

V&V Reference Report

L2 ASCDS Version : 10

Observation 15156 - L2 Version 2
Chandra X-Ray Center

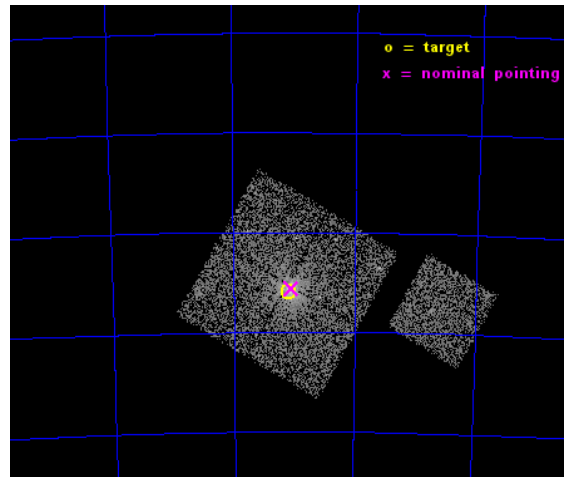
L2 Processing Date : Dec 3 2014

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1 Front

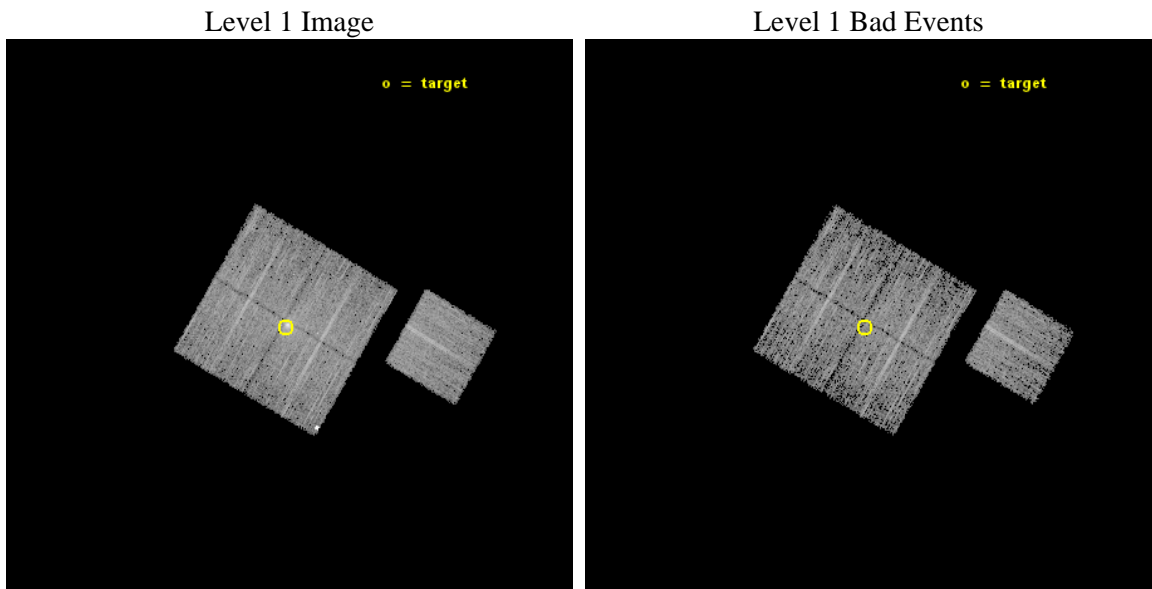
seq_num	801284	Sequence number
obs_id	15156	Observation id
title	COMPLETING eHIFLUGCS: THE ULTIMATE PRECISE AND ACCURATE LOCAL BASELINE	Proposal title
observer	Dr. Thomas Reiprich	Principal investigator
object	A2837	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.187083	Observer's specified target RA [deg]
dec_targ	-80.266	Observer's specified target Dec [deg]
ra_nom	13.15185534055	Nominal RA [deg]
dec_nom	-80.260541887608	Nominal Dec [deg]
roll_nom	120.18624848985	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8084.8000621796	Sum of GTIs [s]
livetime	7979.166197424	Livetime [s]
ontime0	8084.8000621796	Sum of GTIs [s]
ontime1	8084.8000621796	Sum of GTIs [s]
ontime2	8084.8000621796	Sum of GTIs [s]
ontime3	8084.8000621796	Sum of GTIs [s]
ontime6	8084.8000621796	Sum of GTIs [s]
l2events	22122	Number of level 2 events



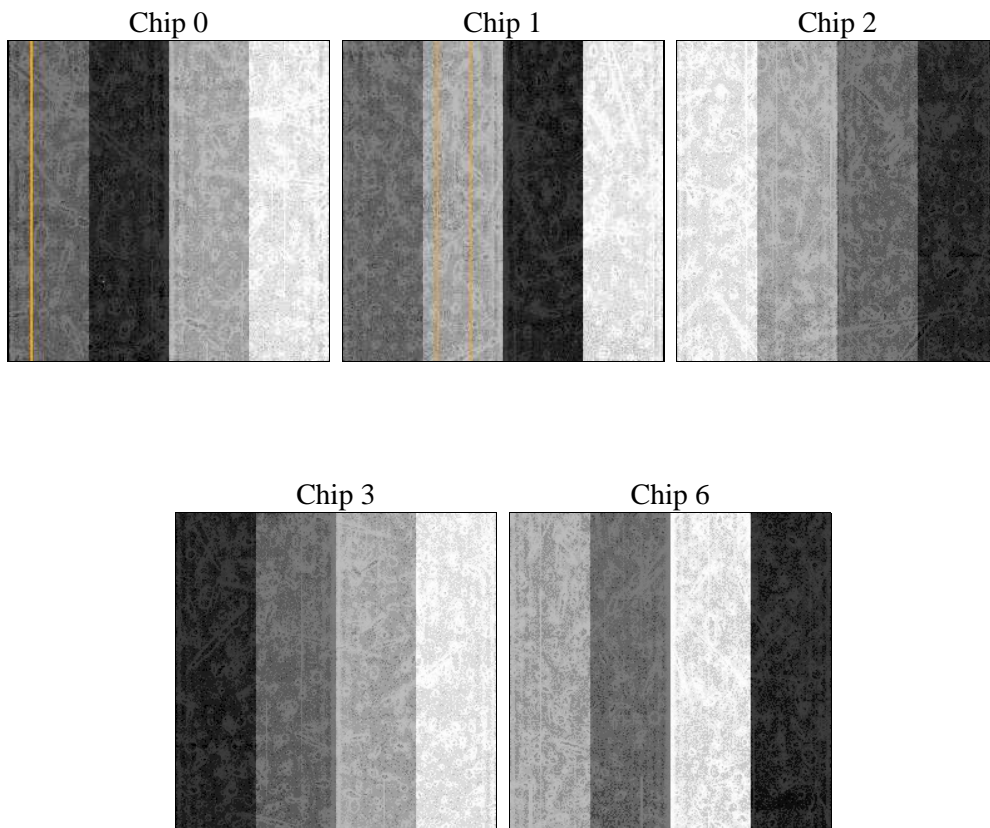
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	8084.8000621796	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	8084.8000621796	Sum of GTIs [s]
date	2014-12-03T11:50:54	Date and time of file creation	ontime1	8084.8000621796	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8084.8000621796	Sum of GTIs [s]
			ontime3	8084.8000621796	Sum of GTIs [s]
			ontime6	8084.8000621796	Sum of GTIs [s]
			l1events	175126	Number of level 1 events

