592463	-228.6040615331368	CCD S3 on	N	N
[mm] SIM translation stage offset	-5	-4.98839146979293	CCD S4 on	N	N
[s] Observation start time (MET)	518549872.184000	518548771.145	CCD S5 on	N	N
Observation start date	2014-06-07T17:36:45	2014-06-07T17:19:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	518586872.184000	518587661.69715	On-chip summing requested	N	N
Observation end date	2014-06-08T03:53:25	2014-06-08T04:07:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





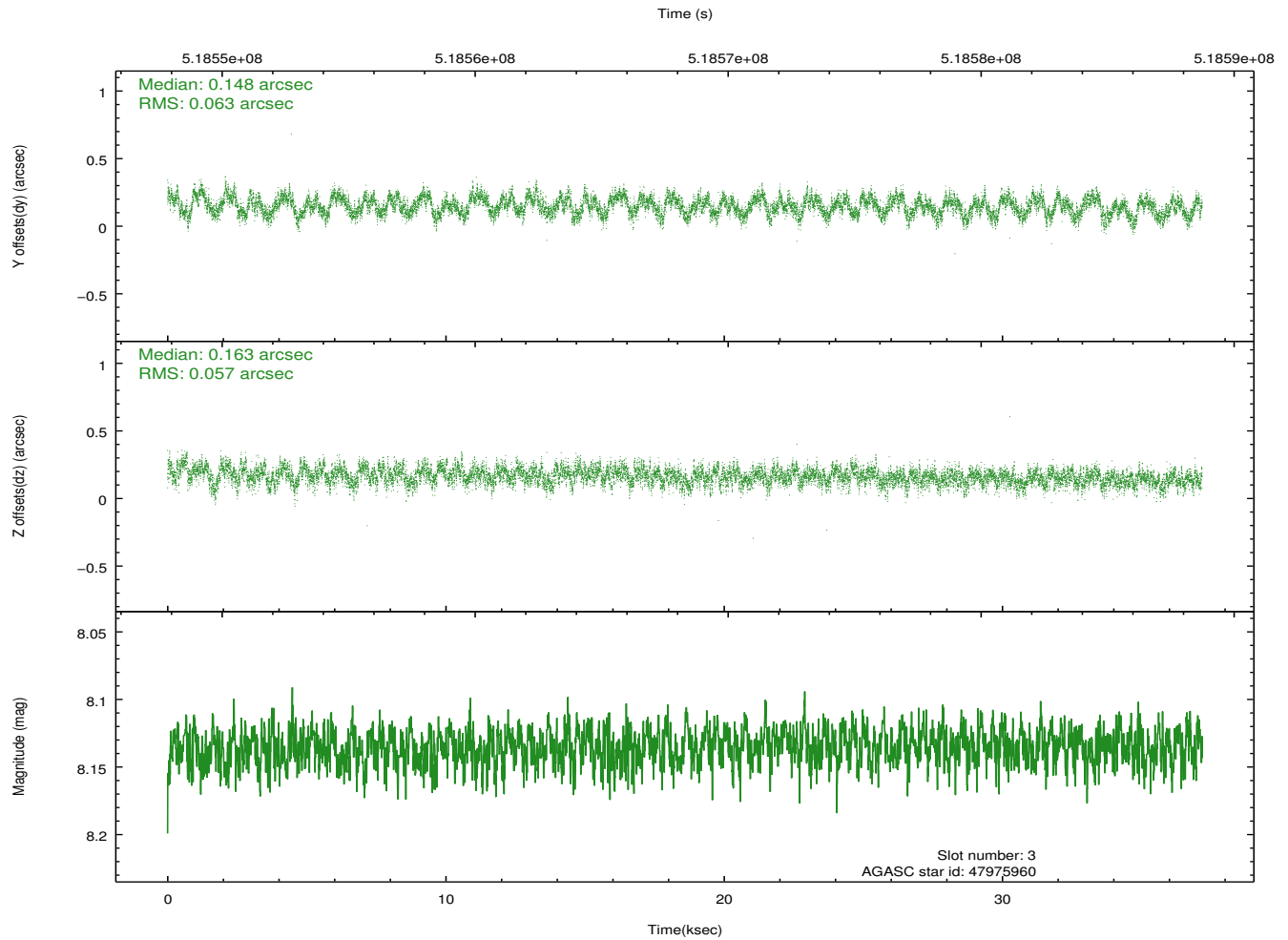
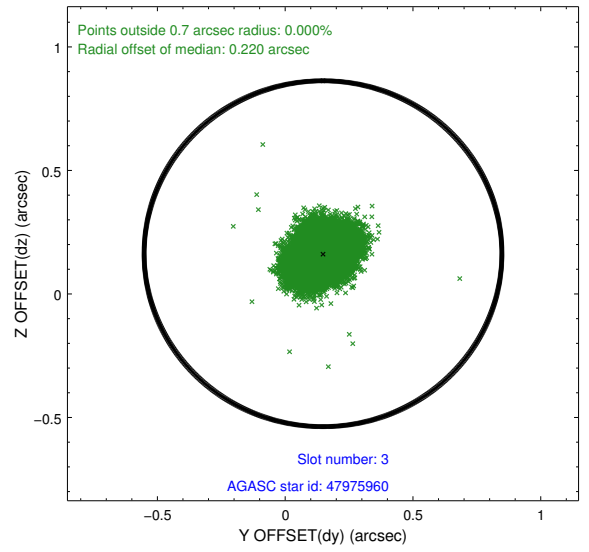
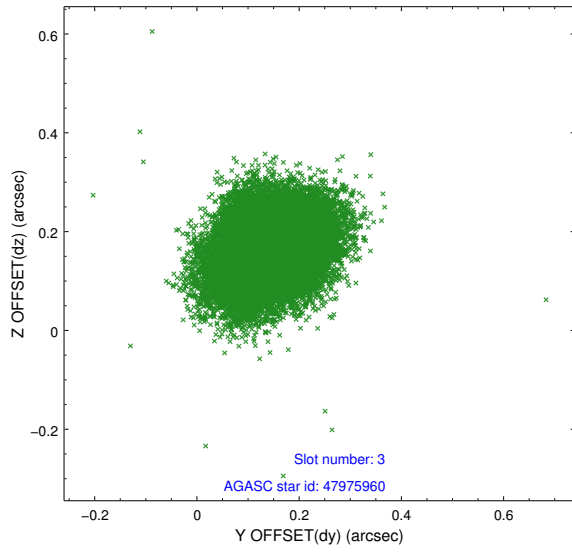
