

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15999 - L2 Version 2
Chandra X-Ray Center

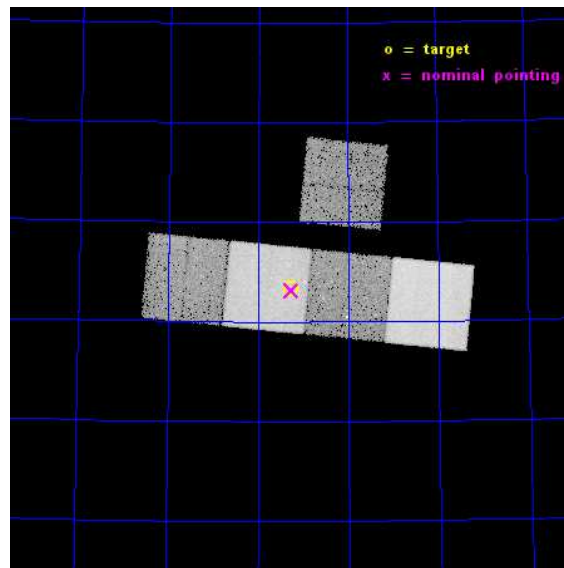
L2 Processing Date : Dec 8 2014

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1 Front

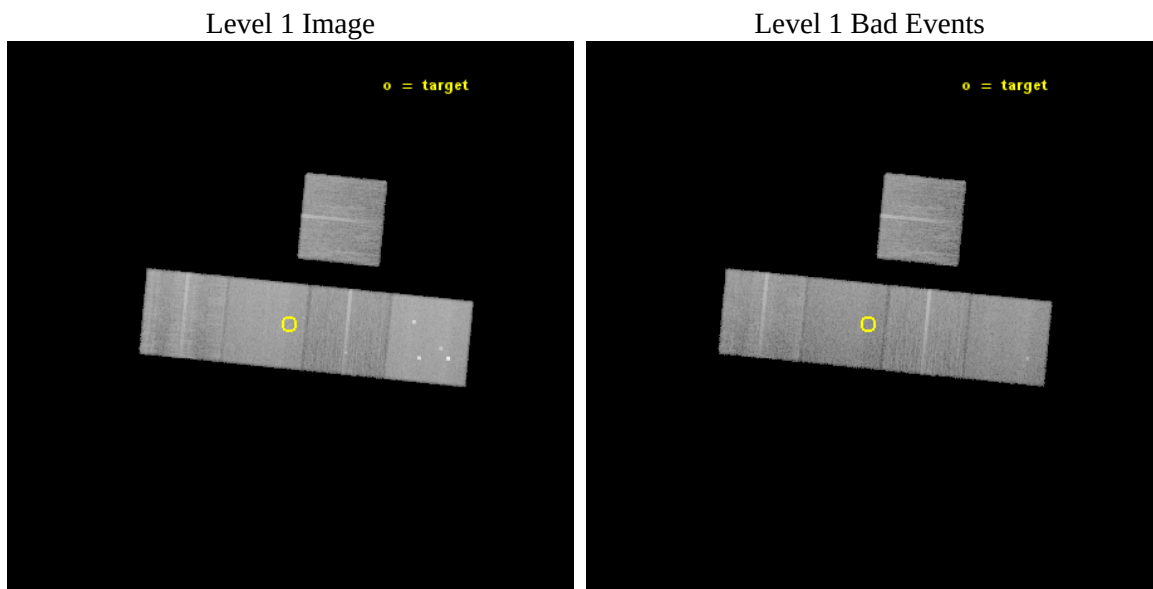
seq_num	502232	Sequence number
obs_id	15999	Observation id
title	REVISITING TWO OF THE BRIGHTEST TYPE IINS: HOW THE MIGHTY ARE FALLING - AND PERHAPS RISING AGAIN	Proposal title
observer	Dr Vikram Dwarkadas	Principal investigator
object	SN 2005kd	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	60.820417	Observer's specified target RA [deg]
dec_targ	71.721917	Observer's specified target Dec [deg]
ra_nom	60.816098016663	Nominal RA [deg]
dec_nom	71.719217847908	Nominal Dec [deg]
roll_nom	185.55824758302	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29061.735336483	Sum of GTIs [s]
livetime	28682.022369373	Livetime [s]
ontime2	29061.571176469	Sum of GTIs [s]
ontime5	29061.694296479	Sum of GTIs [s]
ontime6	29061.653256476	Sum of GTIs [s]
ontime7	29061.735336483	Sum of GTIs [s]
ontime8	29058.47115612	Sum of GTIs [s]
l2events	228925	Number of level 2 events



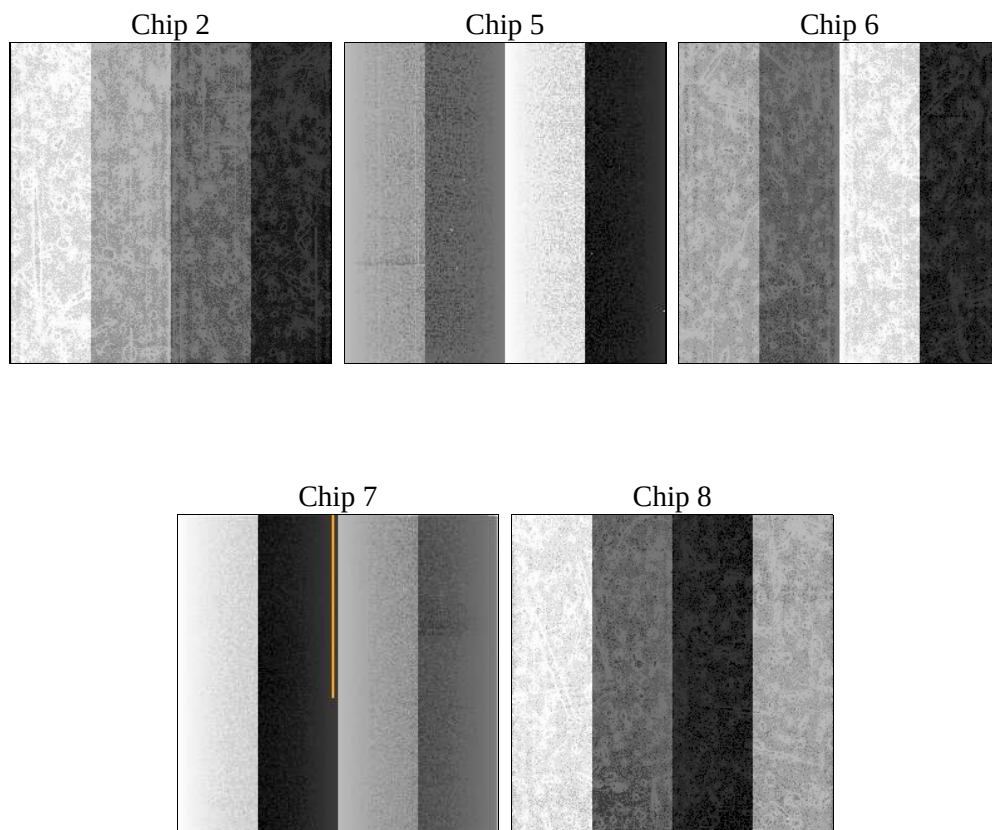
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	29061.735336483	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	29061.571176469	Sum of GTIs [s]
date	2014-12-08T05:45:41	Date and time of file creation	ontime5	29061.694296479	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	29061.653256476	Sum of GTIs [s]
			ontime7	29061.735336483	Sum of GTIs [s]
			ontime8	29058.47115612	Sum of GTIs [s]
			l1events	908502	Number of level 1 events