2.1.4 Events

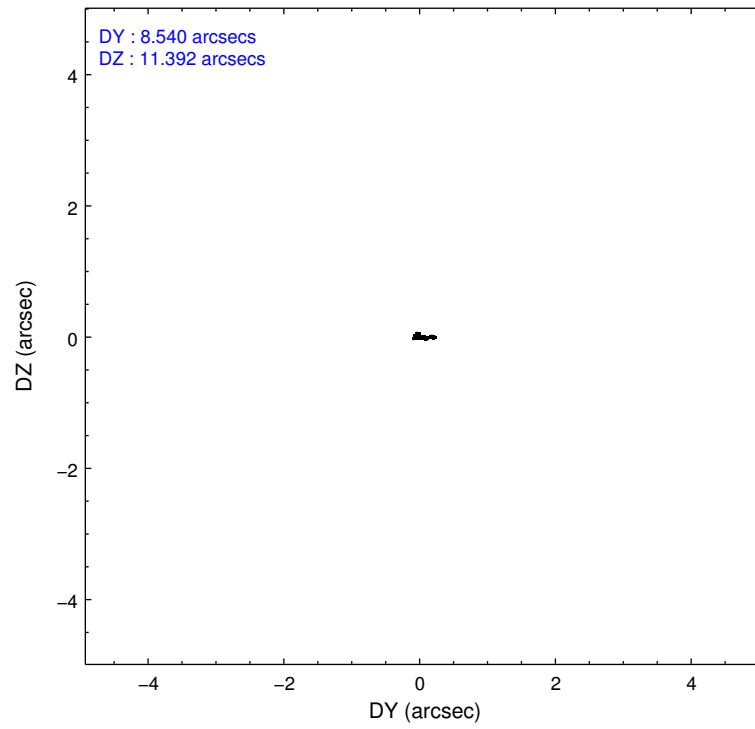
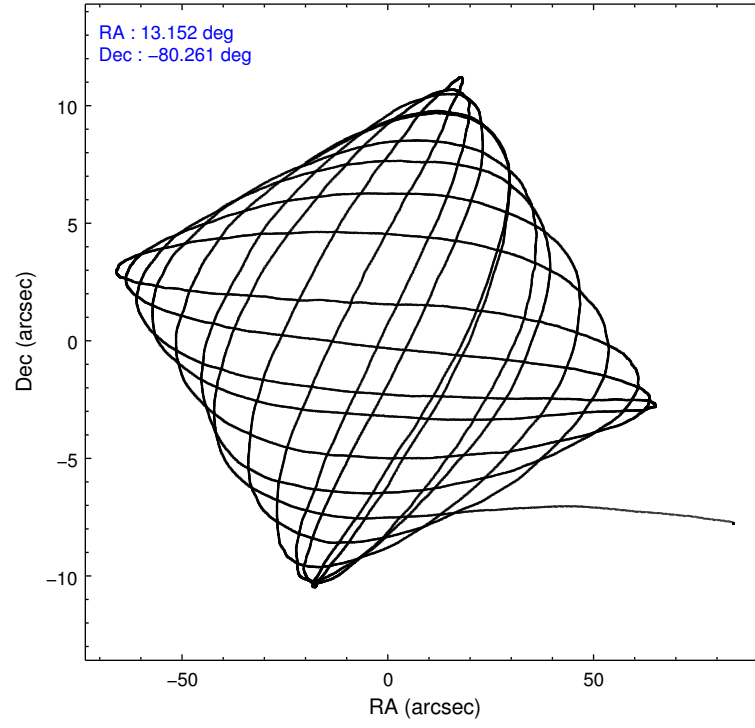
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	31958	33880	35084	38588	35616
rejected events	27313	28928	30125	29295	31441
rejected %	85%	85%	85%	75%	88%

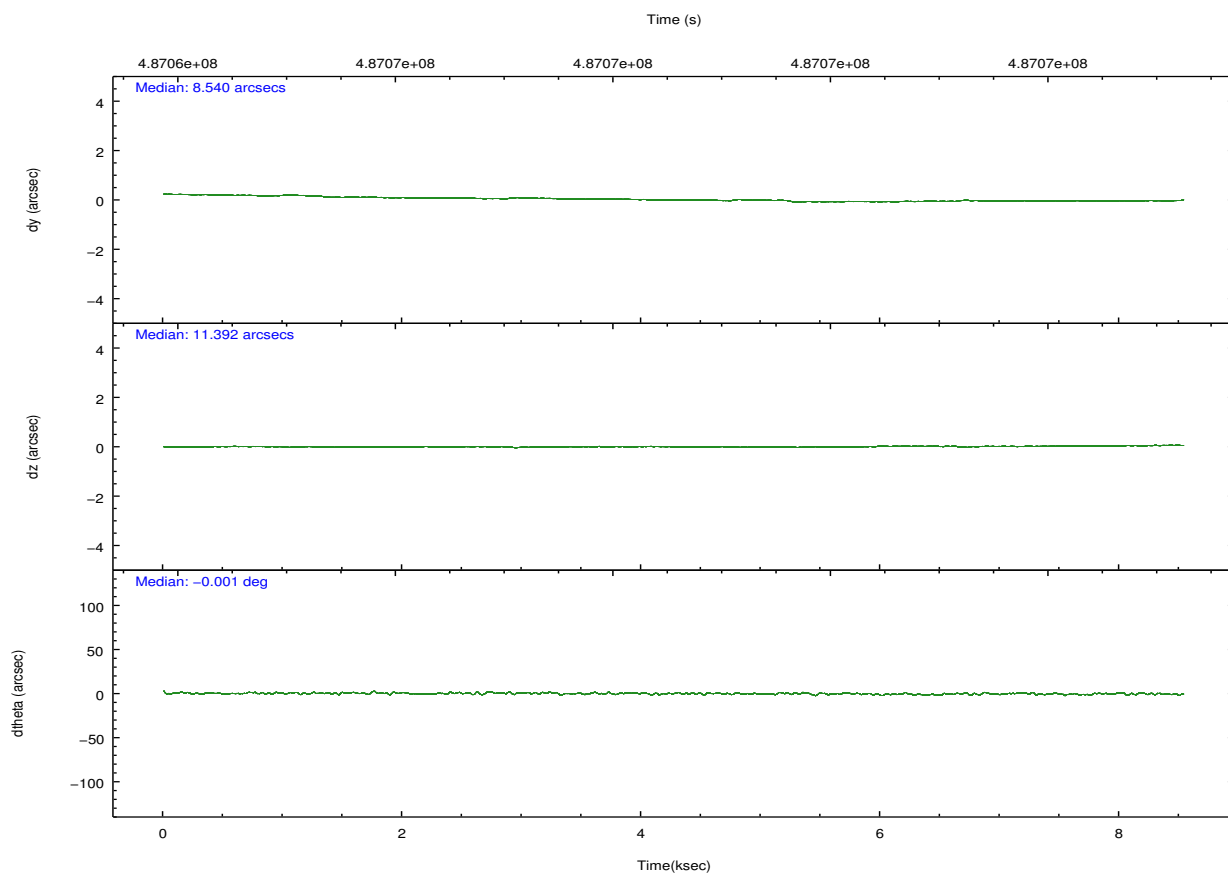
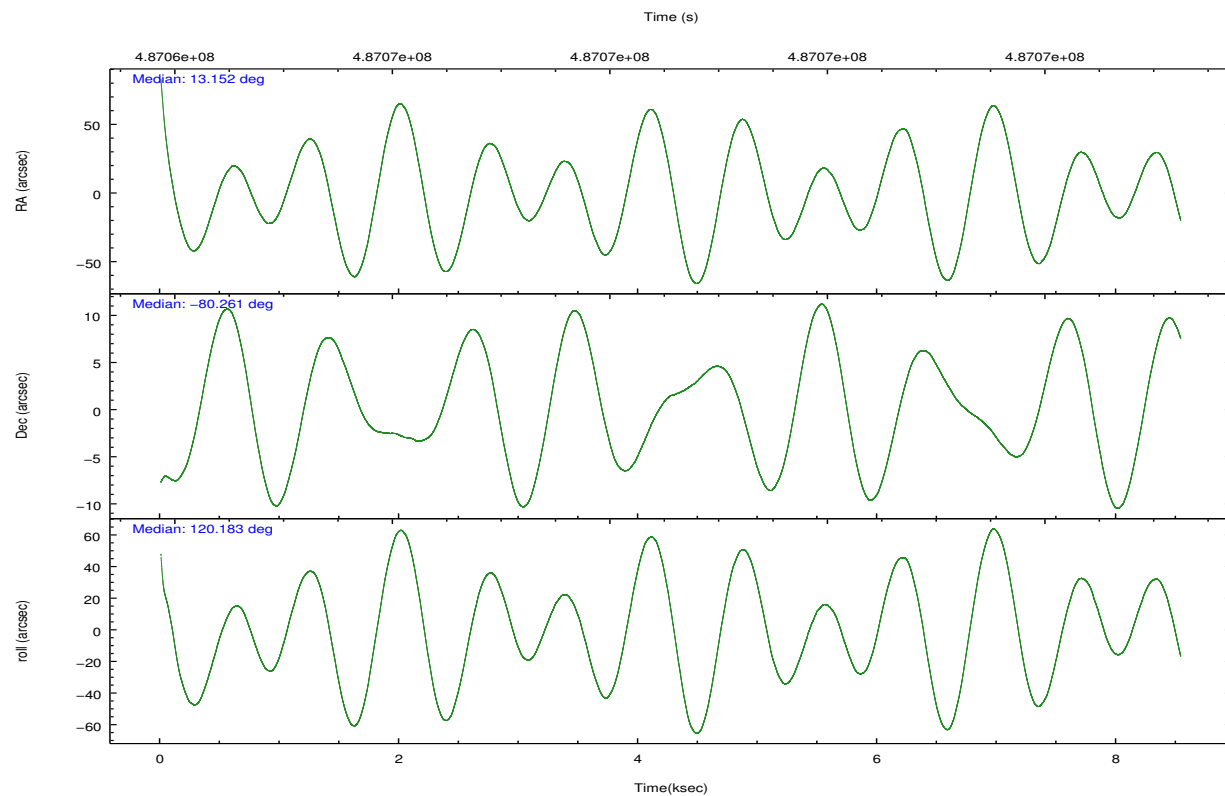
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1904	1996	2409	6378	1483
	5%	5%	6%	16%	4%
grade 1 events	18	18	21	39	16
	0%	0%	0%	0%	0%
grade 2 events	1081	1128	967	1090	941
	3%	3%	2%	2%	2%
grade 3 events	432	455	405	497	412
	1%	1%	1%	1%	1%
grade 4 events	404	438	418	477	437
	1%	1%	1%	1%	1%
grade 5 events	1365	1486	1324	1690	1556
	4%	4%	3%	4%	4%
grade 6 events	828	940	761	858	905
	2%	2%	2%	2%	2%
grade 7 events	25926	27419	28779	27559	29866
	81%	80%	82%	71%	83%