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.20	9068	0.086	-0.041	0.025	0.037	0.000000	0.000000	913.27	-947.36
1	FID		ACIS-I-5	7.19	9069	-0.379	0.039	0.024	0.038	0.000000	0.000000	-1835.38	950.05
2	FID		ACIS-I-6	7.20	9069	0.208	0.067	0.032	0.043	0.000000	0.000000	378.79	1594.72
3	GUIDE	used	47975960	8.14	18135	0.148	0.163	0.091	0.143	240.078497	0.137003	-461.88	-2290.48
4	GUIDE	used	47977112	9.36	18128	0.178	0.359	0.134	0.241	240.535952	0.045724	-1686.71	-1139.39
5	GUIDE	used	657852304	9.21	18129	-0.148	-0.038	0.157	0.261	239.558470	-0.482646	2305.05	-1391.10
6	GUIDE	used	659562016	9.31	18123	0.078	-0.247	0.115	0.183	240.398978	-0.530821	-168.52	358.24
7	GUIDE	used	659562568	7.59	18136	-0.275	-0.241	0.119	0.181	240.527634	-0.821107	-8.15	1490.82

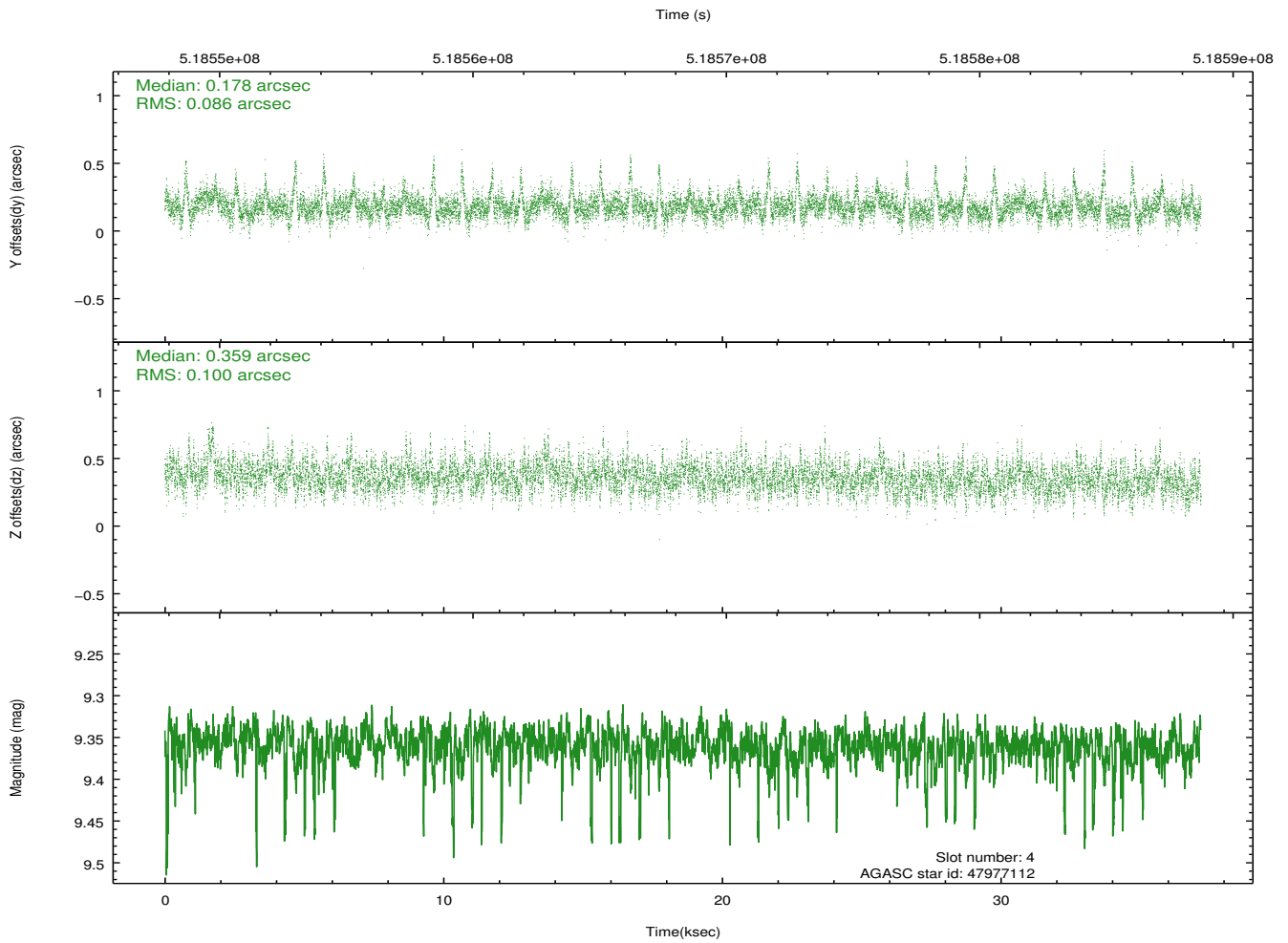
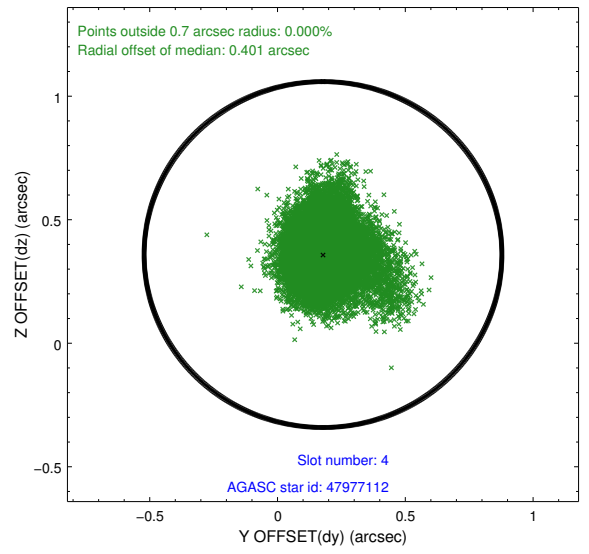
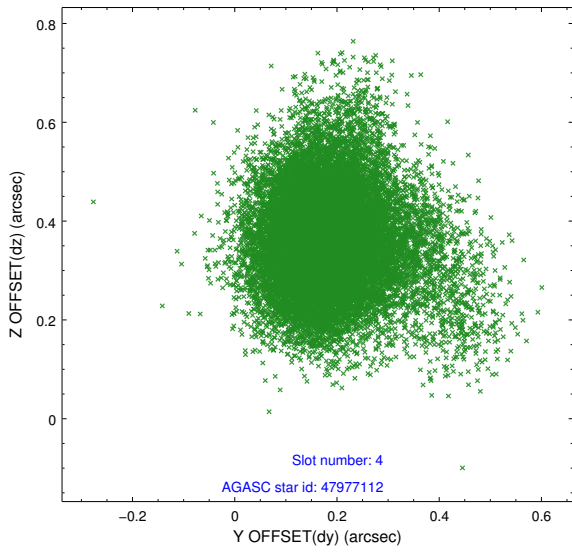
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2.4 Star Slots

