

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13881 - L2 Version 2
Chandra X-Ray Center

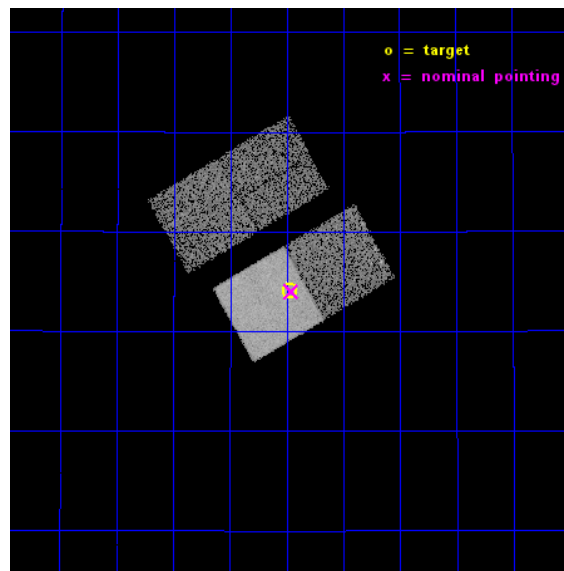
L2 Processing Date : Nov 27 2014

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1 Front

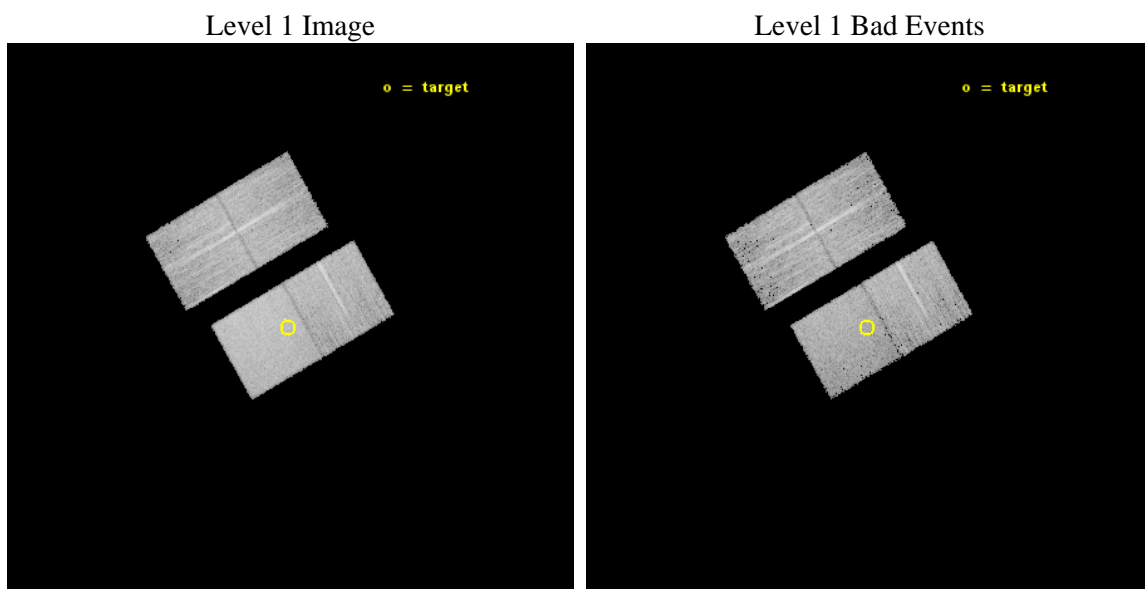
seq_num	702606	Sequence number
obs_id	13881	Observation id
title	Extending the Chandra 3C Snapshot Survey: Radio Galaxies with 0.3	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3c46	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.867917	Observer's specified target RA [deg]
dec_targ	37.901667	Observer's specified target Dec [deg]
ra_nom	23.864478194365	Nominal RA [deg]
dec_nom	37.900263183596	Nominal Dec [deg]
roll_nom	150.13937161273	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12079.617318213	Sum of GTIs [s]
livetime	11921.788225066	Livetime [s]
ontime2	12079.494198203	Sum of GTIs [s]
ontime3	12079.535238206	Sum of GTIs [s]
ontime6	12076.435267866	Sum of GTIs [s]
ontime7	12079.617318213	Sum of GTIs [s]
l2events	58505	Number of level 2 events



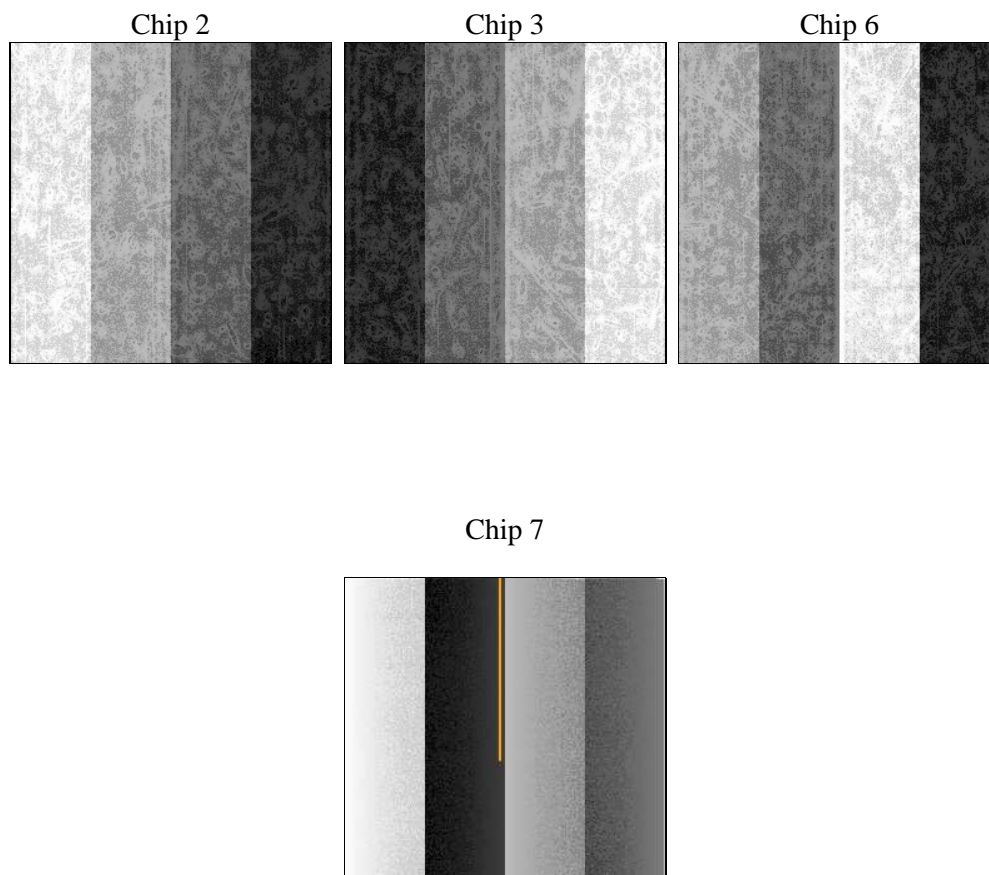
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	12079.617318213	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	12079.494198203	Sum of GTIs [s]
date	2014-11-27T16:38:47	Date and time of file creation	ontime3	12079.535238206	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12076.435267866	Sum of GTIs [s]
			ontime7	12079.617318213	Sum of GTIs [s]
			l1events	288583	Number of level 1 events