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	13.293384	13.15185534055047	CCD I2 on	Y	Y
[deg] Pointing Dec	-80.274107	-80.26054188760759	CCD I3 on	Y	Y
[deg] Pointing Roll	120.117096	120.1862484898549	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	487064833.184000	487063569.71863	CCD S5 on	N	N
Observation start date	2013-06-08T07:46:06	2013-06-08T07:26:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	487072833.184000	487073843.29418	On-chip summing requested	N	N
Observation end date	2013-06-08T09:59:26	2013-06-08T10:17:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



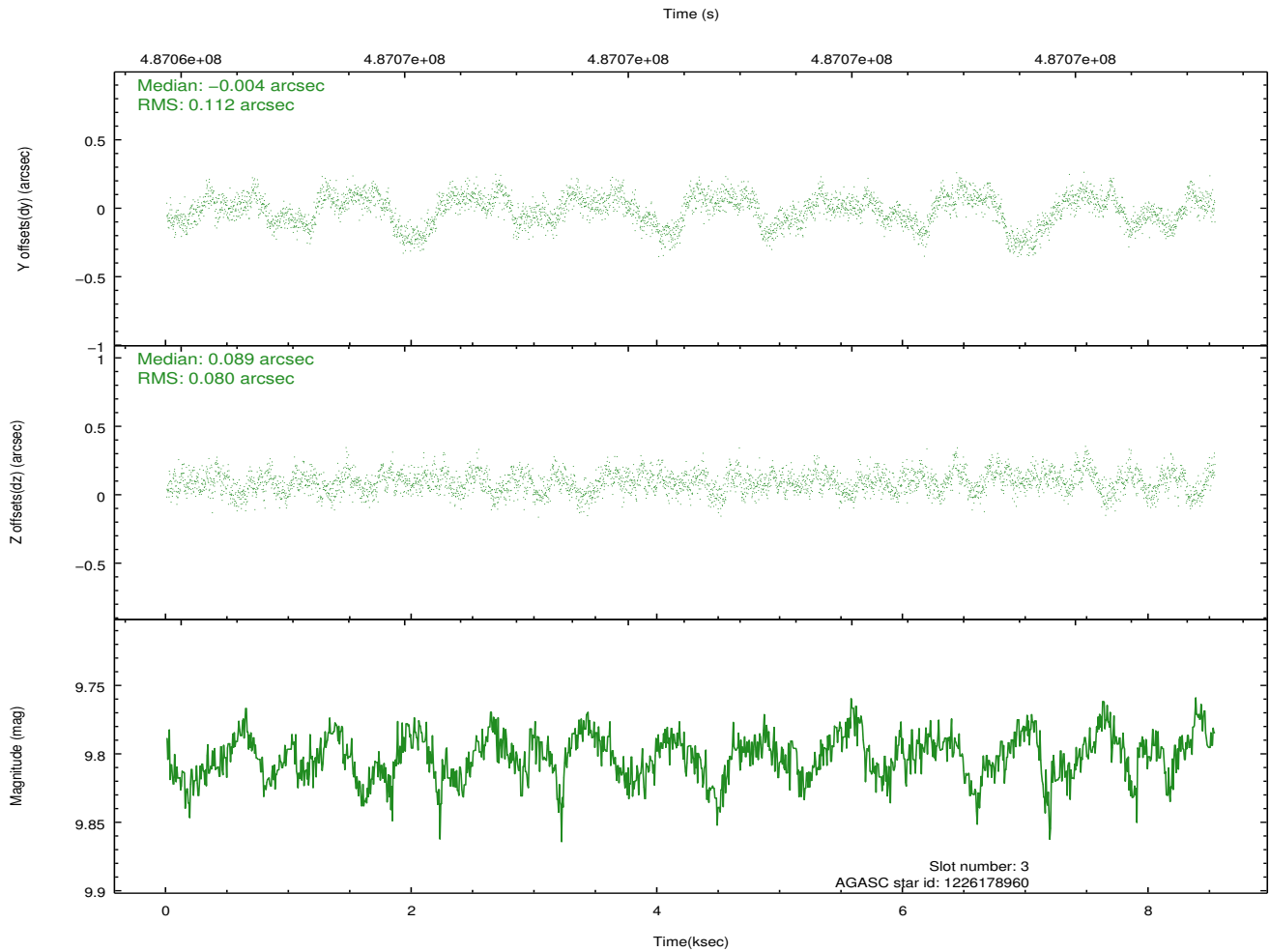
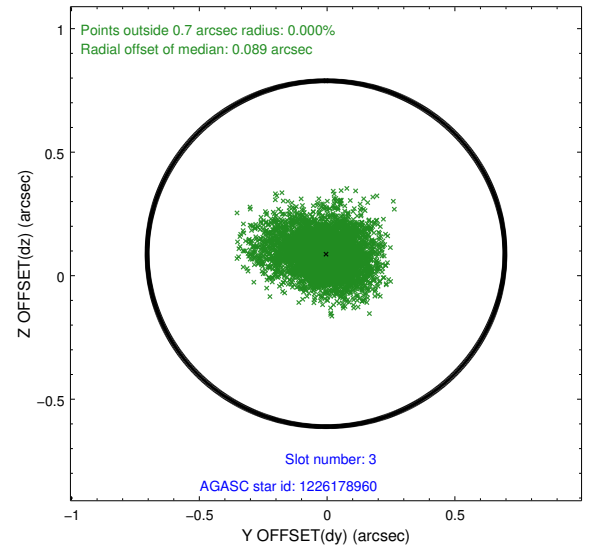
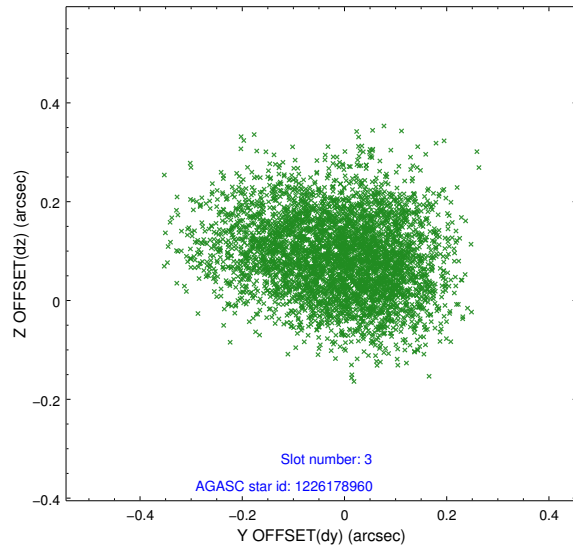