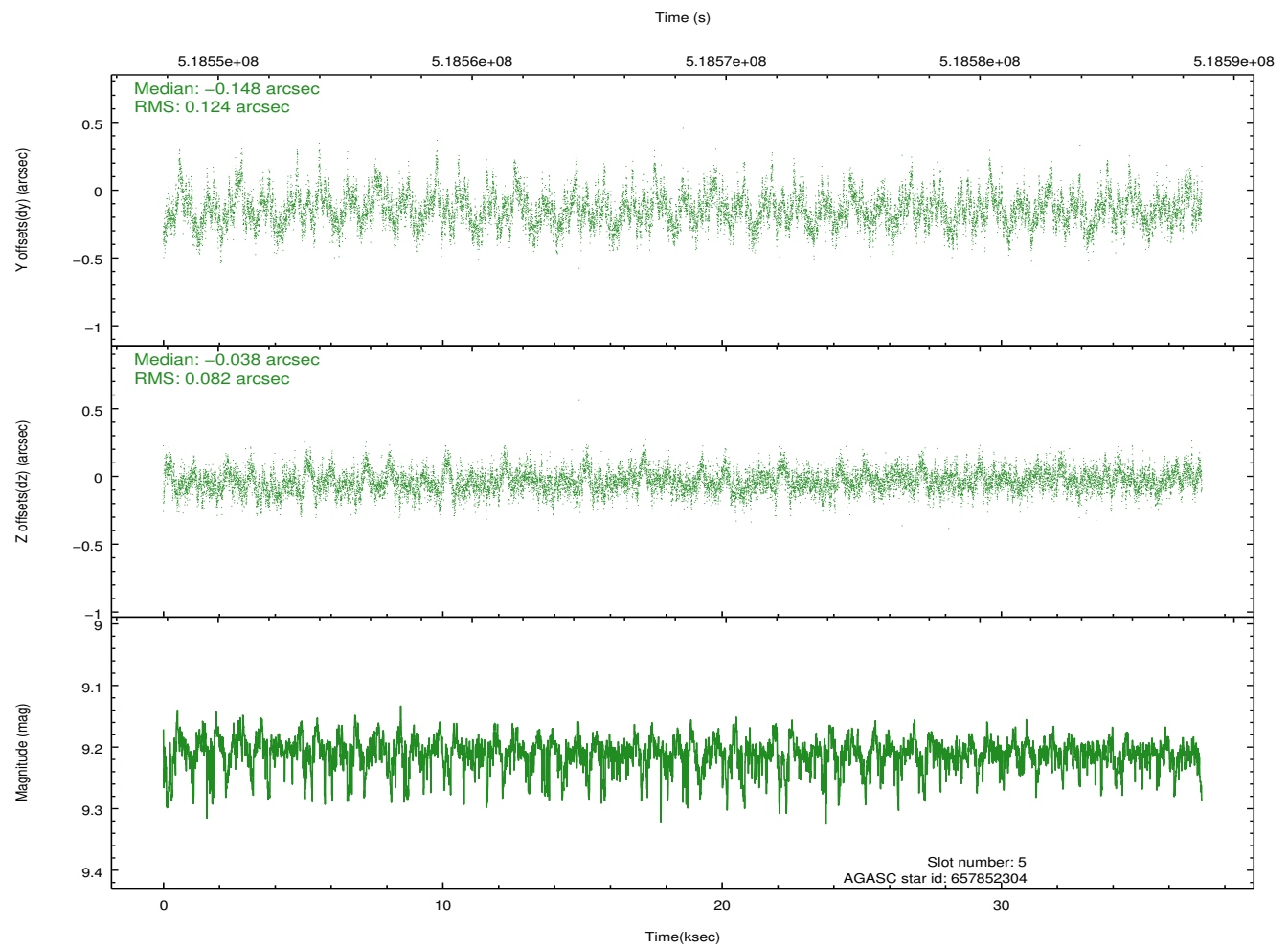
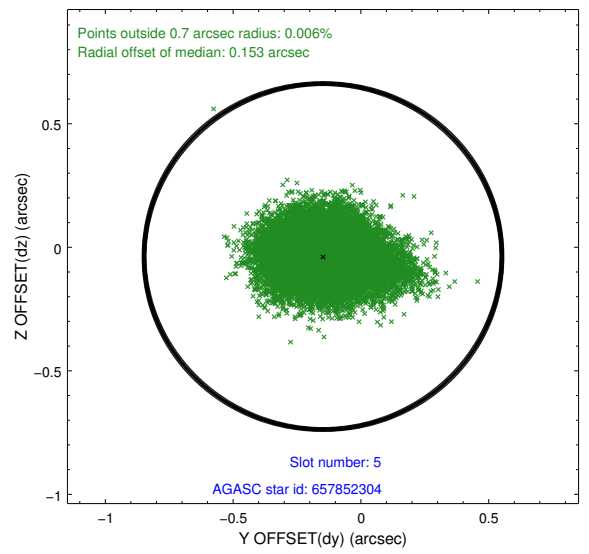
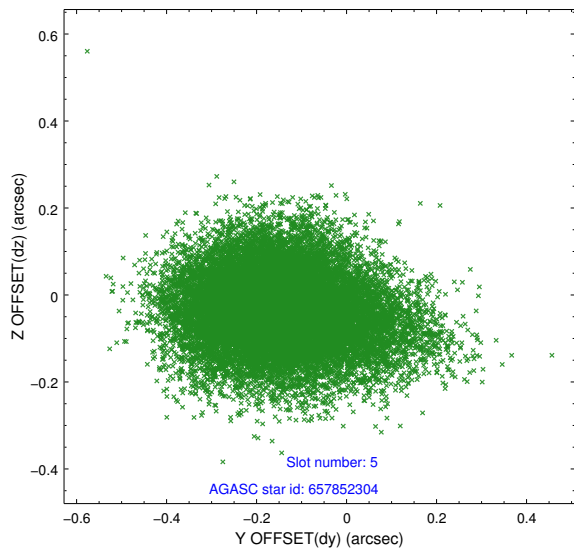
2.4.1 Slot 3



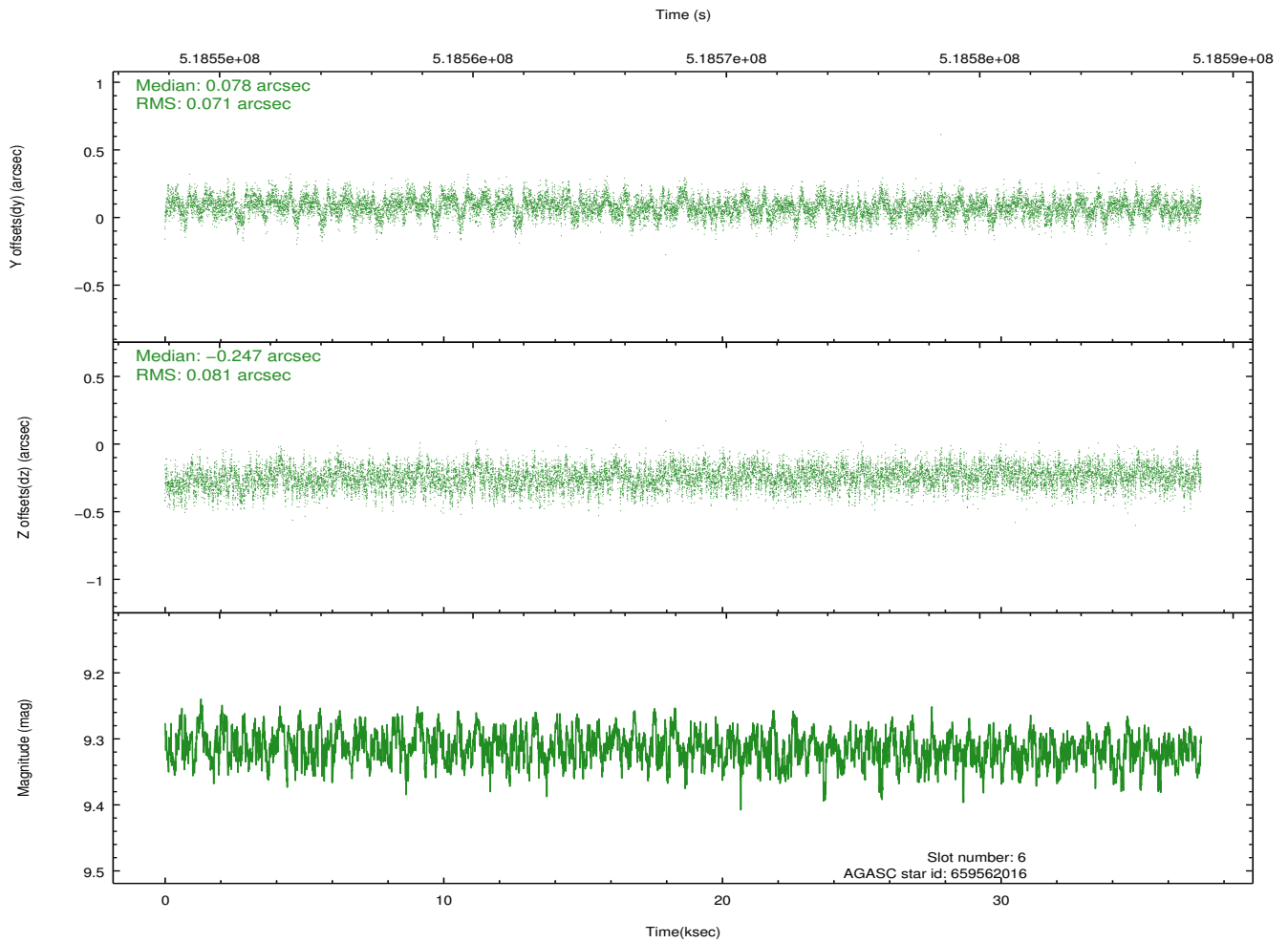
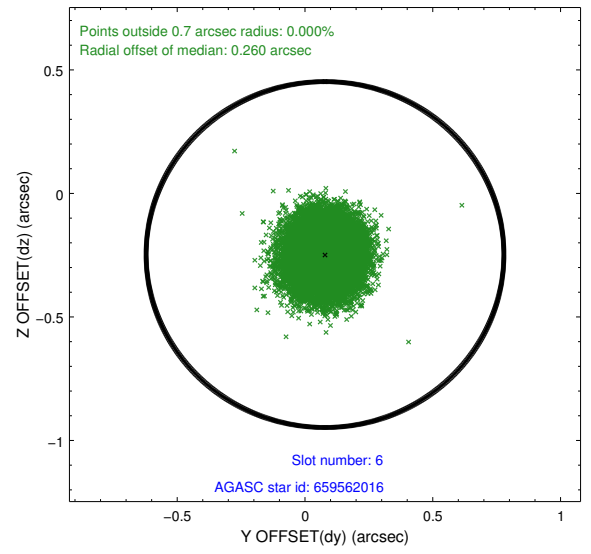
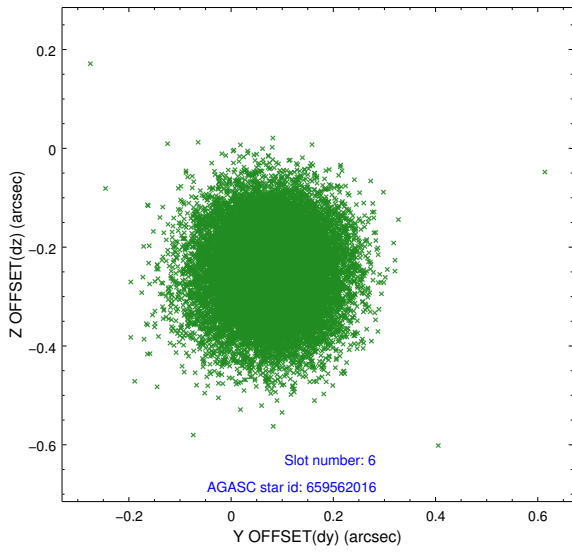
2.4.2 Slot 4



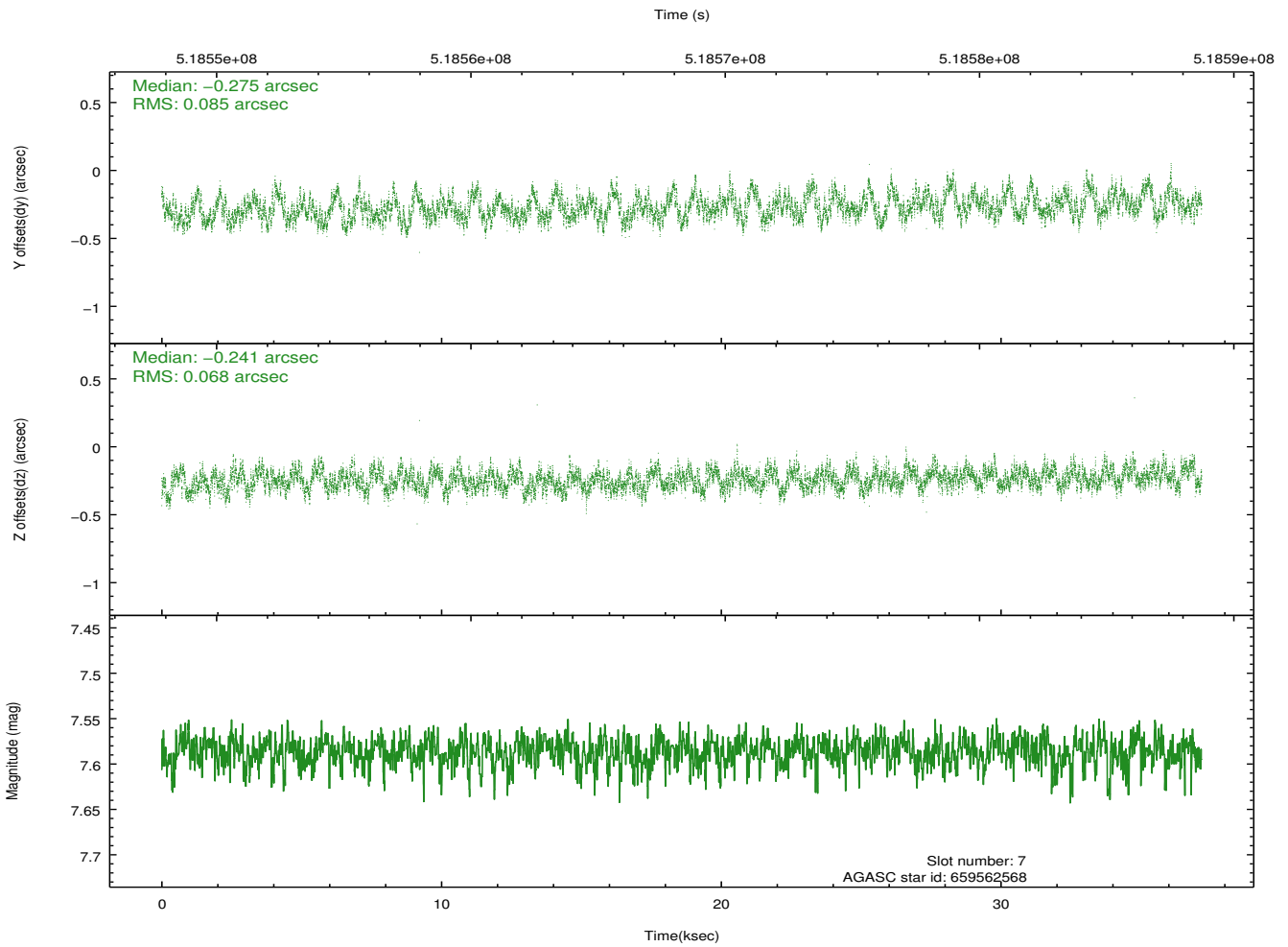