2.1.4 Events

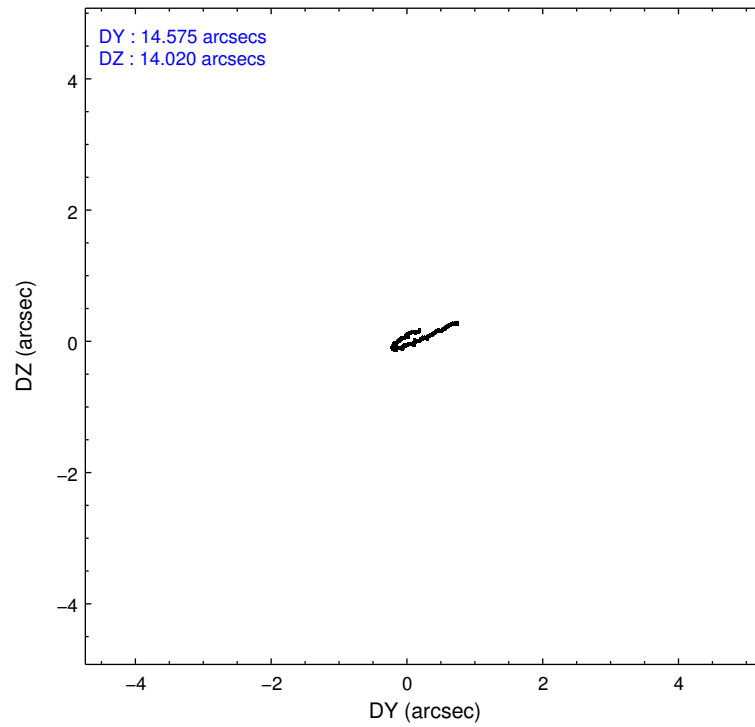
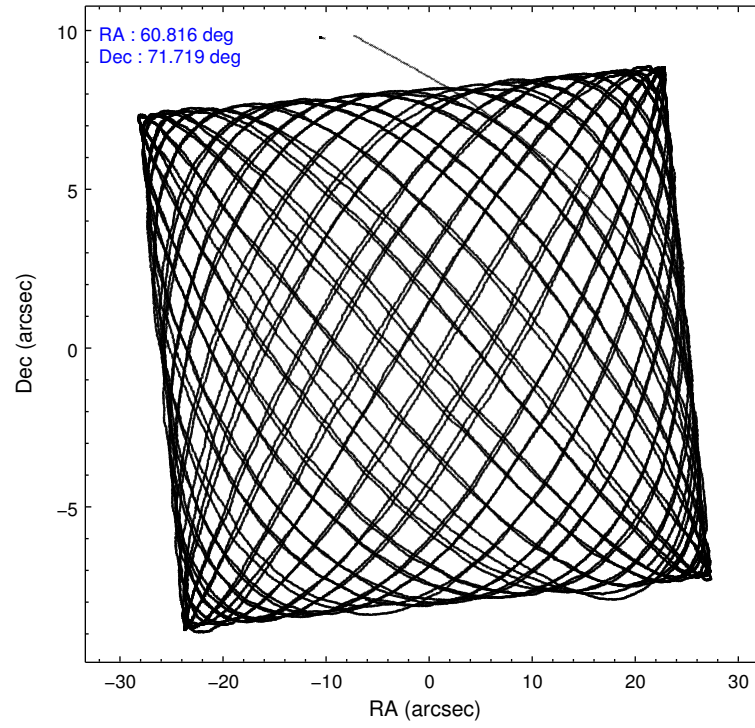
	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	141621	242712	144908	195166	184095
rejected events	126507	123639	127167	112977	138069
rejected %	89%	50%	87%	57%	74%