Slot Statistics

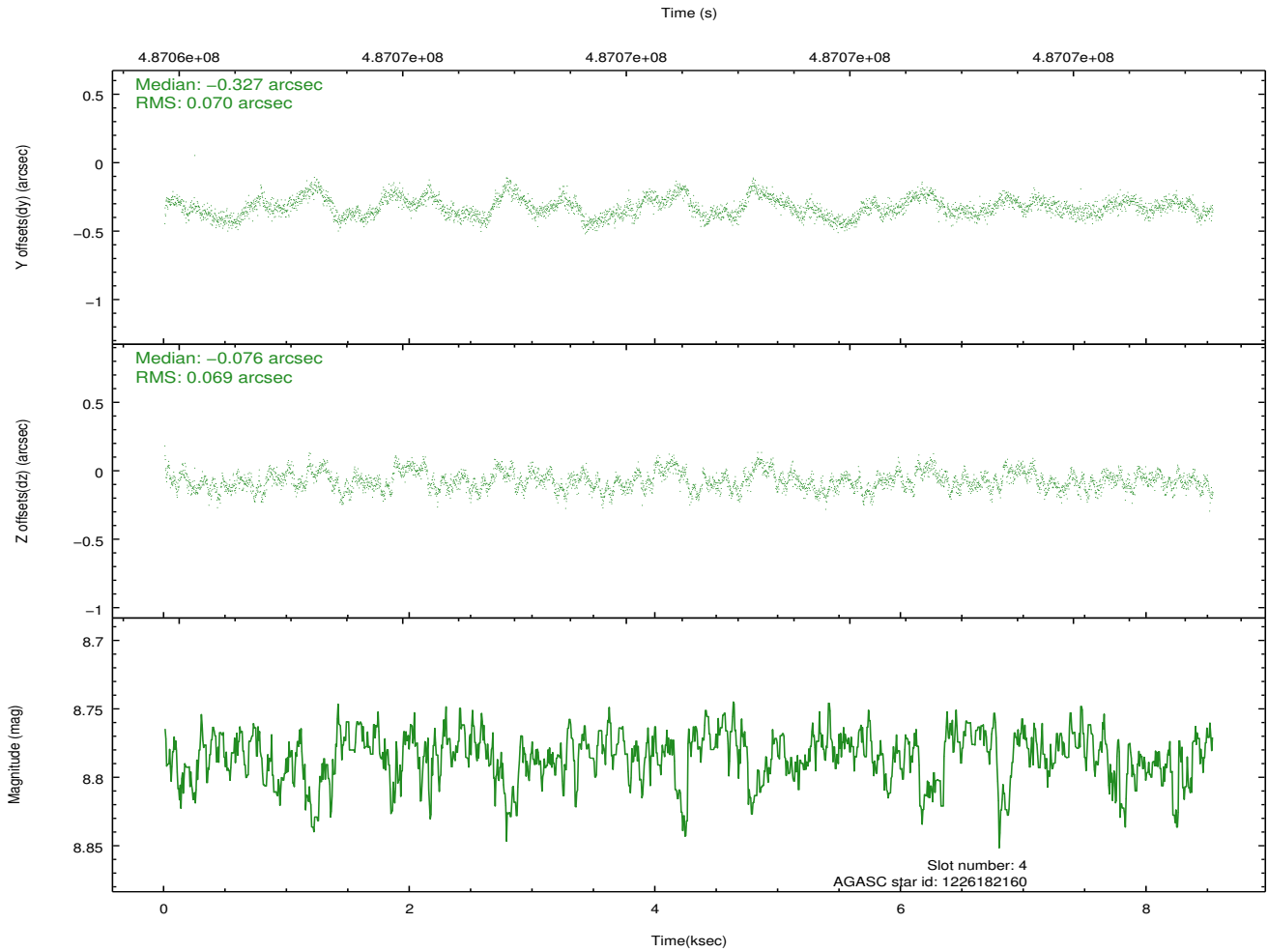
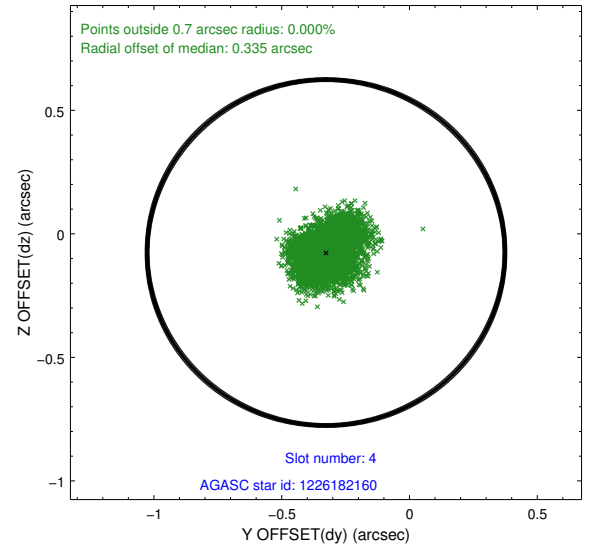
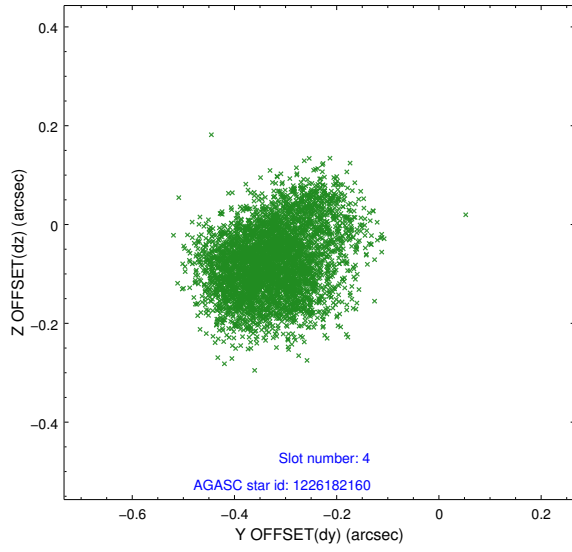
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.10	2082	-0.166	-0.126	0.007	0.013	0.000000	0.000000	-763.30	-841.37
1	FID		ACIS-I-4	7.13	2082	0.130	0.056	0.008	0.014	0.000000	0.000000	2150.81	1064.58
2	FID		ACIS-I-6	7.19	2082	-0.064	0.134	0.009	0.016	0.000000	0.000000	397.78	1707.63
3	GUIDE	used	1226178960	9.80	4158	-0.004	0.089	0.145	0.239	16.262467	-80.522922	-1696.16	-1049.48
4	GUIDE	used	1226182160	8.78	4159	-0.327	-0.076	0.106	0.169	10.838359	-80.333249	532.56	1405.82
5	GUIDE	used	1226708240	9.09	4162	0.065	-0.082	0.122	0.198	13.535111	-80.665640	-1290.39	586.09
6	GUIDE	used	1226709280	10.16	4161	0.169	-0.007	0.179	0.275	13.475590	-80.769807	-1596.85	804.51
7	GUIDE	used	1226707808	9.98	4162	0.103	0.068	0.202	0.326	15.085483	-80.859944	-2352.44	180.08