2.1.4 Events

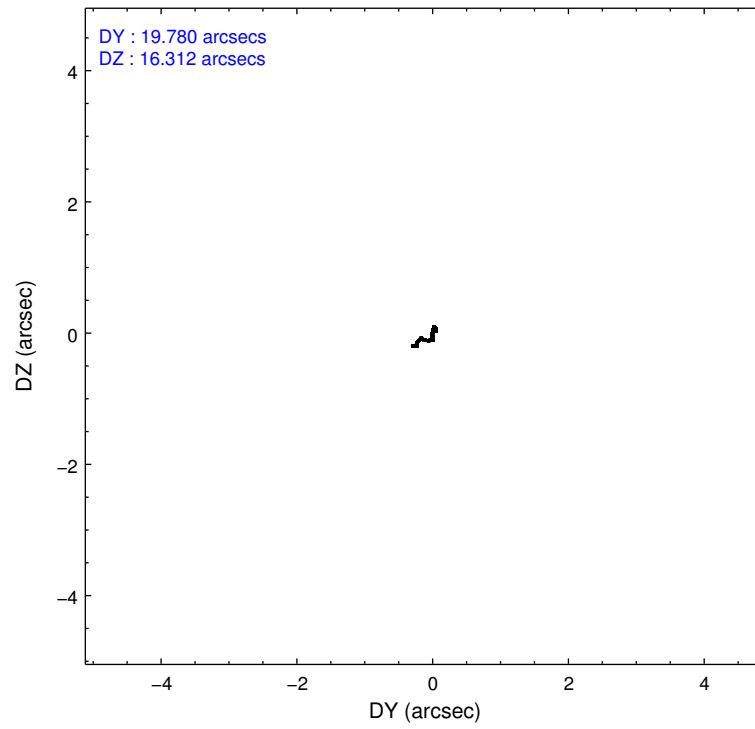
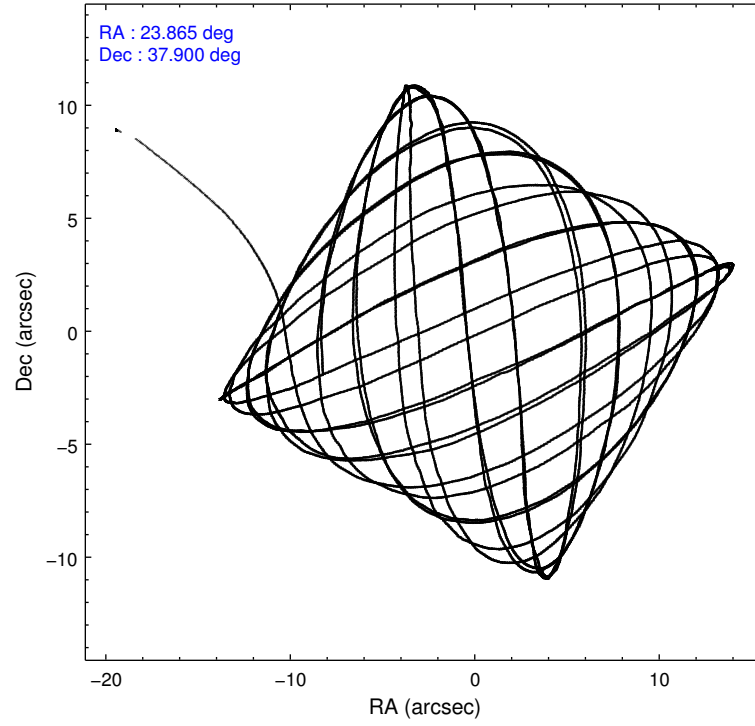
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	64682	66490	67798	89613
rejected events	56950	59164	59248	50211
rejected %	88%	88%	87%	56%

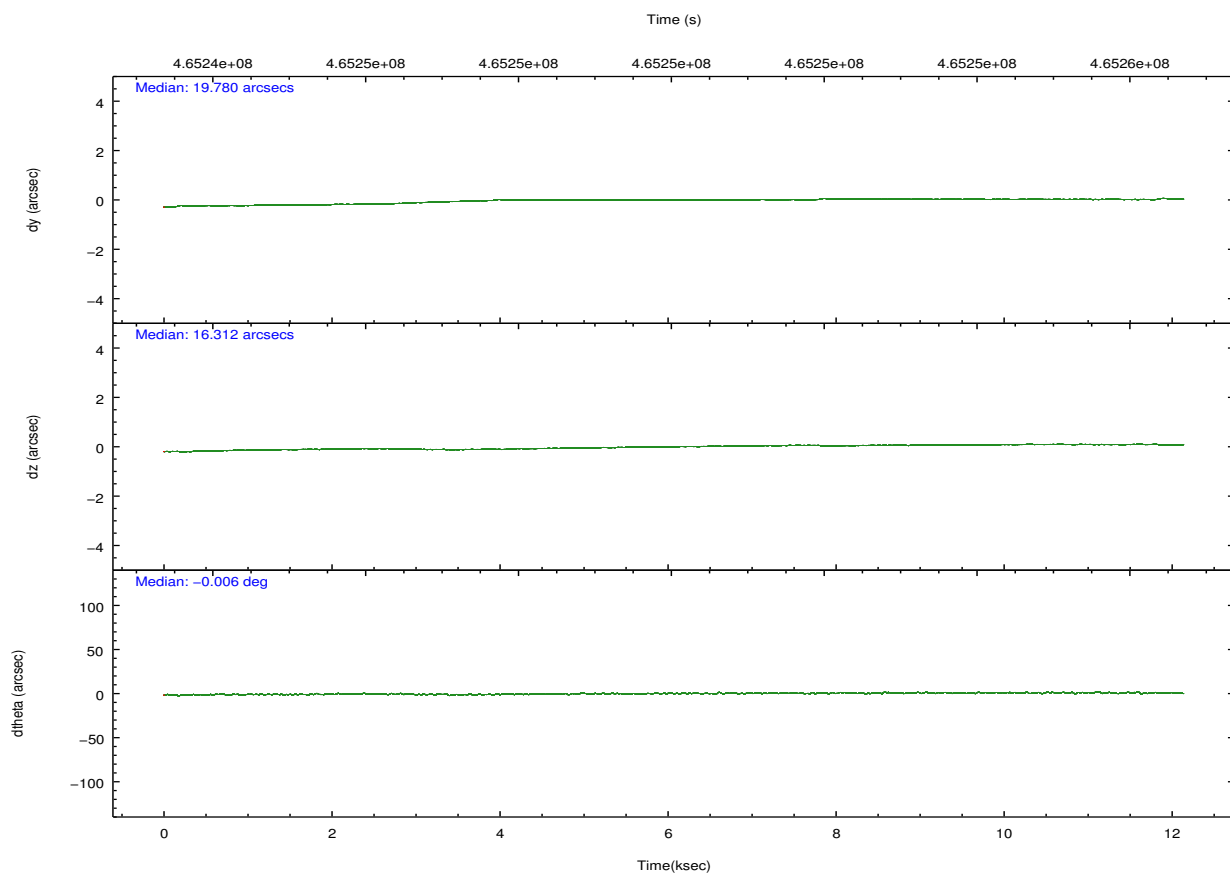
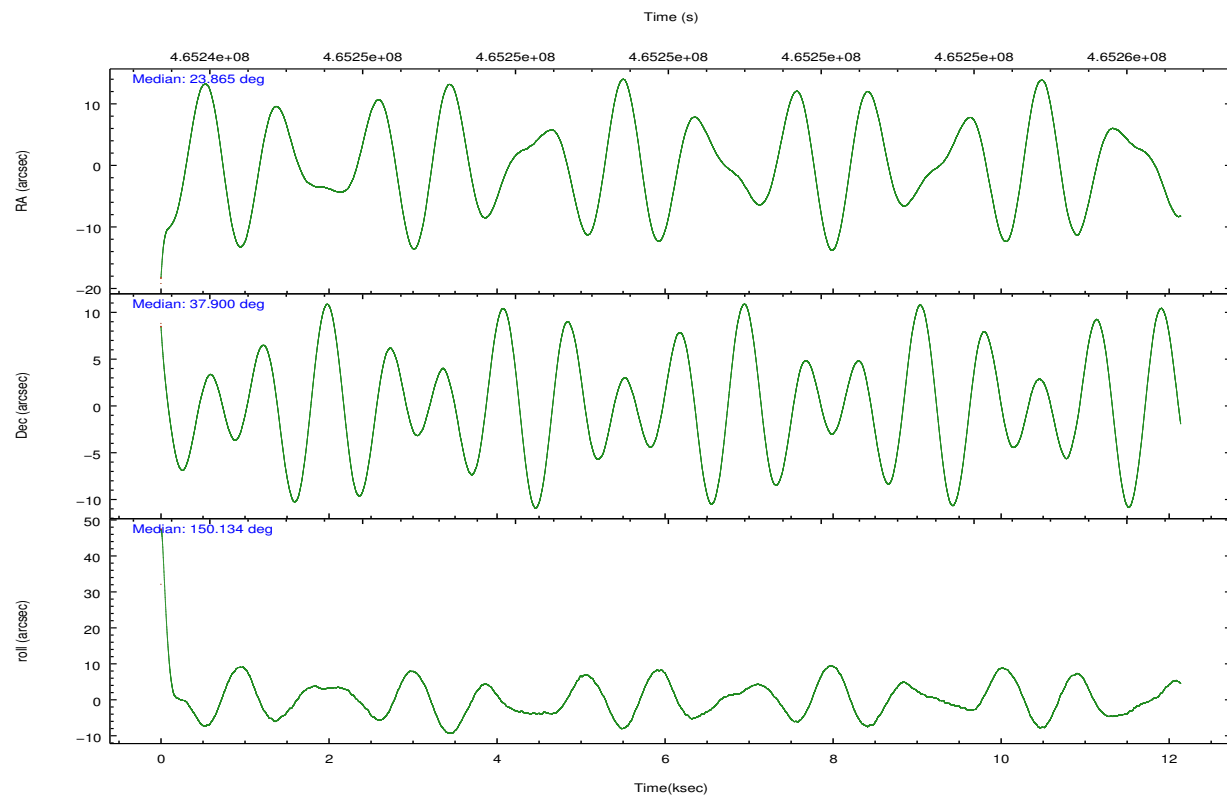
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2866	2559	3080	3628
	4%	3%	4%	4%
grade 1 events	41	35	45	107
	0%	0%	0%	0%
grade 2 events	1884	1629	1883	8115
	2%	2%	2%	9%
grade 3 events	762	797	832	3414
	1%	1%	1%	3%
grade 4 events	821	779	875	3323
	1%	1%	1%	3%
grade 5 events	2783	3350	3458	9172
	4%	5%	5%	10%
grade 6 events	1400	1567	1882	20930
	2%	2%	2%	23%
grade 7 events	54125	55774	55743	40924
	83%	83%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	23.899160	23.86447819436538	CCD I2 on	O1	Y
[deg] Pointing Dec	37.900698	37.90026318359552	CCD I3 on	O2	Y
[deg] Pointing Roll	149.961390	150.1393716127305	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	465244106.184000	465242656.16595	CCD S5 on	N	N
Observation start date	2012-09-28T18:27:19	2012-09-28T18:04:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	465256106.184000	465257062.02922	On-chip summing requested	N	N
Observation end date	2012-09-28T21:47:19	2012-09-28T22:04:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