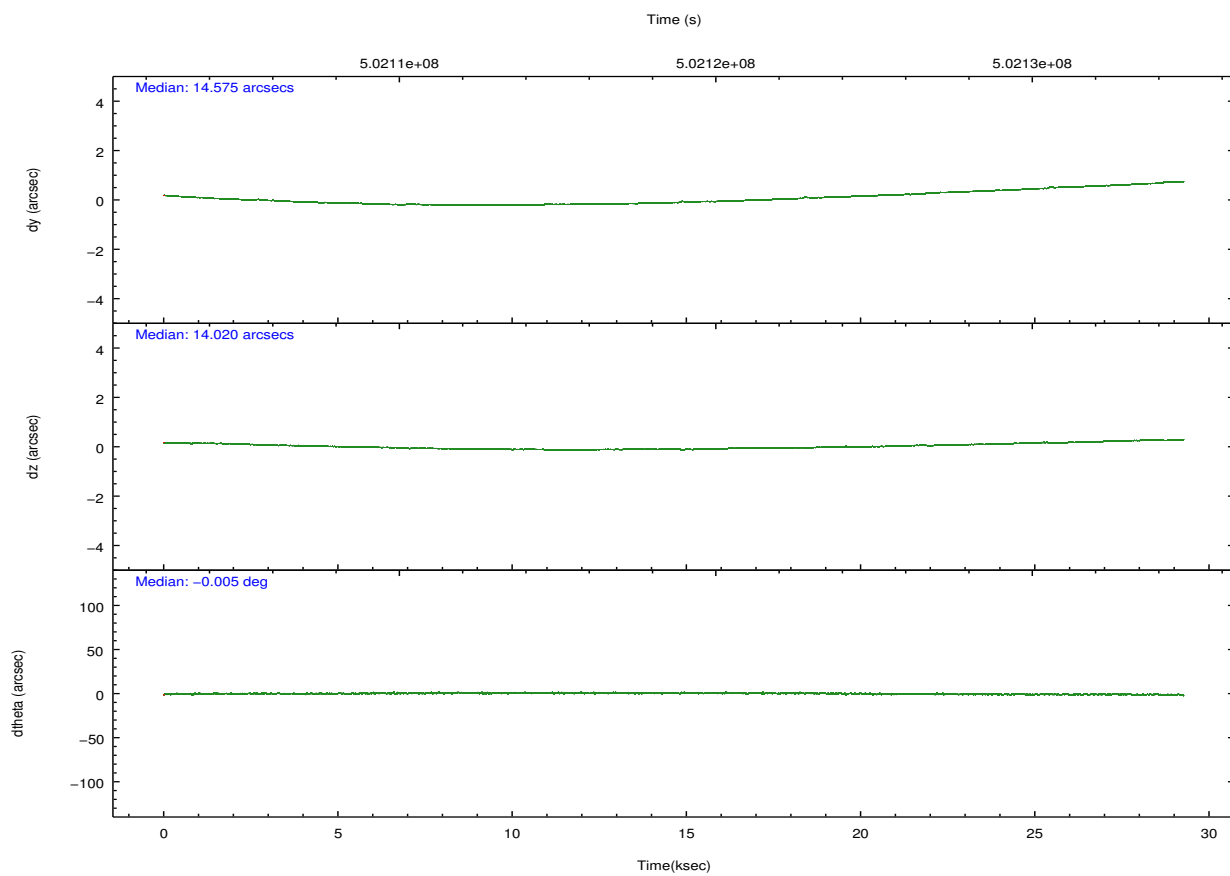
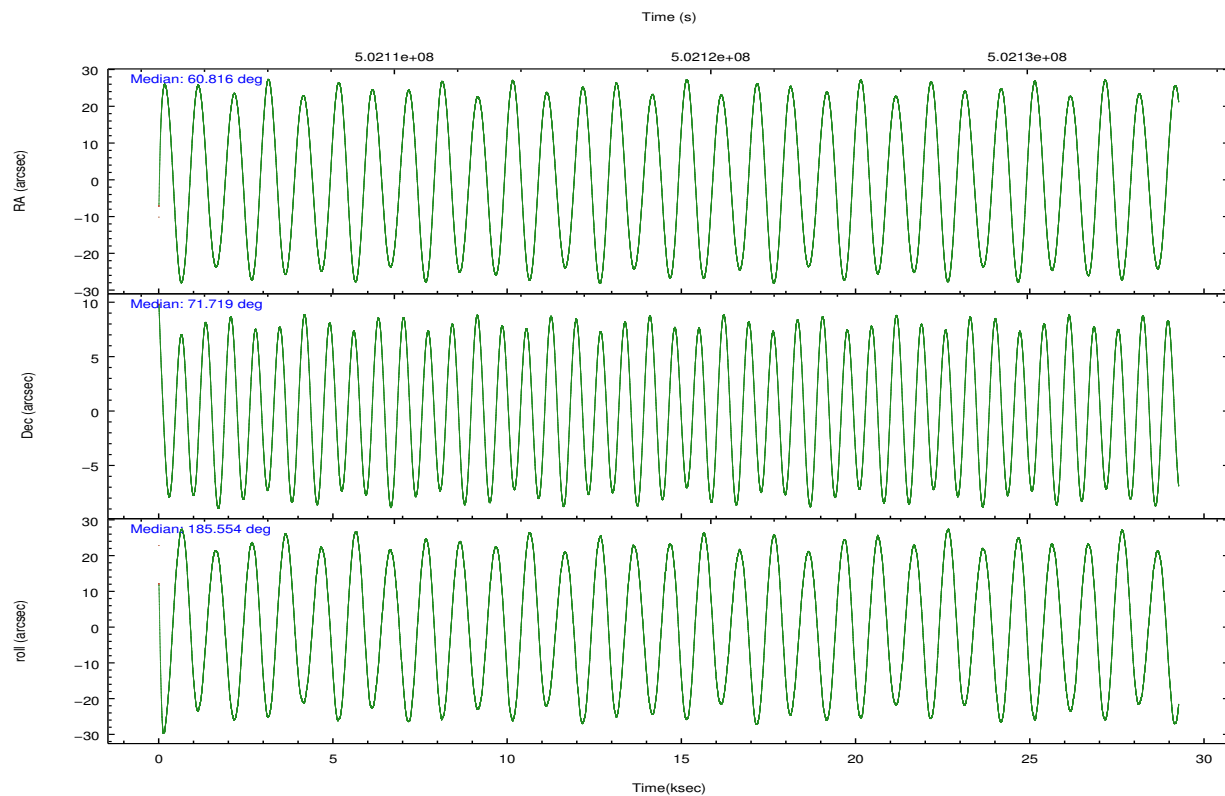
	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5307	14606	6222	6812	12700
	3%	6%	4%	3%	6%
grade 1 events	86	434	58	211	119
	0%	0%	0%	0%	0%
grade 2 events	3486	35956	4028	16949	11078
	2%	14%	2%	8%	6%
grade 3 events	1624	3278	1694	6460	4864
	1%	1%	1%	3%	2%
grade 4 events	1572	3314	1702	6365	4619
	1%	1%	1%	3%	2%
grade 5 events	5827	16071	7258	19167	10609
	4%	6%	5%	9%	5%
grade 6 events	3128	61944	4098	45625	12775
	2%	25%	2%	23%	6%
grade 7 events	120591	107109	119848	93577	127331
	85%	44%	82%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-25678	ACIS-25678	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	60.886309	60.81609801666314	CCD I2 on	O1	Y
[deg] Pointing Dec	71.735409	71.71921784790784	CCD I3 on	N	N
[deg] Pointing Roll	185.334945	185.558247583023	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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	Y	Y
[s] Observation start time (MET)	502104306.184000	502103328.40183	CCD S5 on	N	N
Observation start date	2013-11-29T09:23:59	2013-11-29T09:08:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	502133306.184000	502134293.14103	On-chip summing requested	N	N
Observation end date	2013-11-29T17:27:19	2013-11-29T17:44:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