2.4 Star Slots

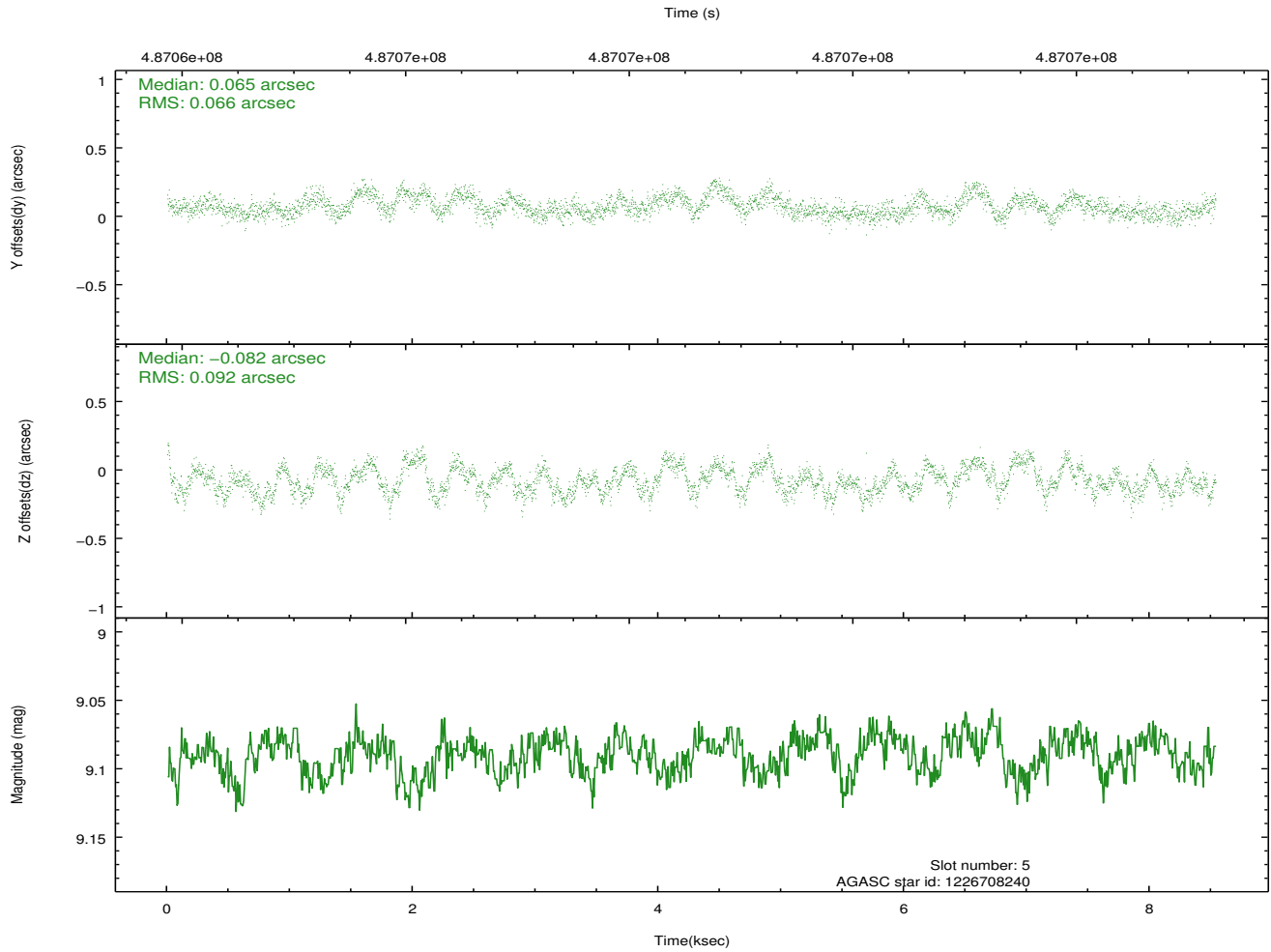
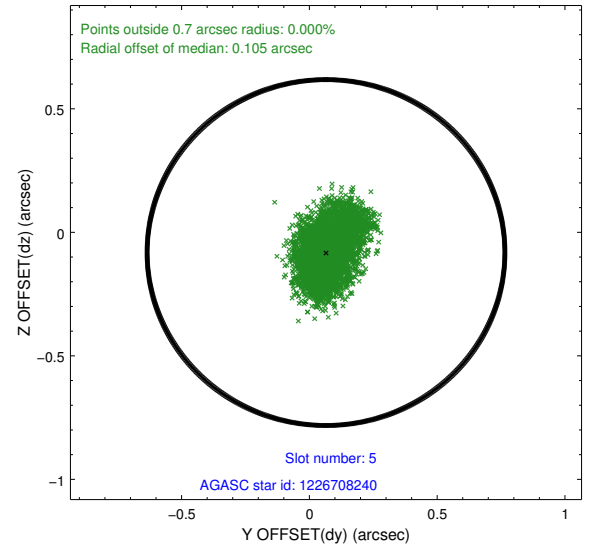
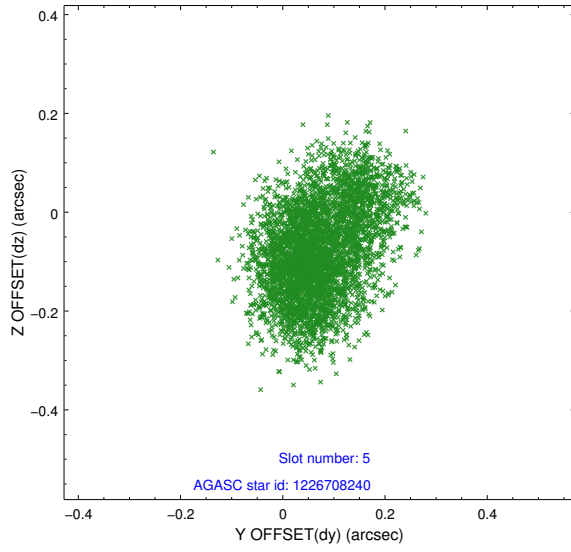
2.4.1 Slot 3