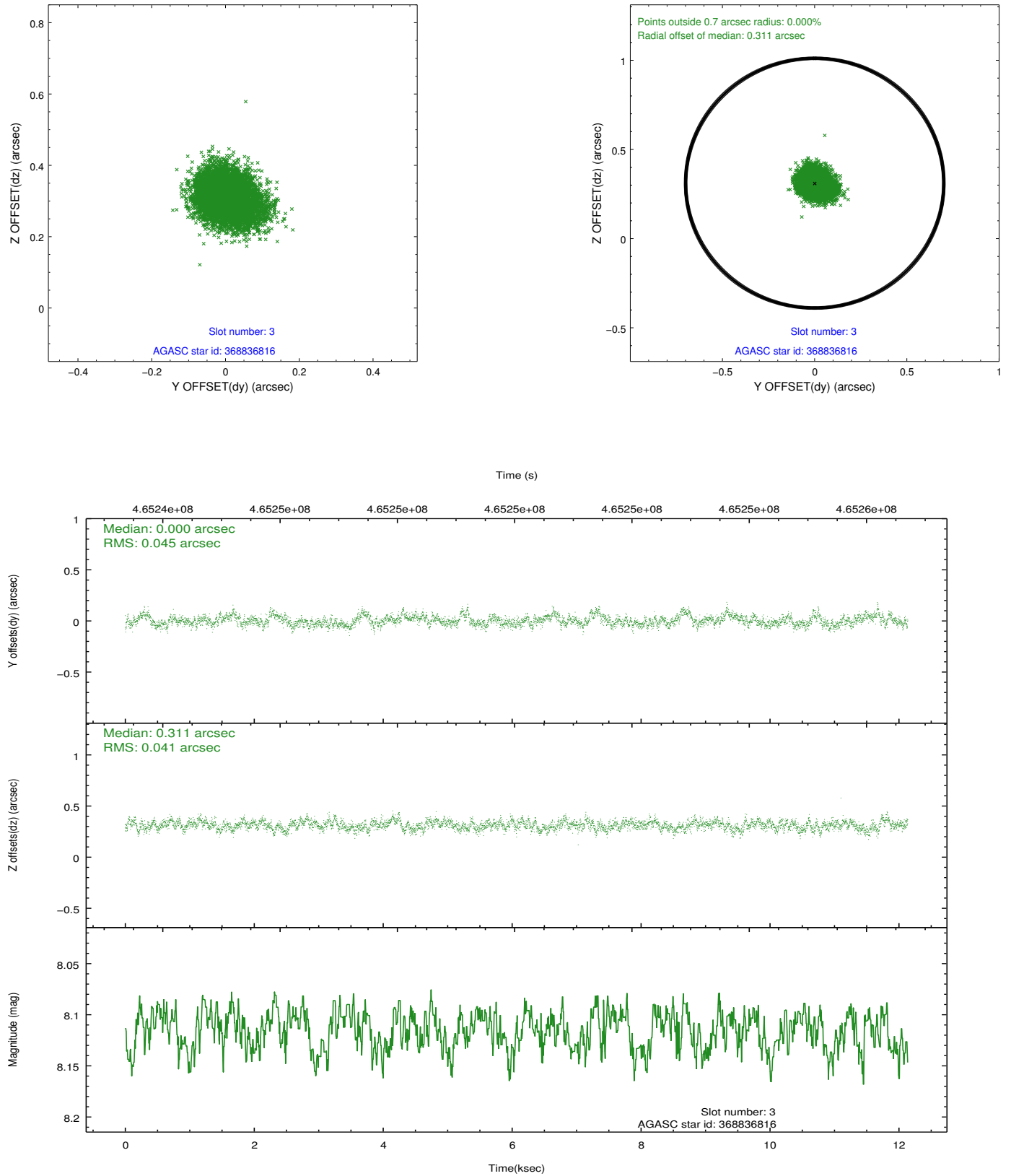


Slot Statistics

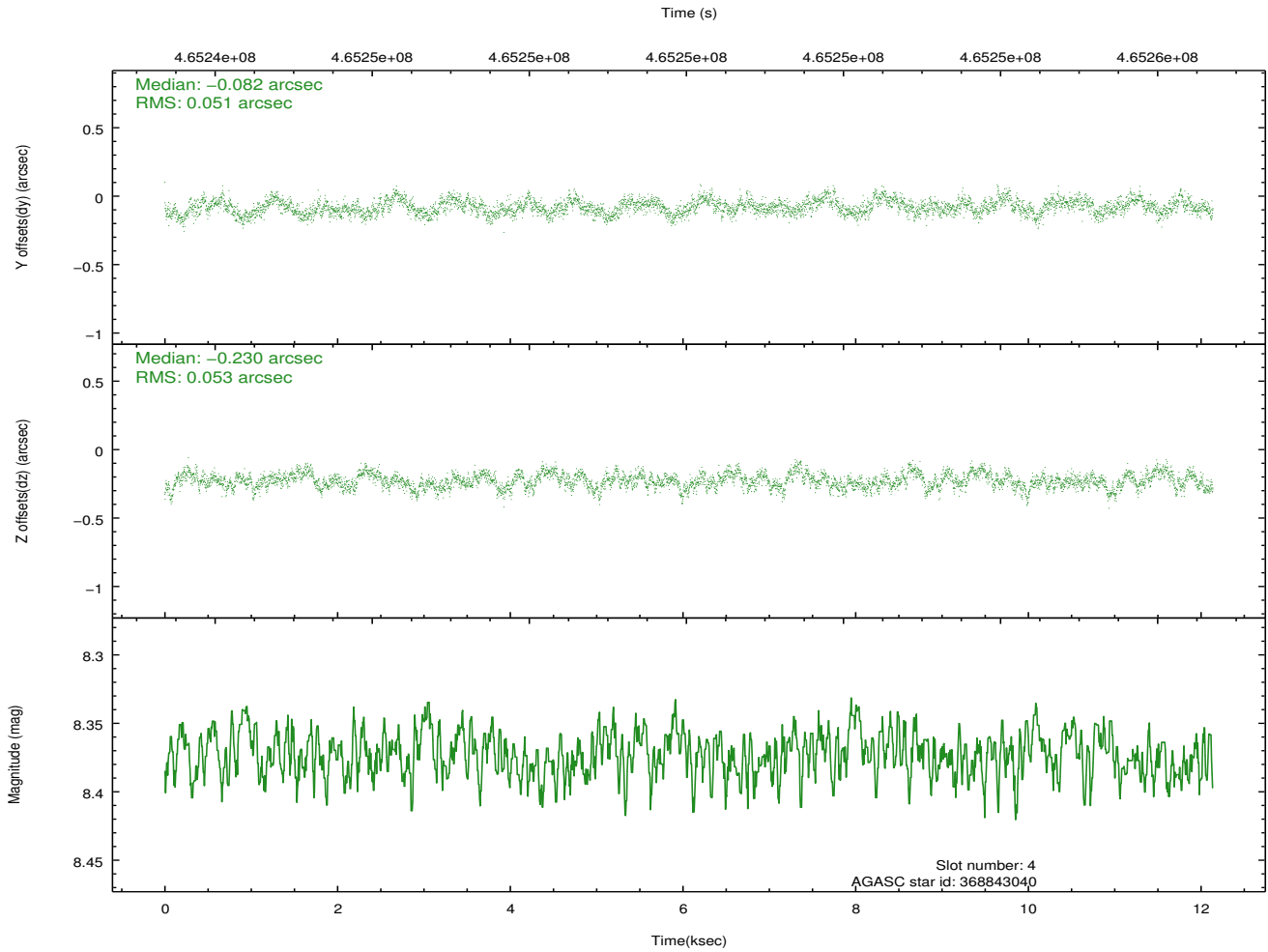
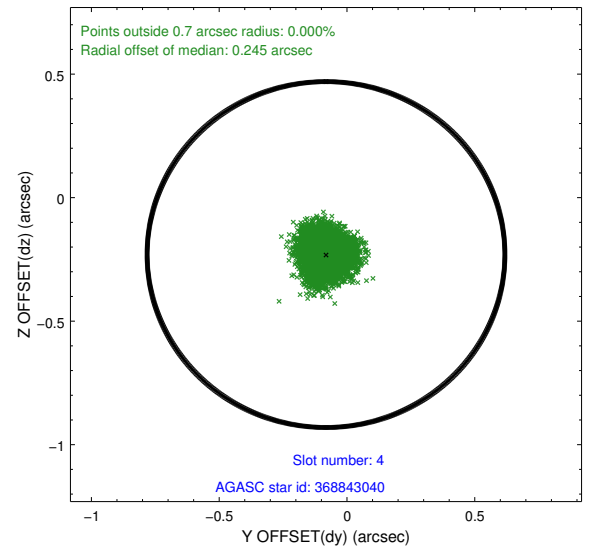
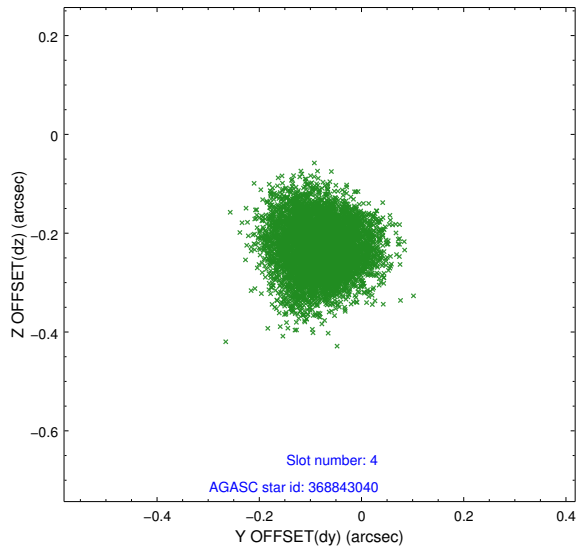
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.05	2961	0.093	-0.110	0.007	0.012	0.000000	0.000000	923.31	-1733.39
1	FID		ACIS-S-5	7.09	2961	-0.211	0.032	0.007	0.011	0.000000	0.000000	-1825.78	163.87
2	FID		ACIS-S-6	7.19	2961	0.096	0.089	0.008	0.012	0.000000	0.000000	388.41	808.36
3	GUIDE	used	368836816	8.11	5922	0.000	0.311	0.065	0.107	24.210710	38.453350	236.69	-2162.75
4	GUIDE	used	368843040	8.37	5917	-0.082	-0.230	0.079	0.124	23.210317	38.121393	2090.19	282.85
5	GUIDE	used	368844968	8.08	5919	0.185	0.144	0.073	0.112	24.460548	38.022044	-1156.80	-1177.70
6	GUIDE	used	368848304	7.02	5921	-0.112	-0.132	0.051	0.081	24.041541	37.607480	-880.00	710.06
7	GUIDE	used	302123896	9.09	5854	0.002	-0.098	0.096	0.153	24.120632	37.422910	-1408.94	1171.51