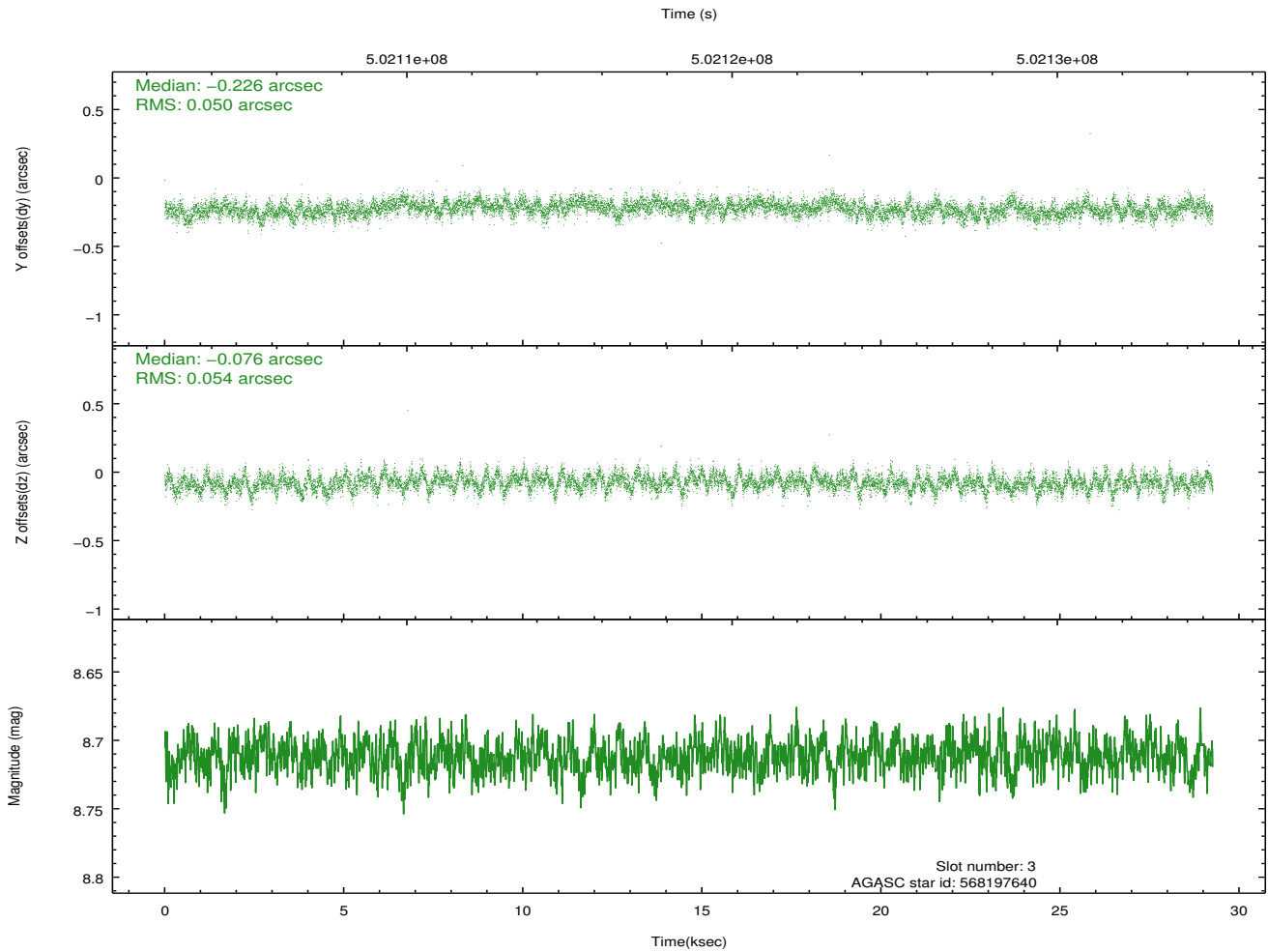
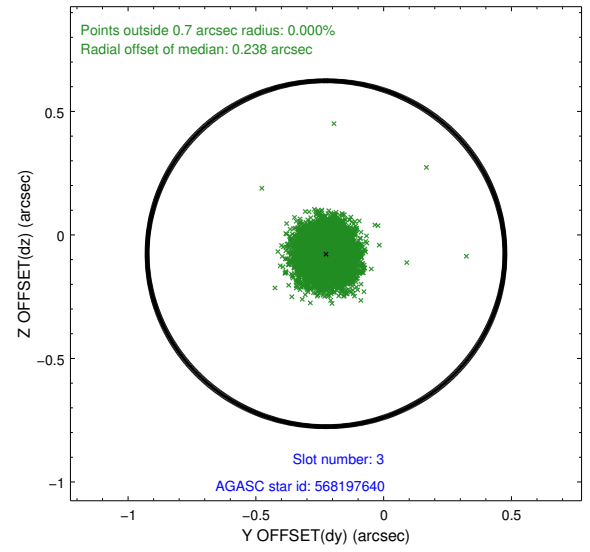
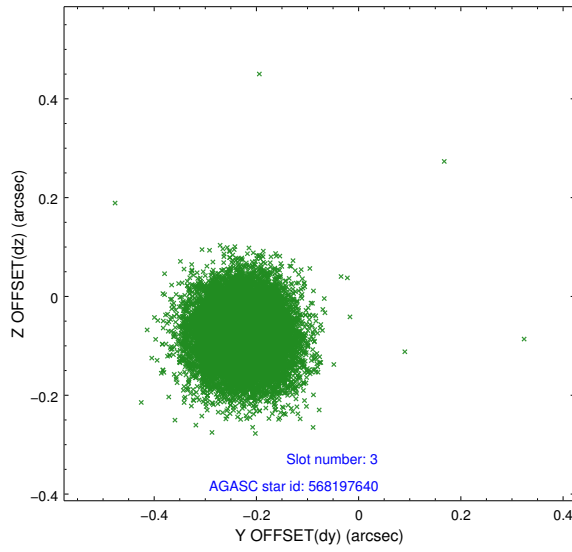