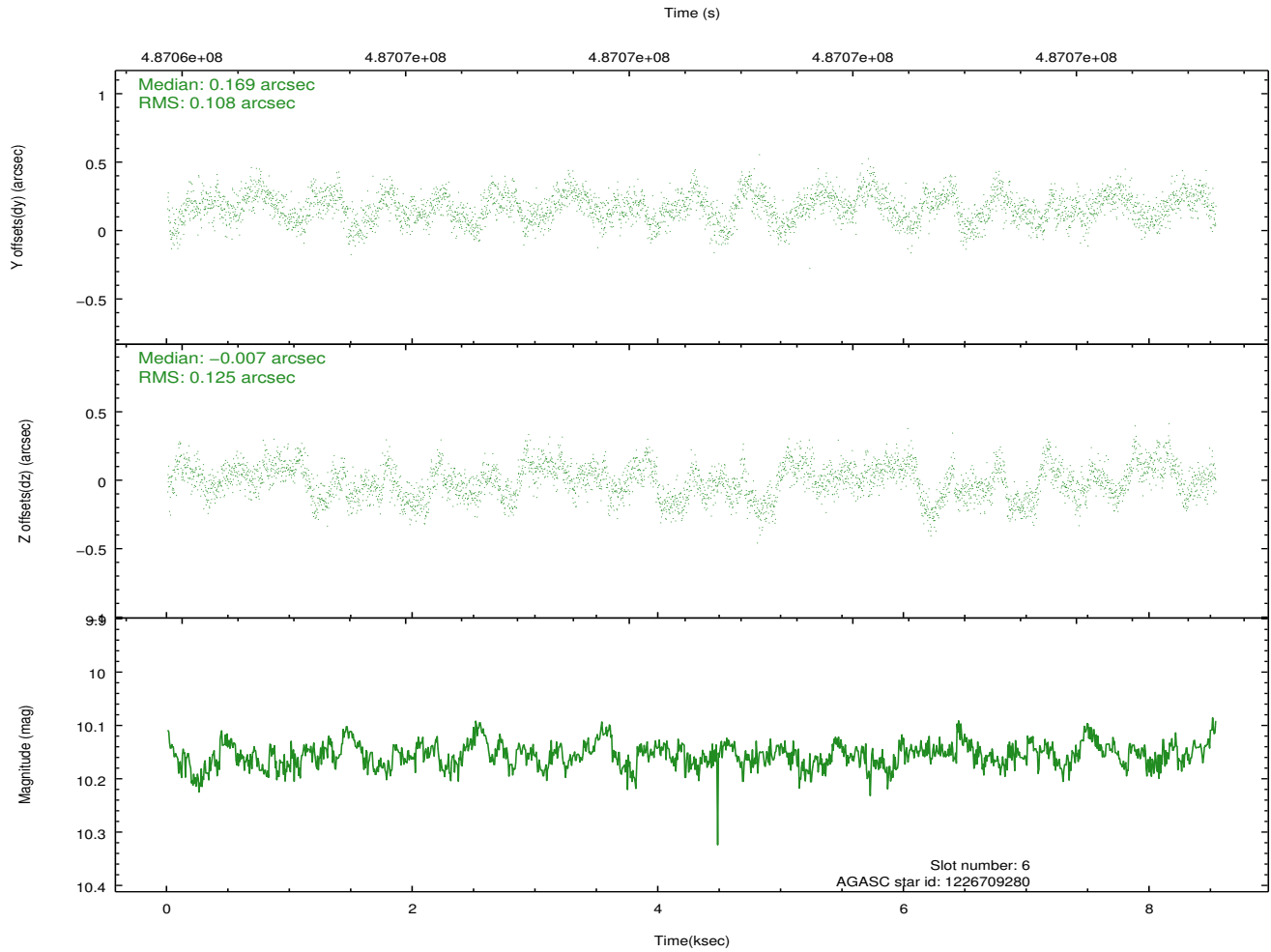
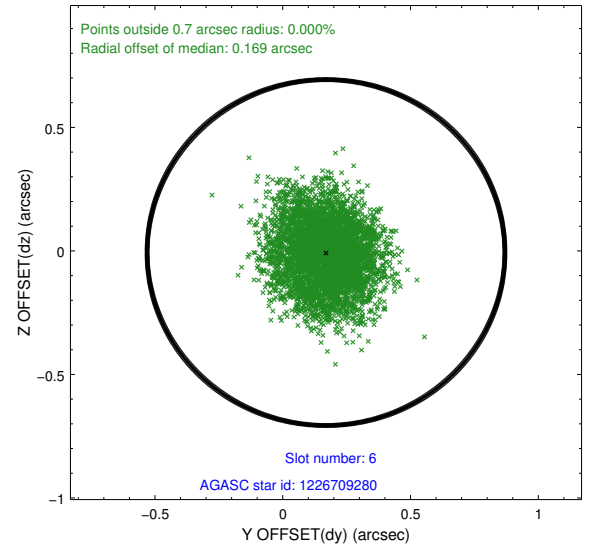
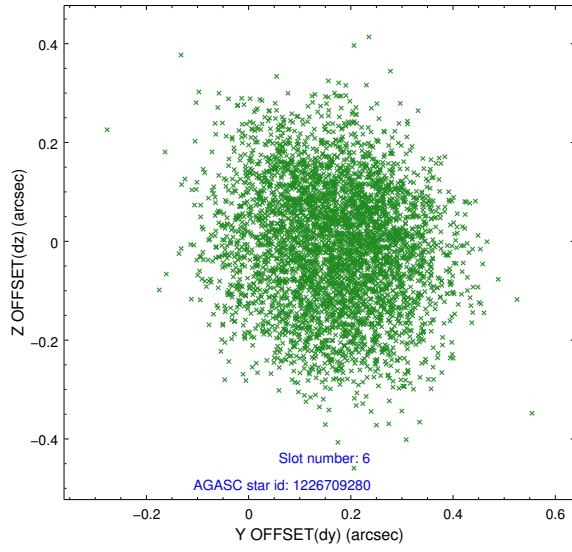
2.4.2 Slot 4



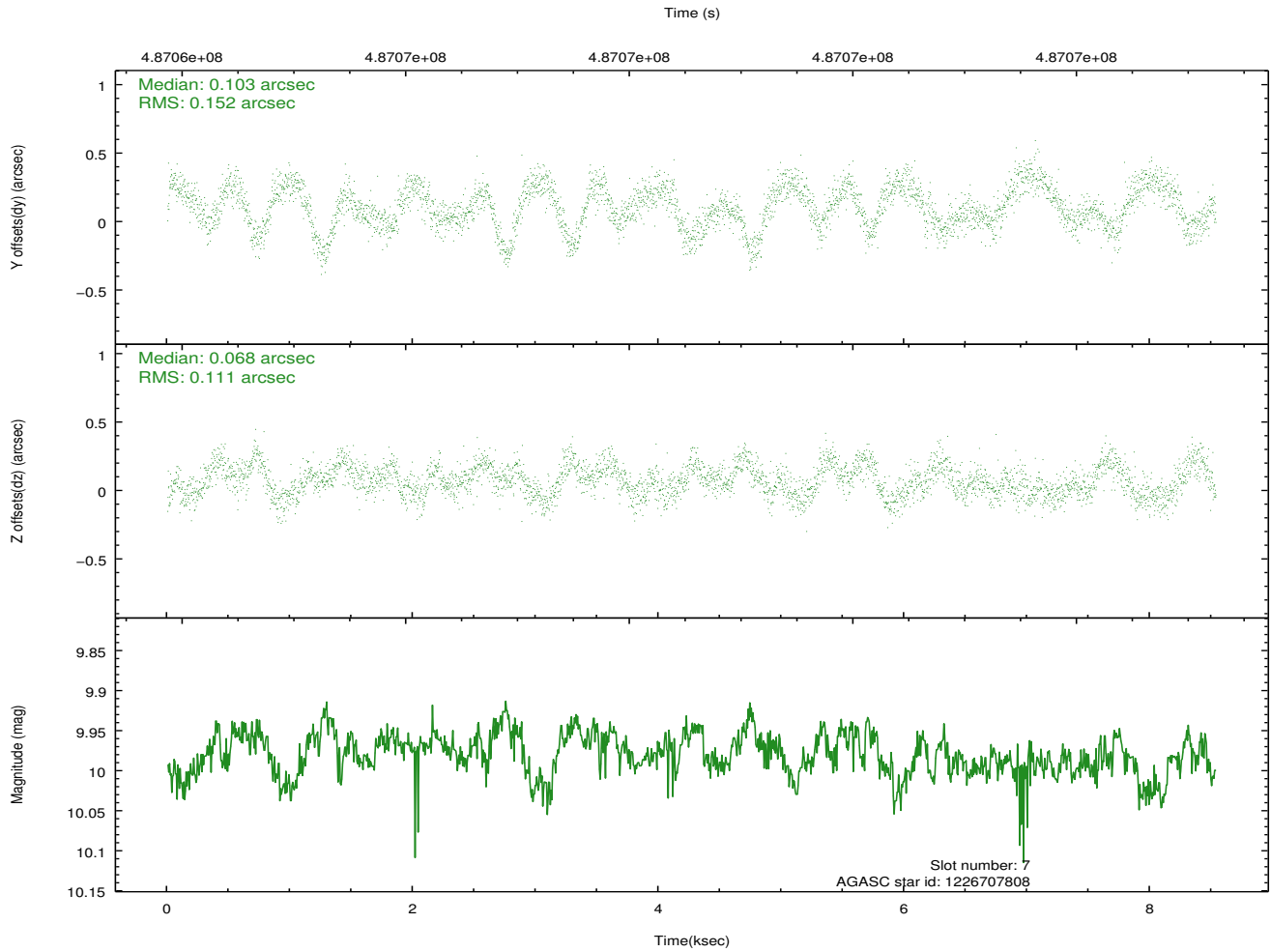
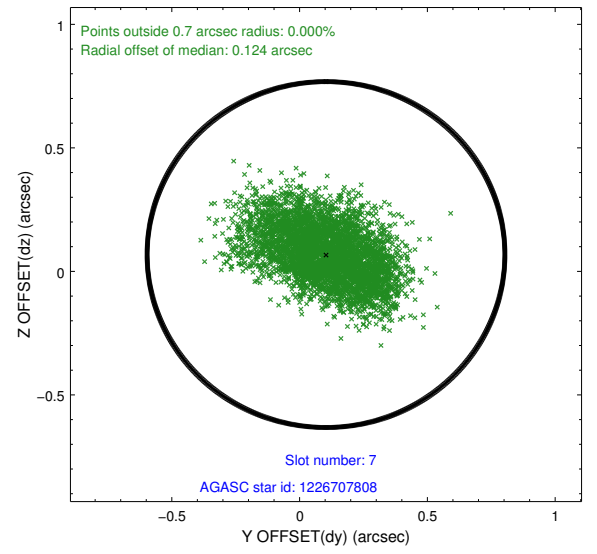
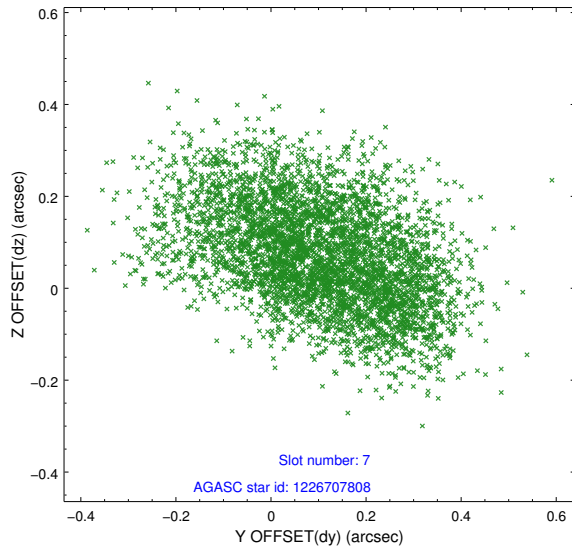
2.4.3 Slot 5