2.4 Star Slots

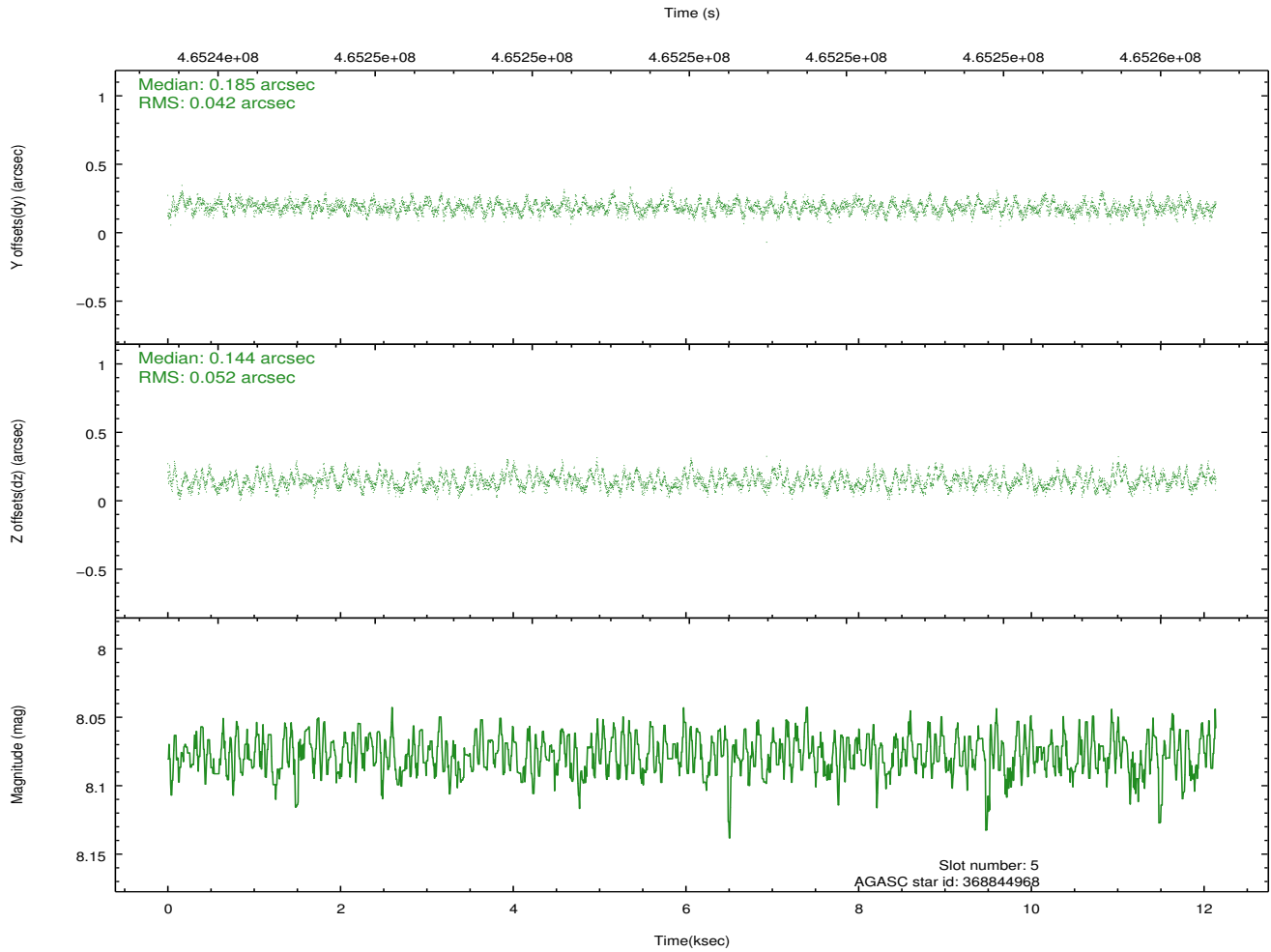
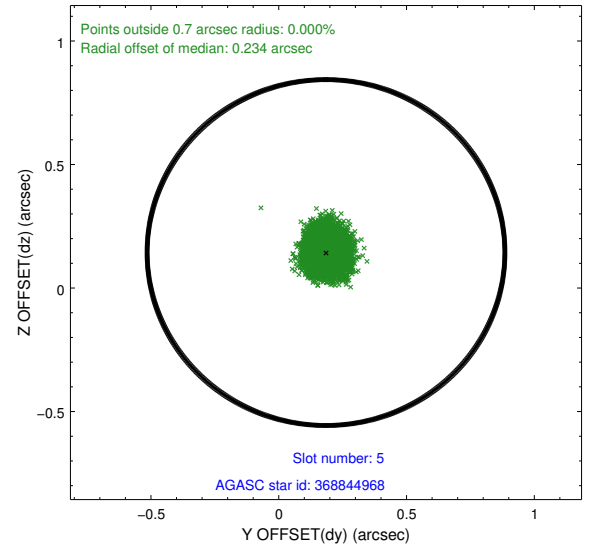
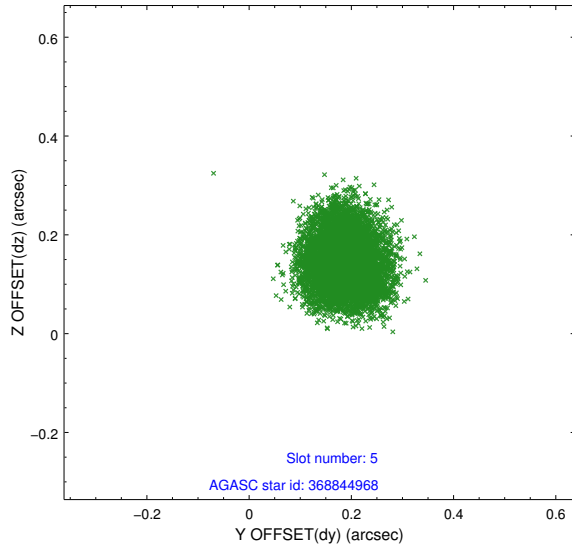
2.4.1 Slot 3