Slot Statistics

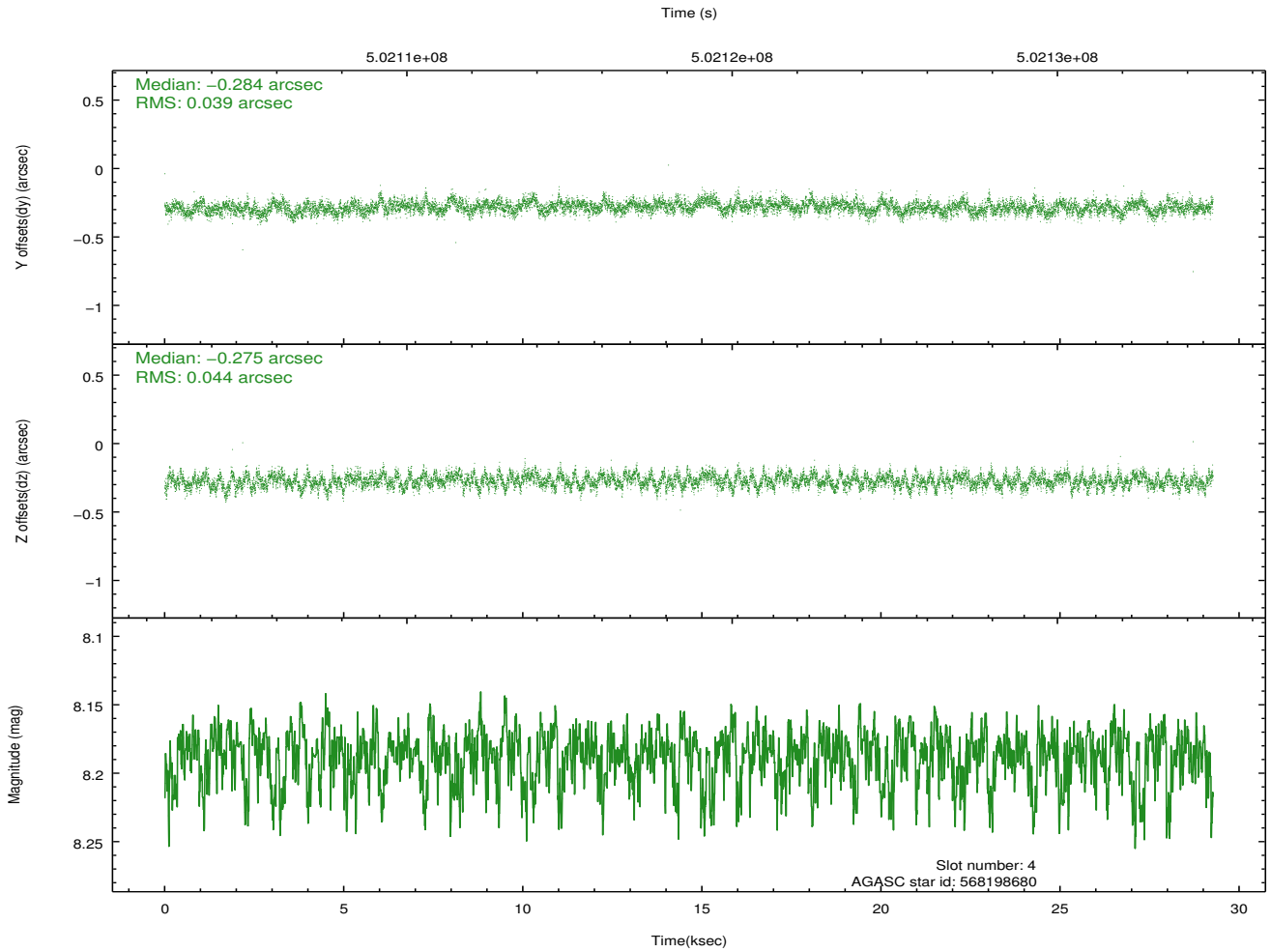
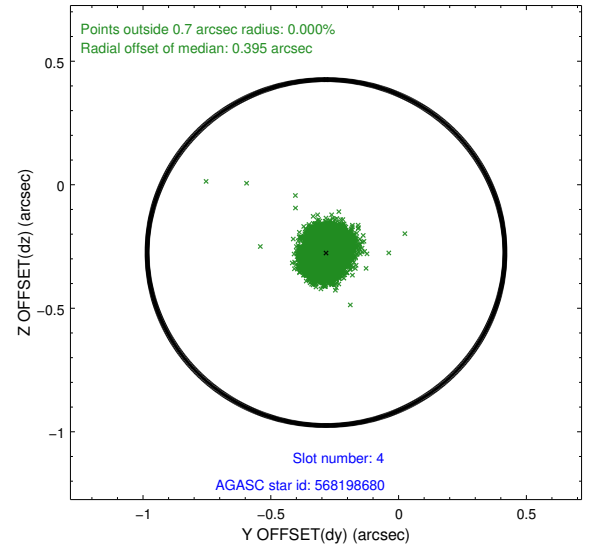
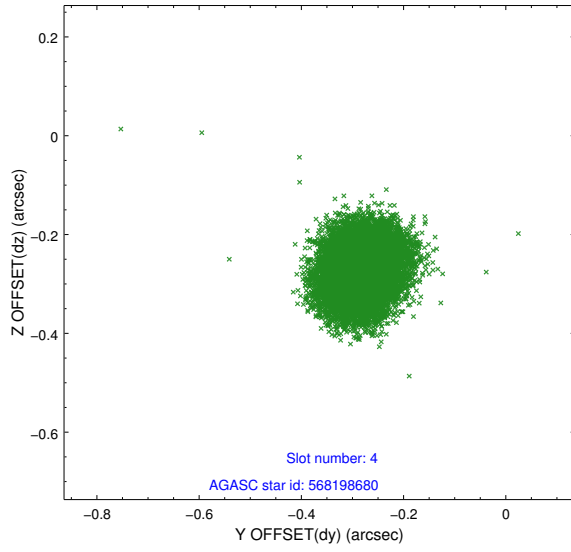
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.17	7139	0.038	0.001	0.014	0.020	0.000000	0.000000	928.44	-1730.98
1	FID		ACIS-S-4	7.17	7139	0.177	-0.015	0.008	0.013	0.000000	0.000000	2146.03	173.08
2	FID		ACIS-S-5	7.20	7139	-0.244	0.025	0.015	0.024	0.000000	0.000000	-1820.60	166.81
3	GUIDE	used	568197640	8.71	14273	-0.226	-0.076	0.078	0.126	59.078053	71.281762	2228.73	1401.48
4	GUIDE	used	568198680	8.19	14274	-0.284	-0.275	0.063	0.101	59.410139	71.449860	1777.13	845.97
5	GUIDE	used	568330600	9.21	14266	0.056	-0.032	0.121	0.188	62.784444	71.373574	-2054.26	1465.86
6	GUIDE	used	568333744	9.42	14265	0.154	0.199	0.159	0.252	62.697048	71.995817	-2096.37	-775.01
7	GUIDE	used	568333952	9.32	14264	0.302	0.193	0.128	0.200	61.257515	72.228674	-570.69	-1730.87