2.4.4 Slot 6

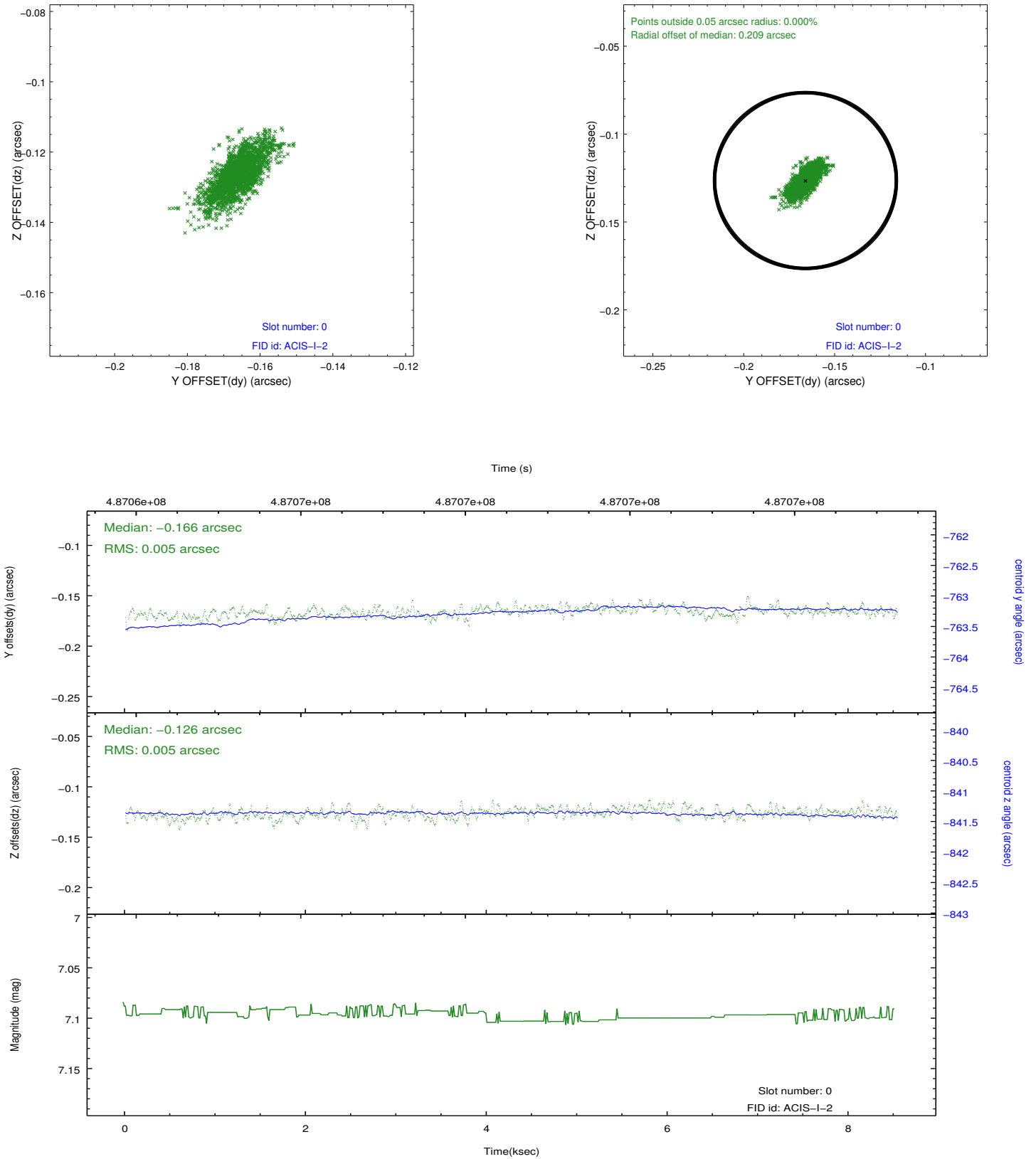


2.4.5 Slot 7

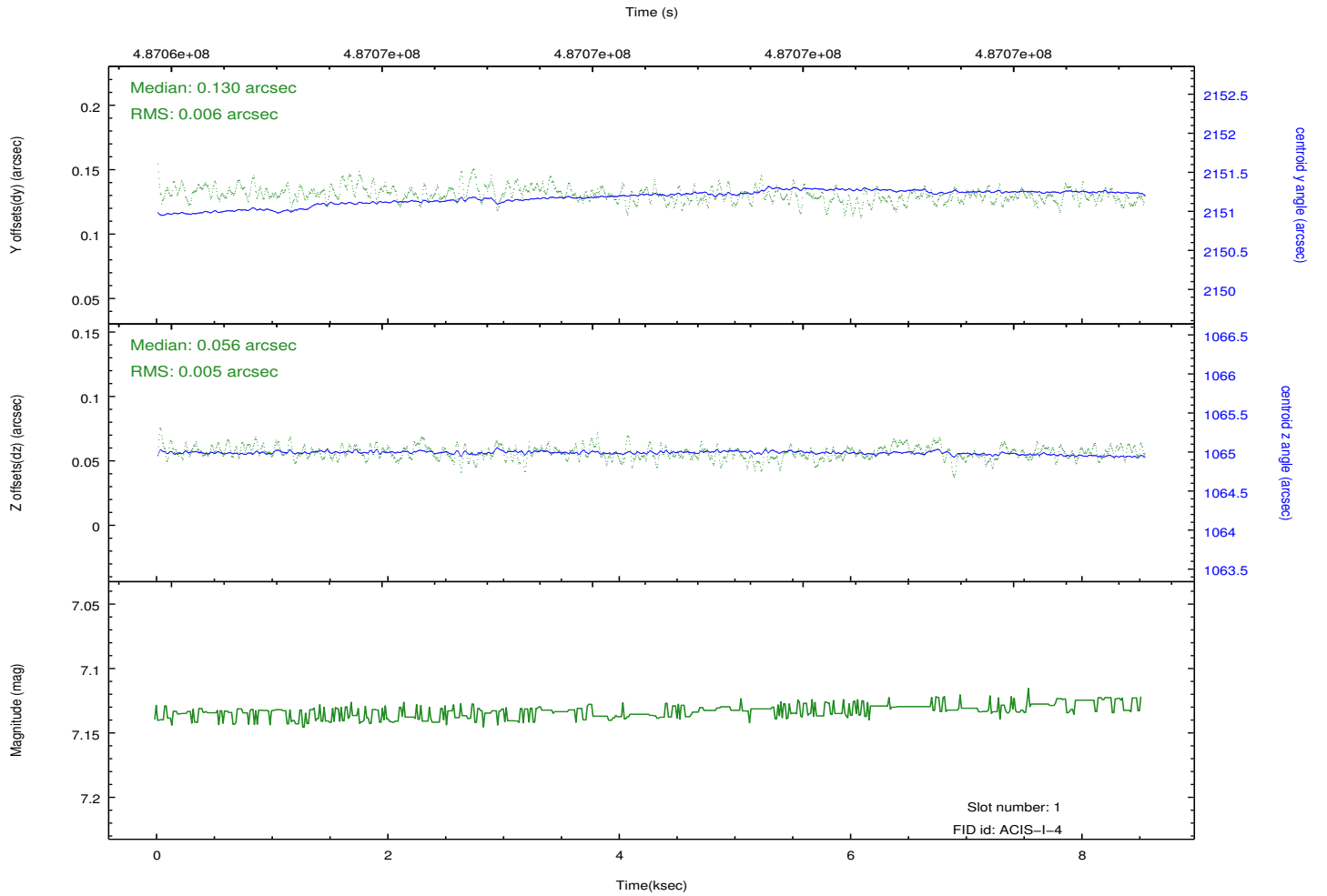
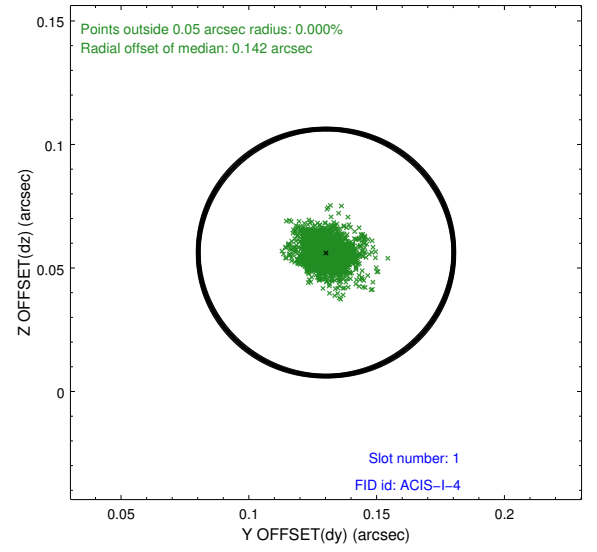
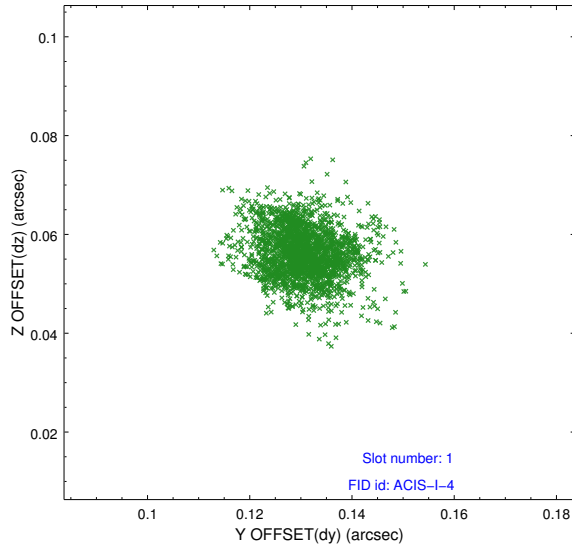