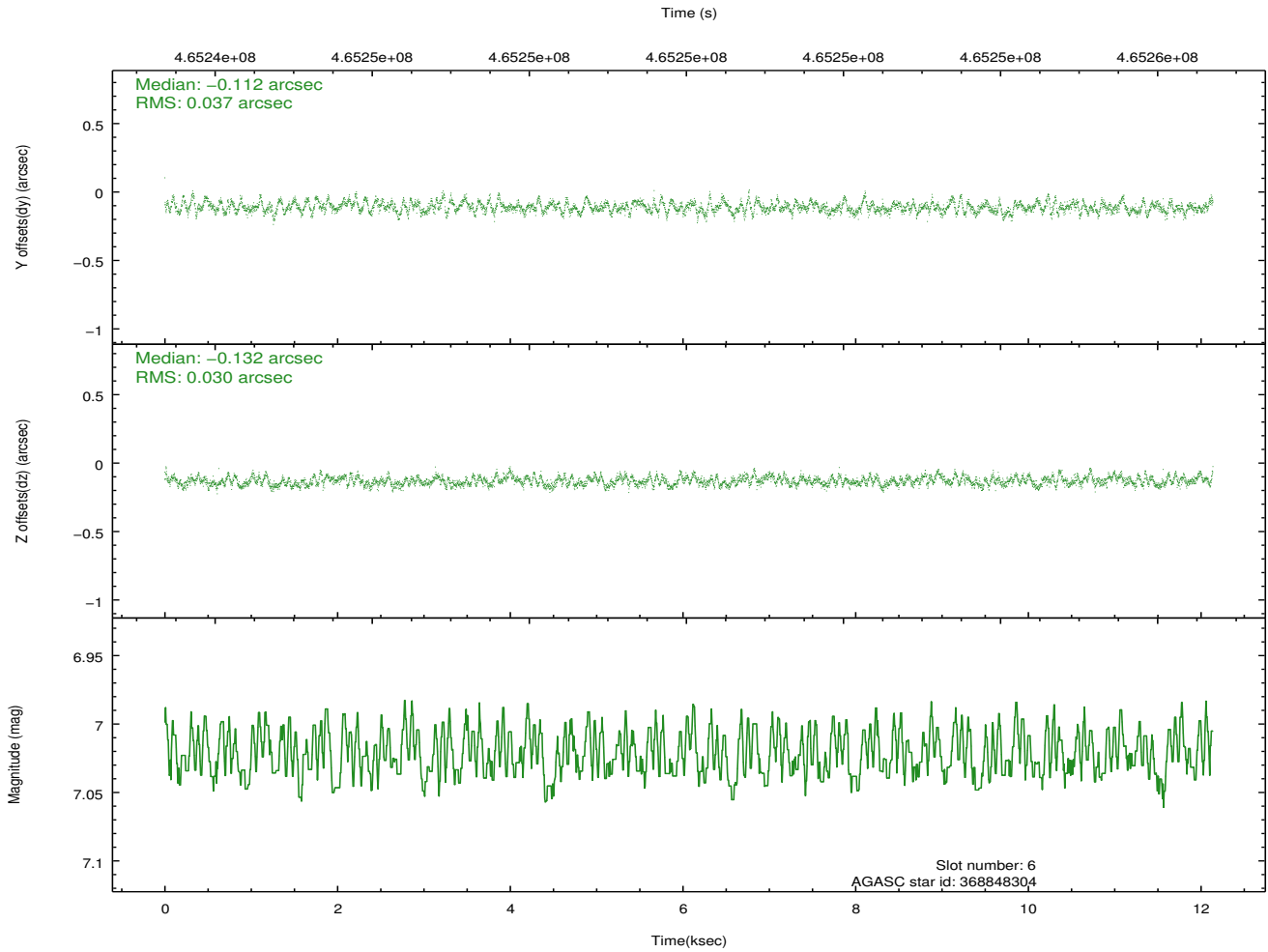
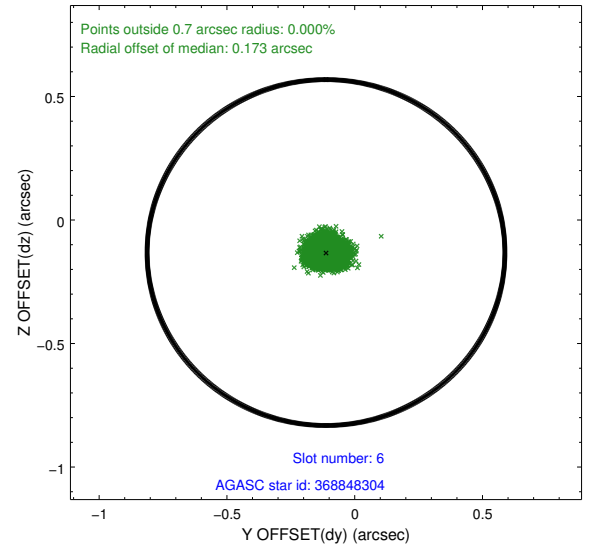
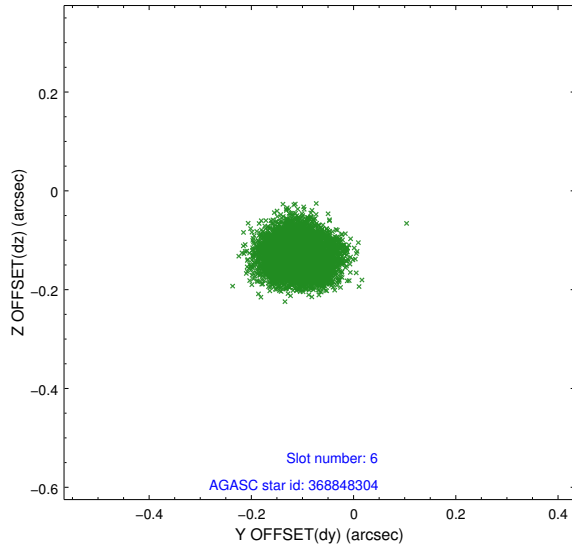
2.4.2 Slot 4