2.4 Star Slots

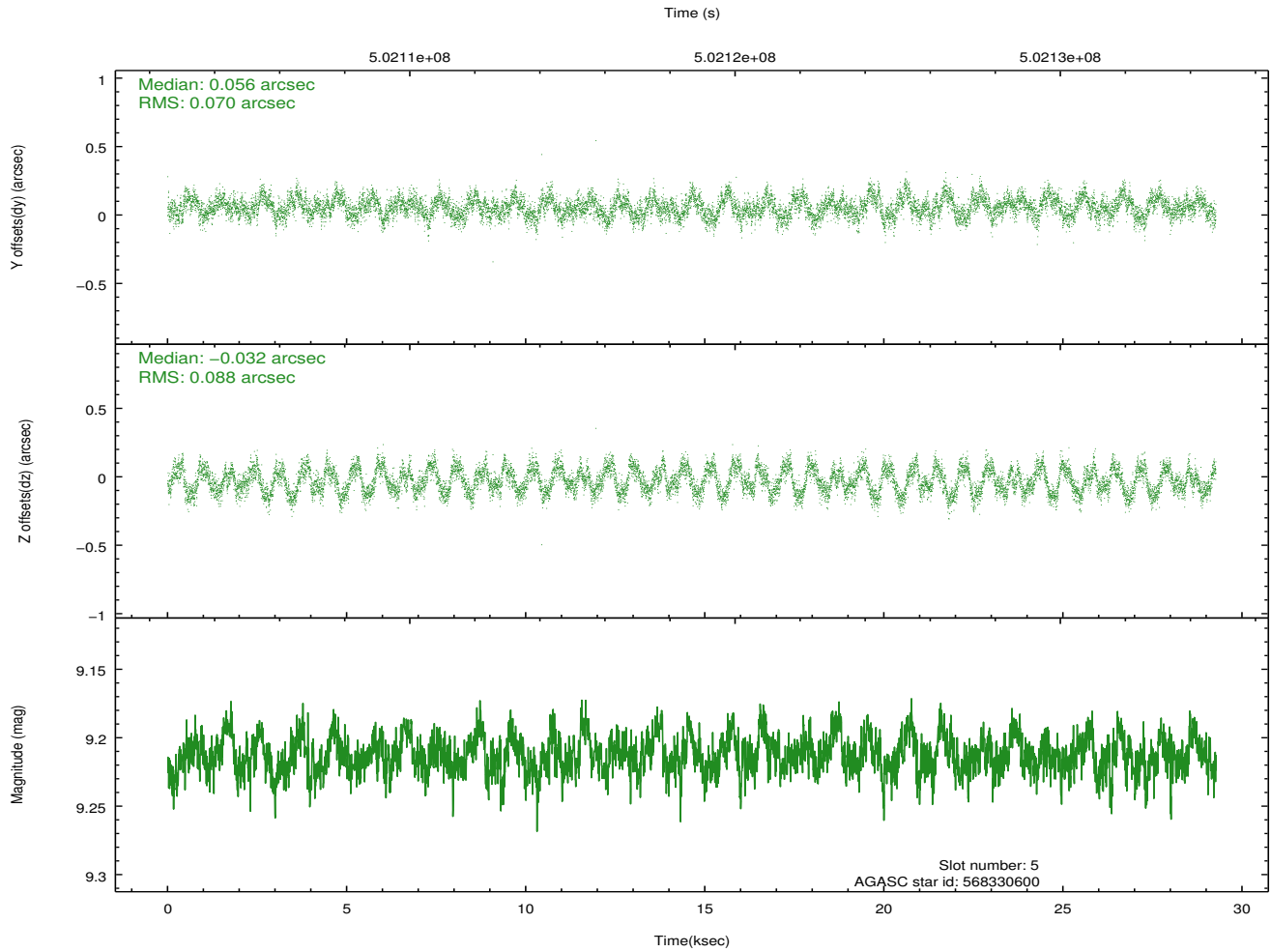
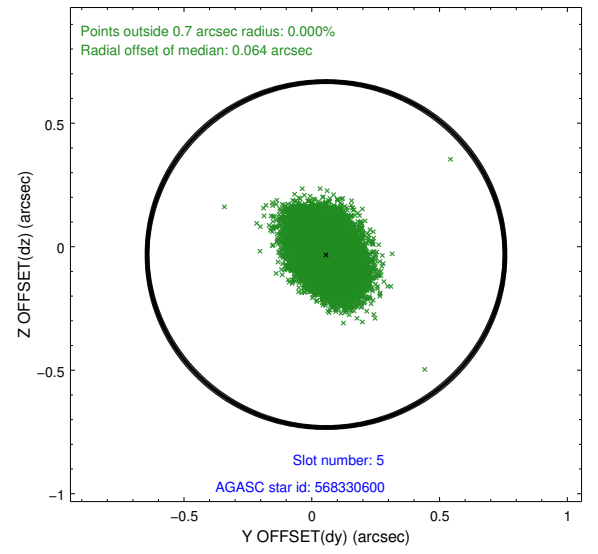
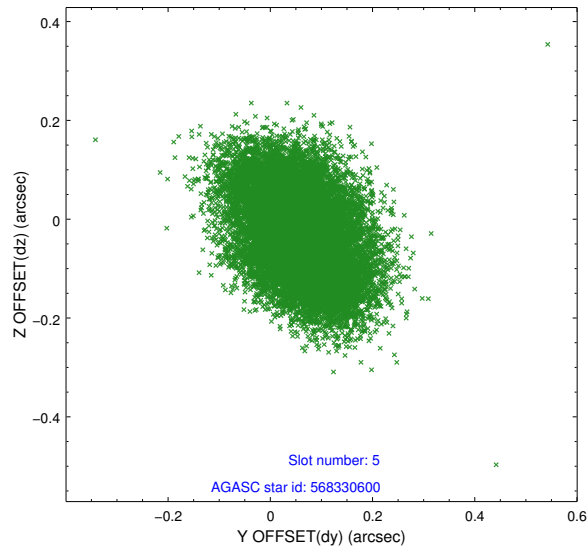
2.4.1 Slot 3