2.5 FID Slots

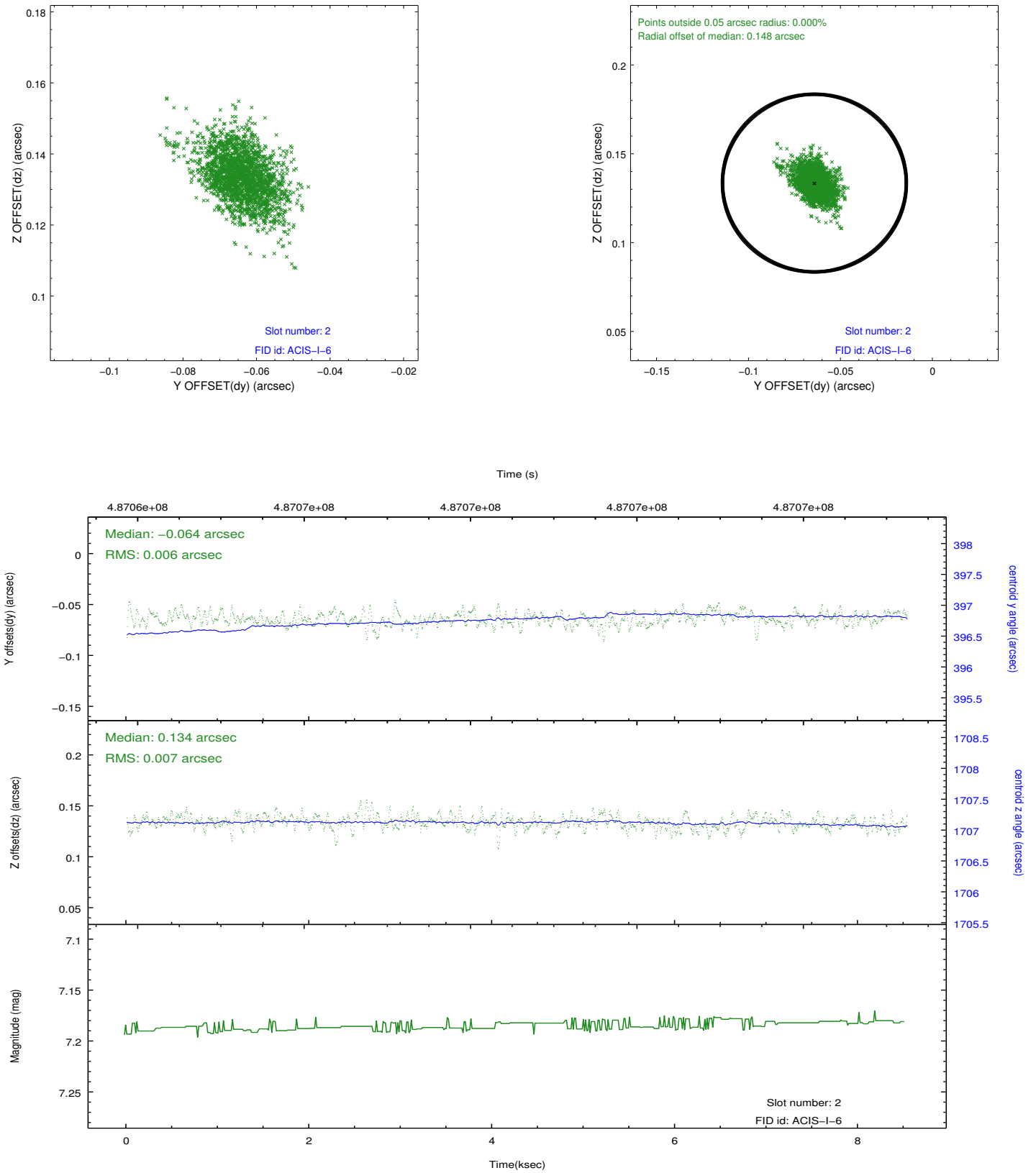
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0848000621796

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.