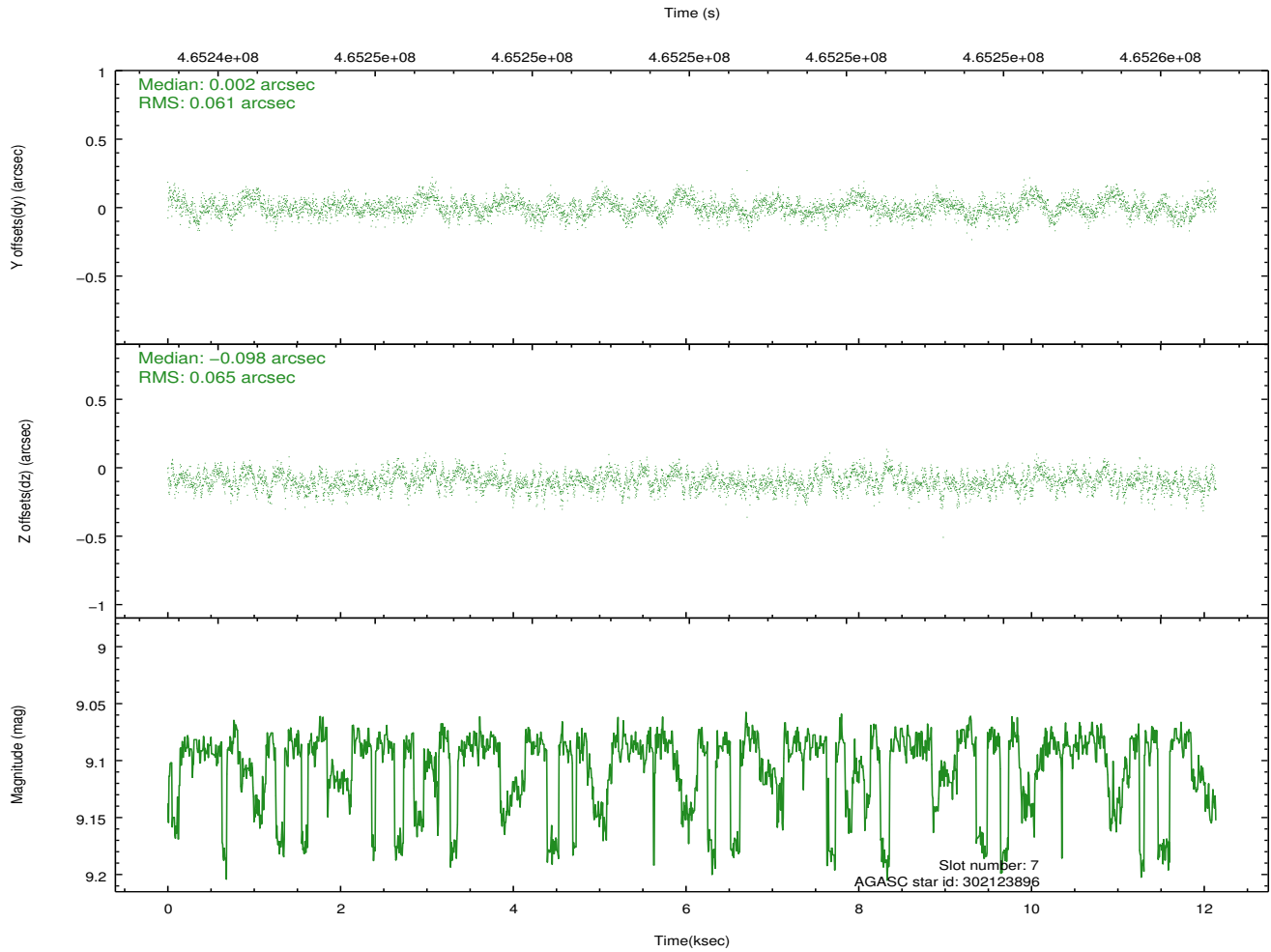
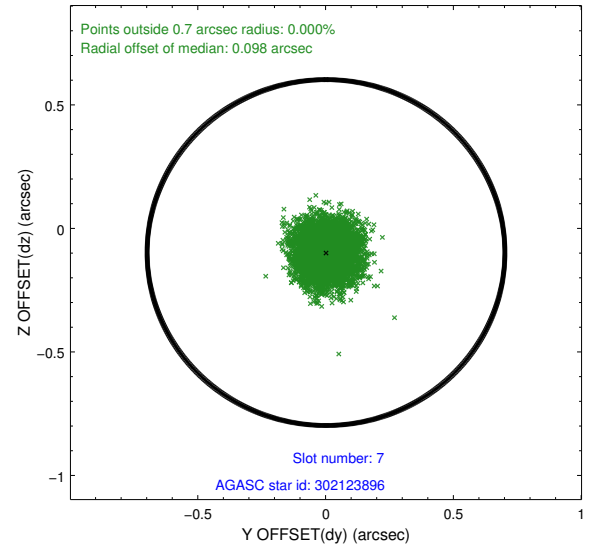
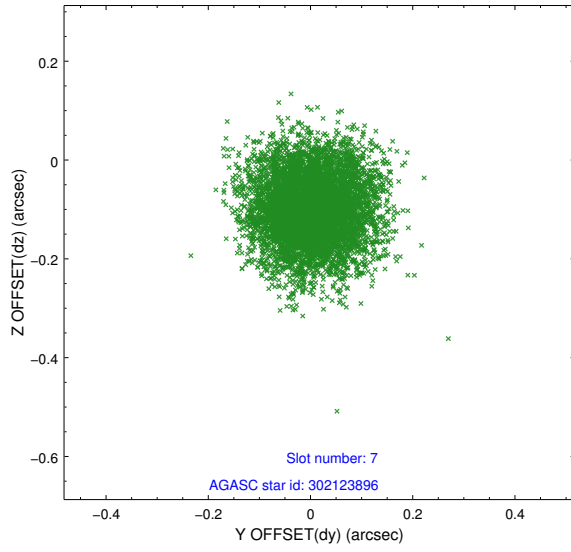
2.4.3 Slot 5