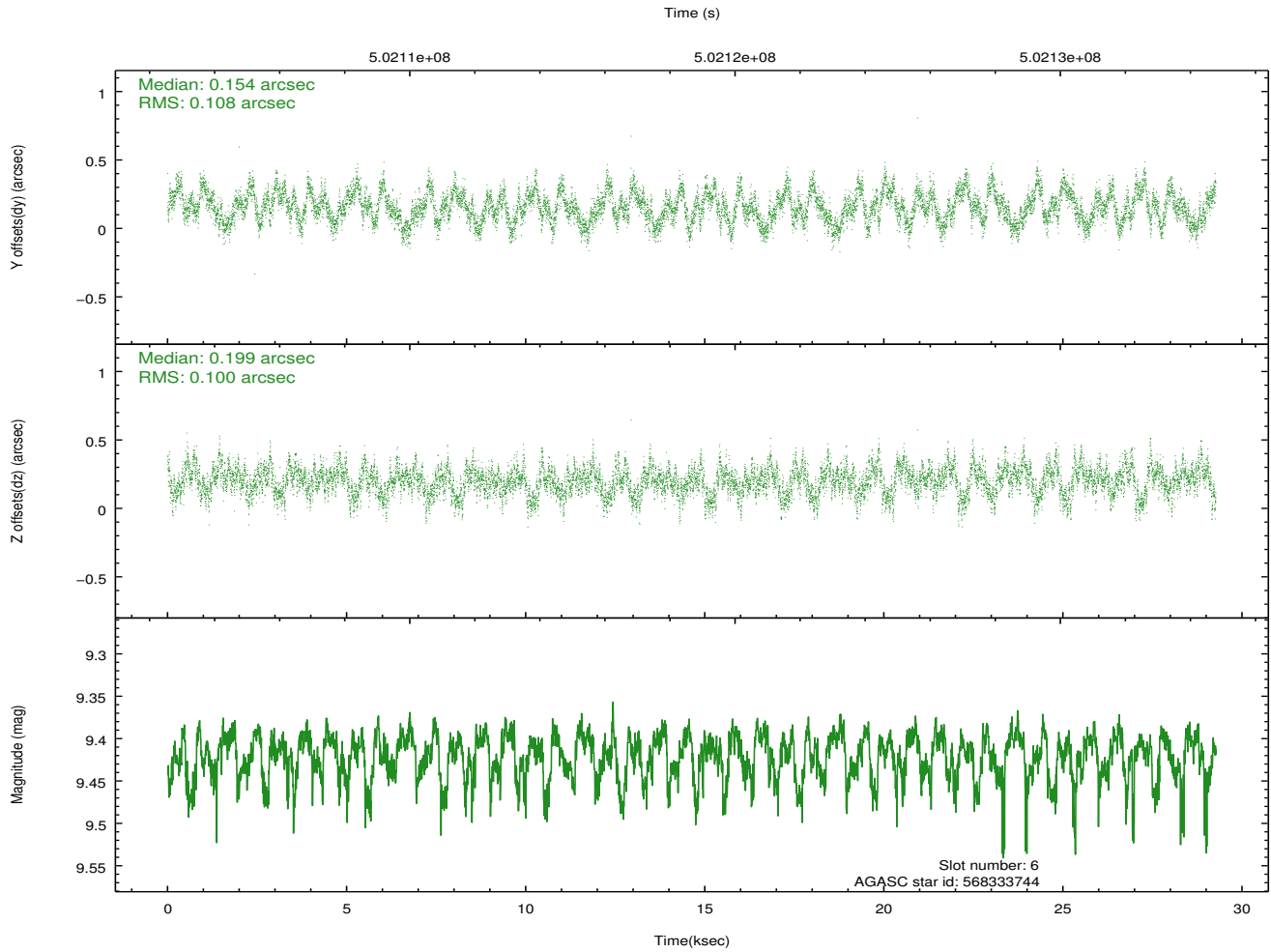
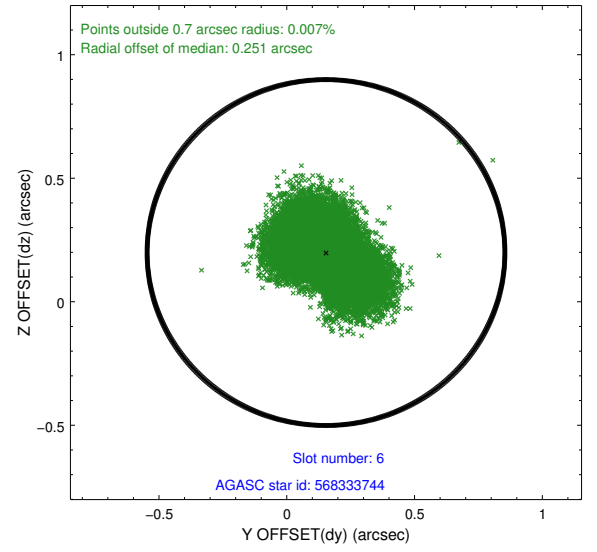
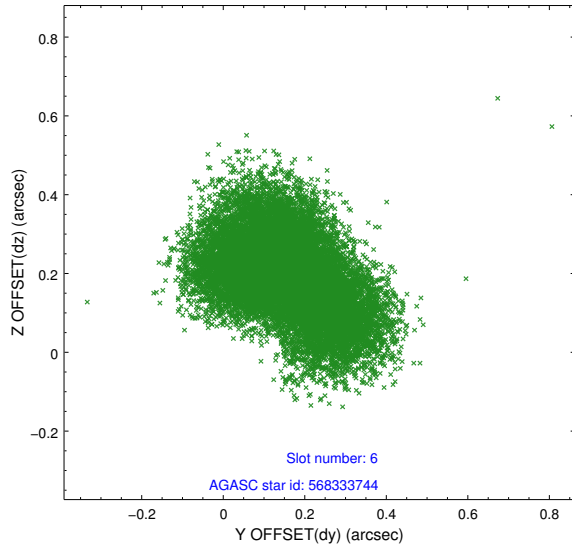
2.4.2 Slot 4