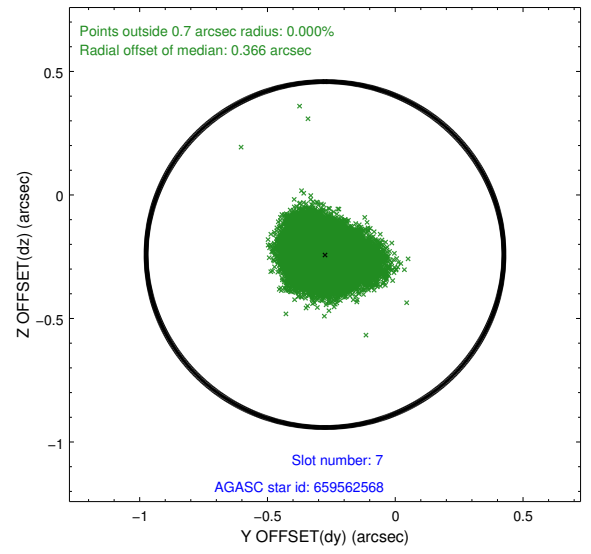
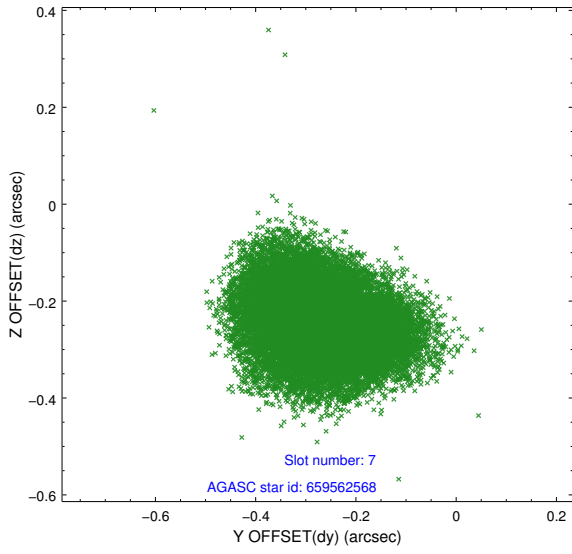
2.4.3 Slot 5



2.4.4 Slot 6

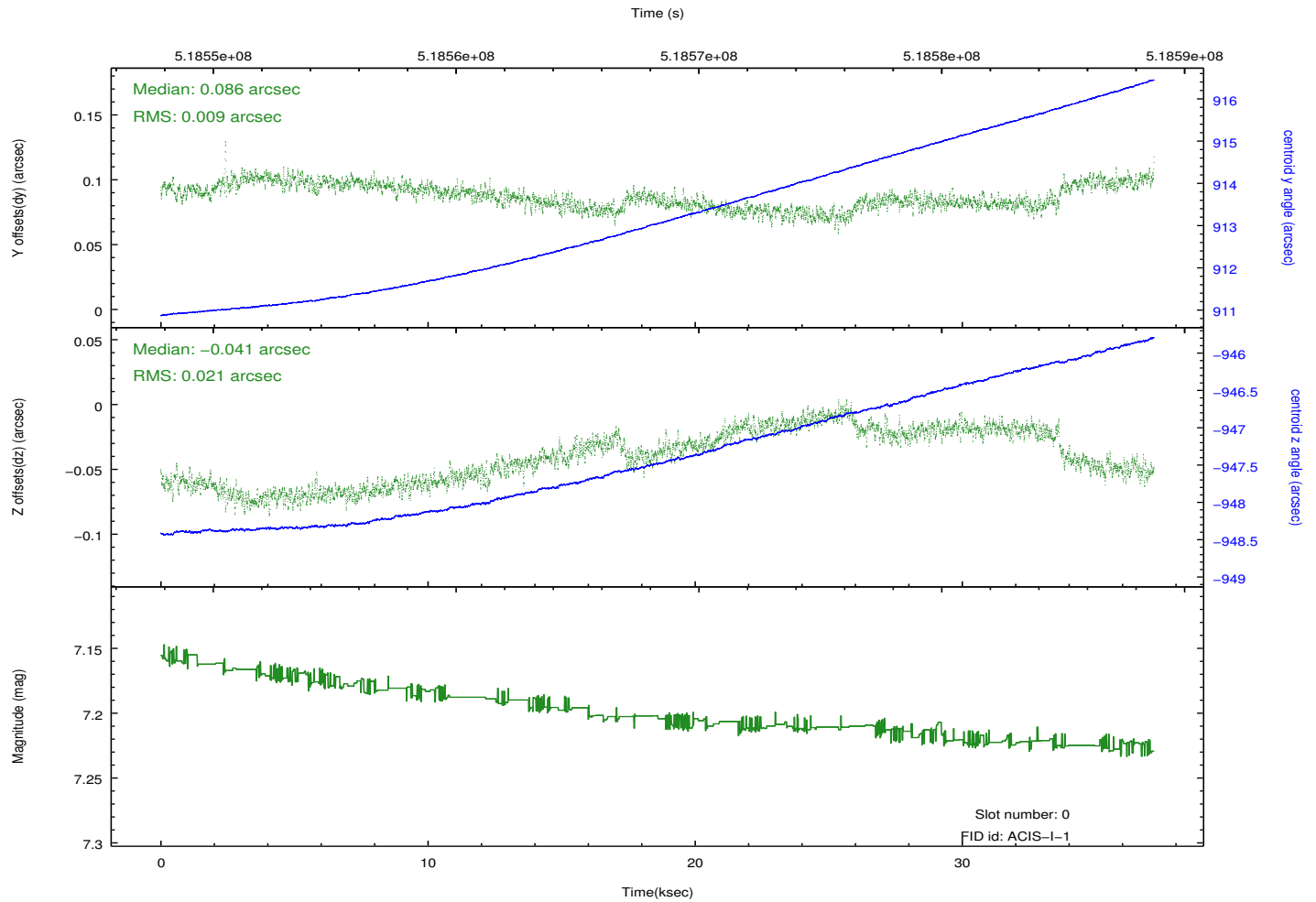
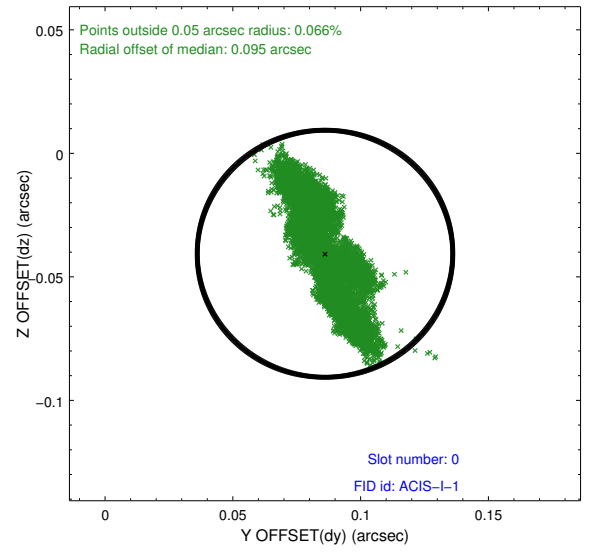
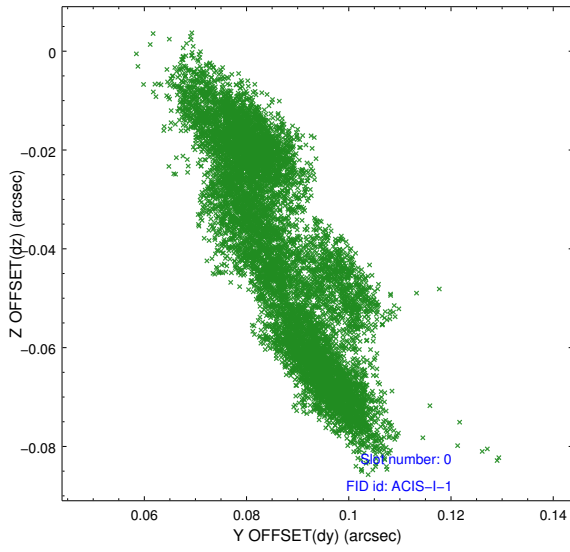


2.4.5 Slot 7

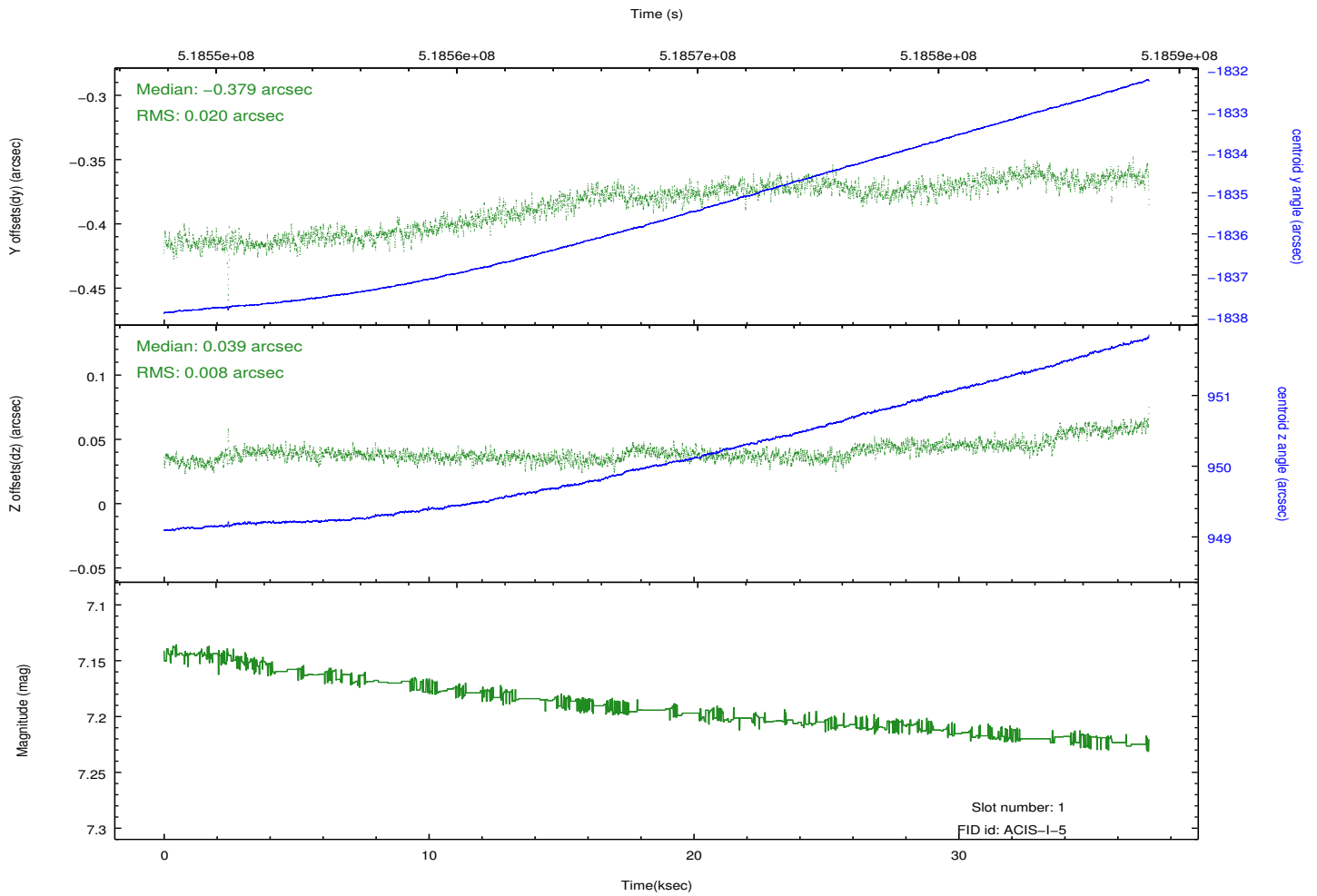
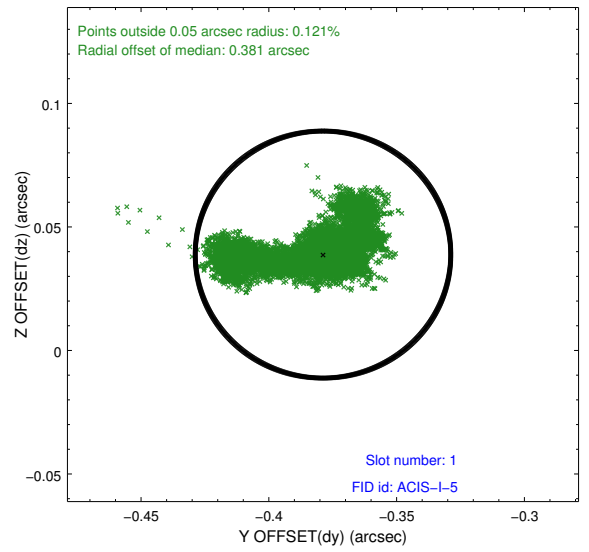