2.4.4 Slot 6

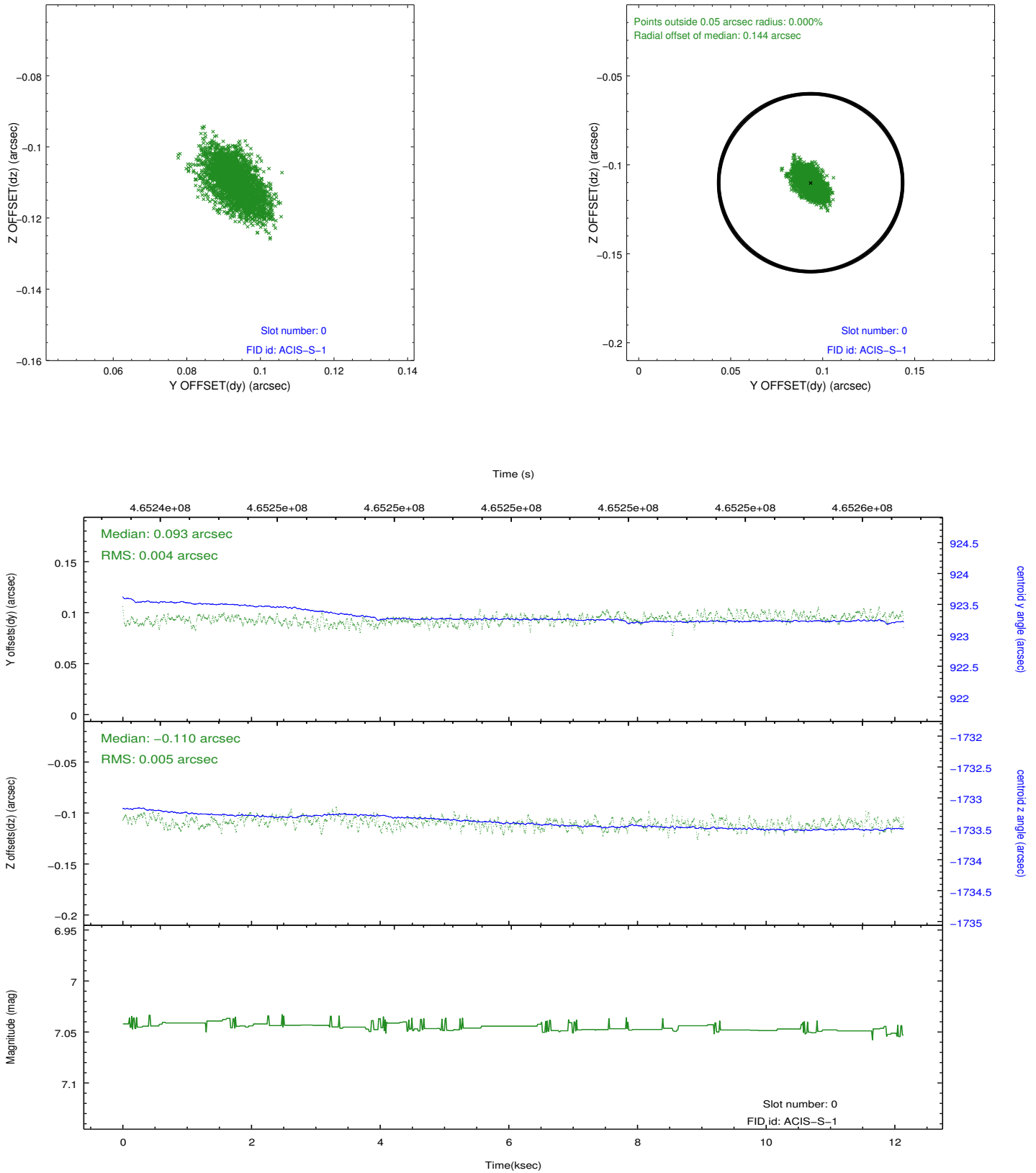


2.4.5 Slot 7

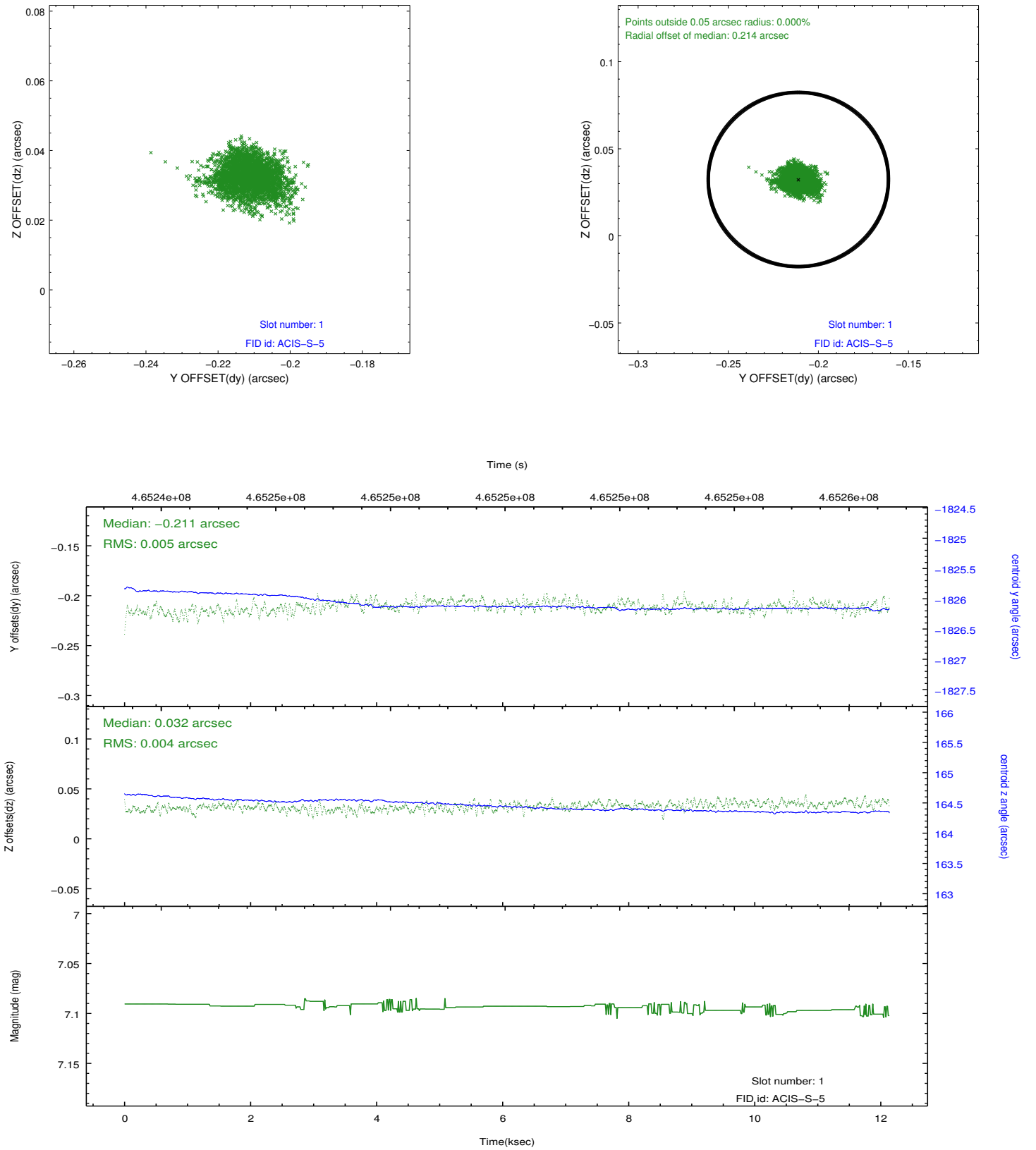


2.5 FID Slots

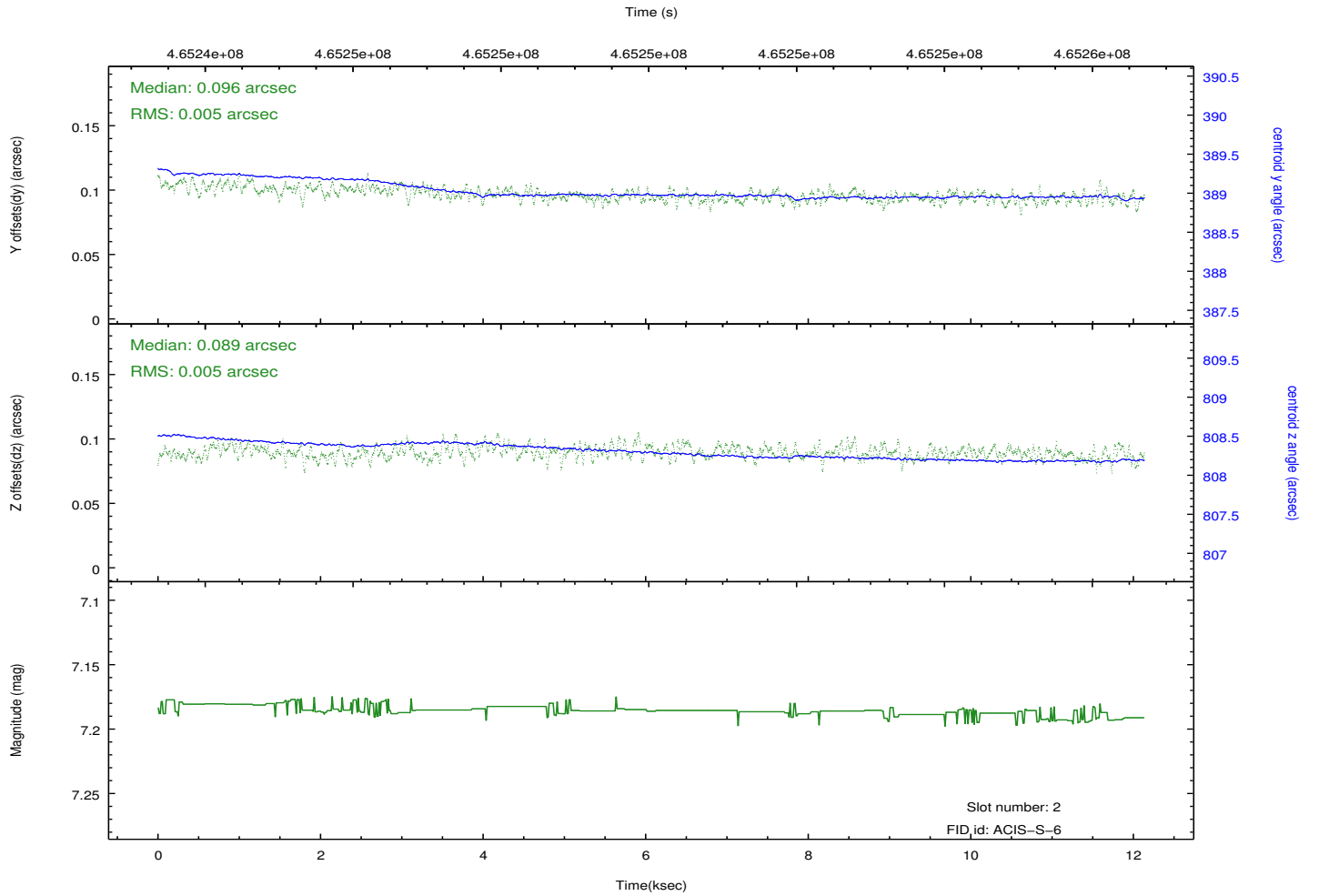