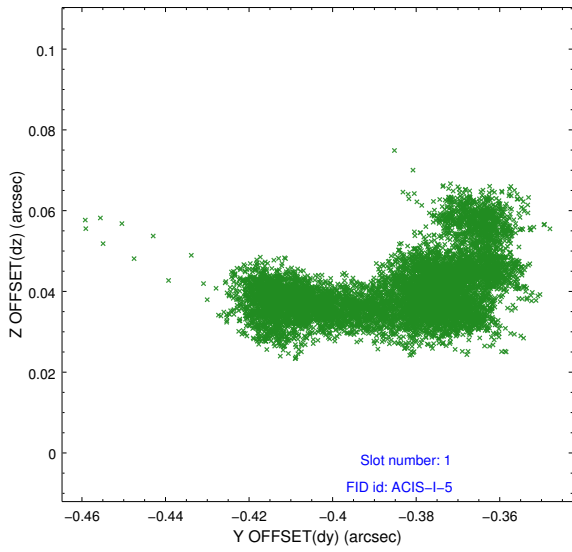


2.5 FID Slots

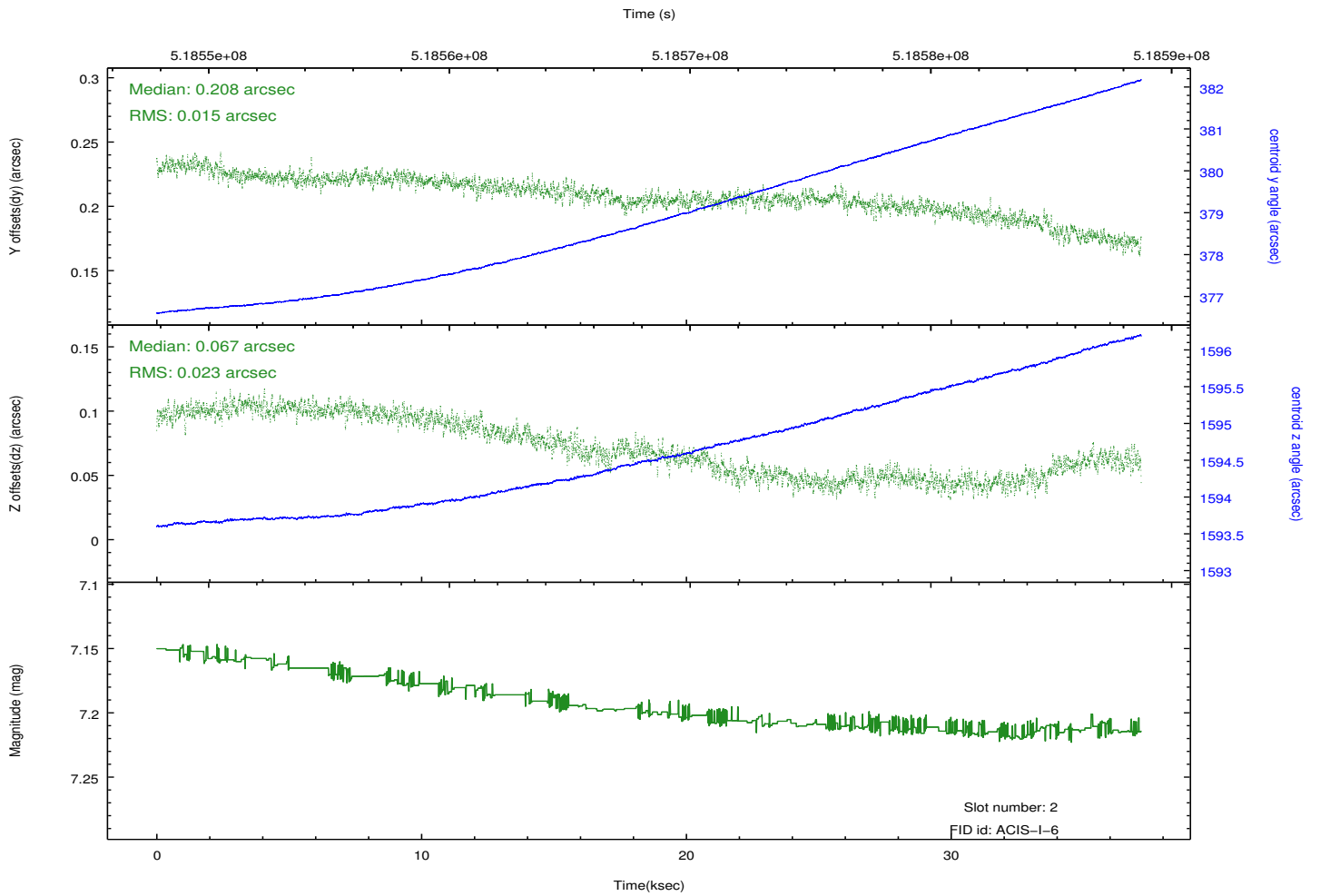
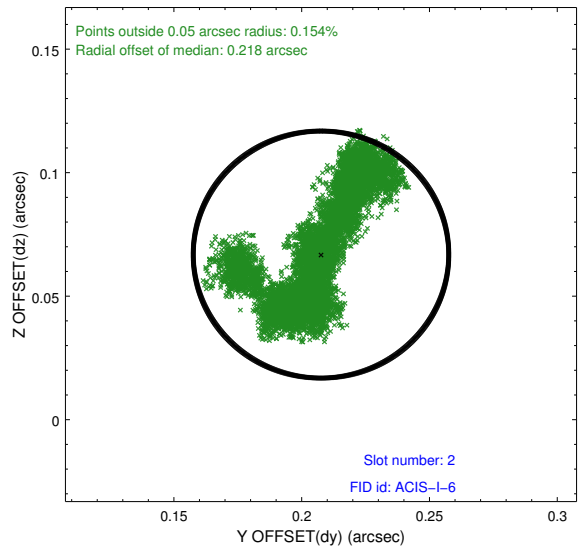
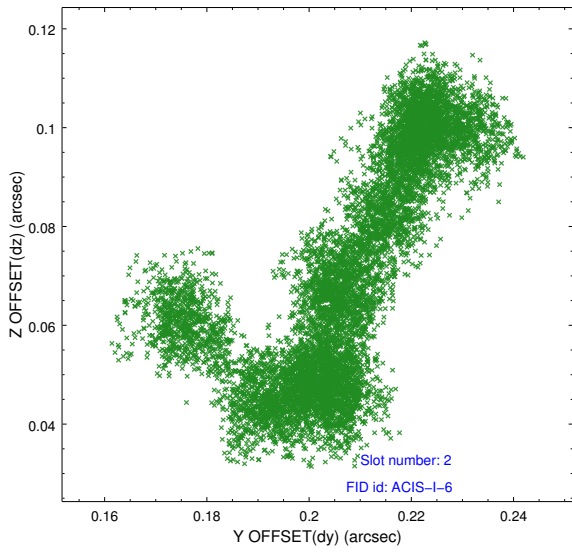
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.075918154538

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.