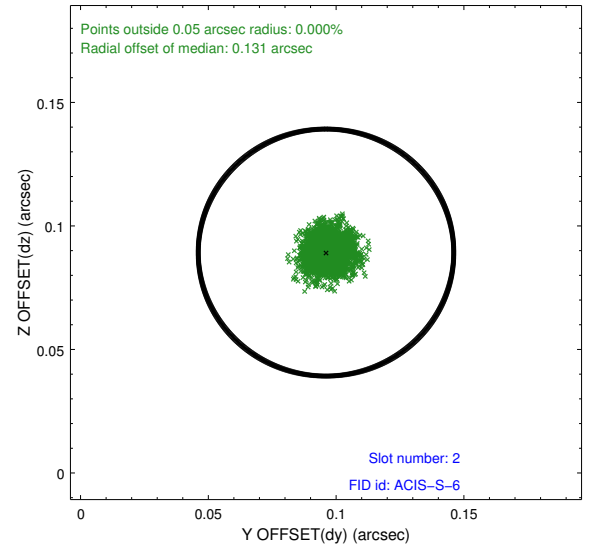
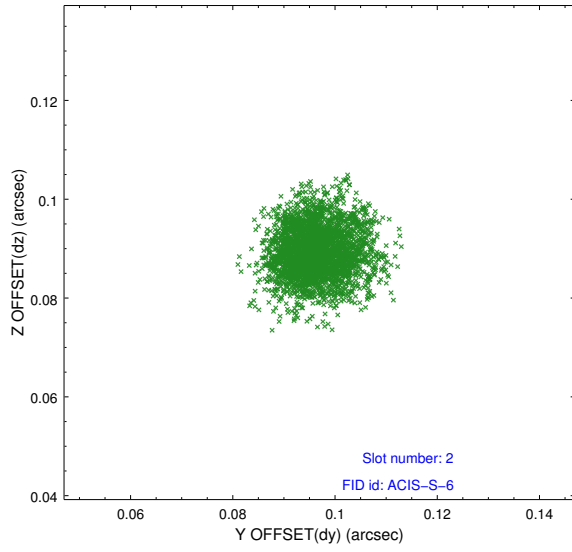
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.079617318213

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.