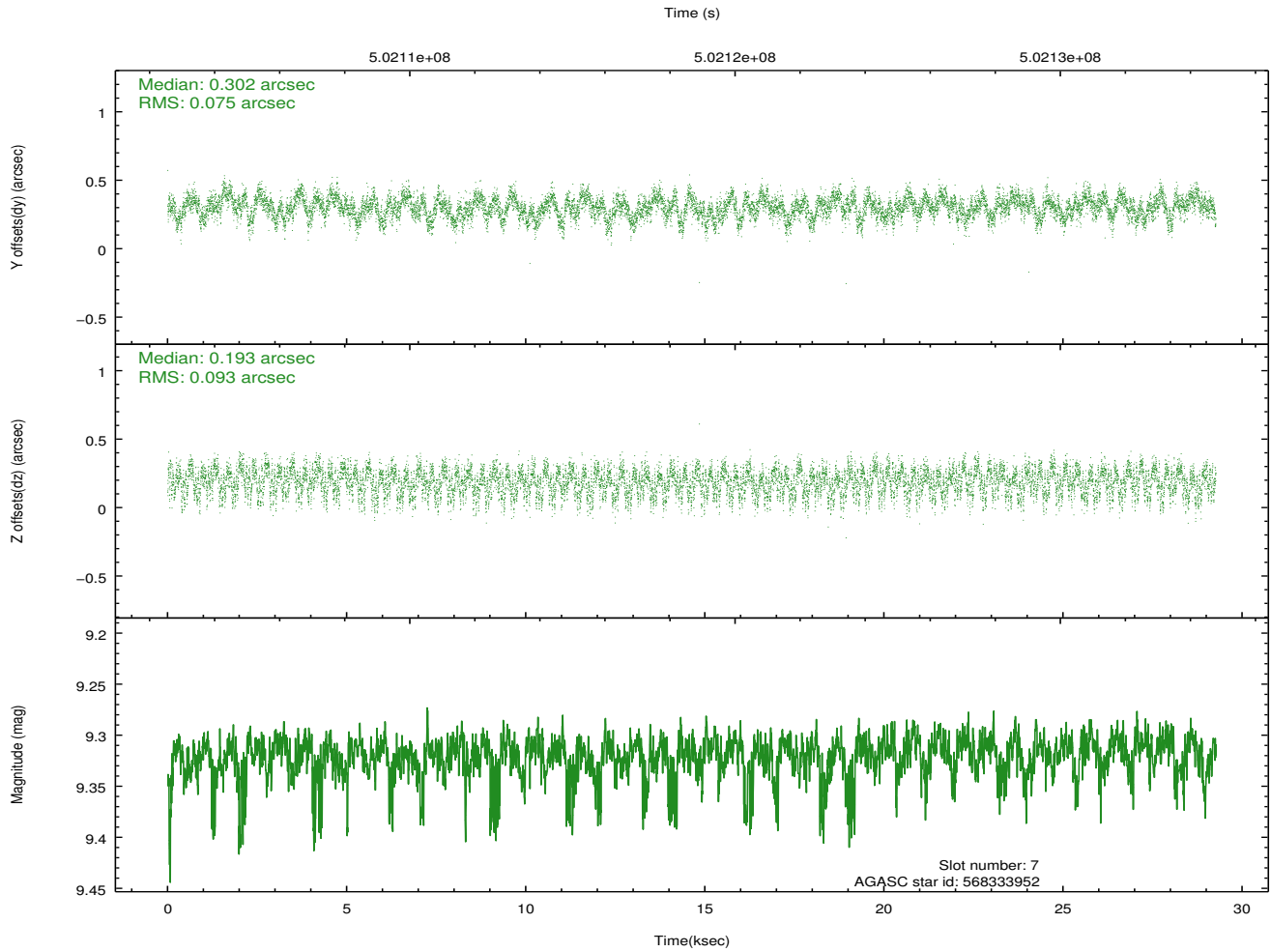
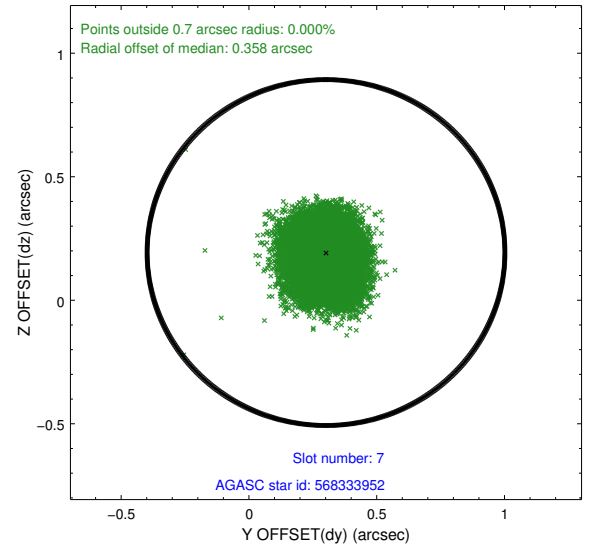
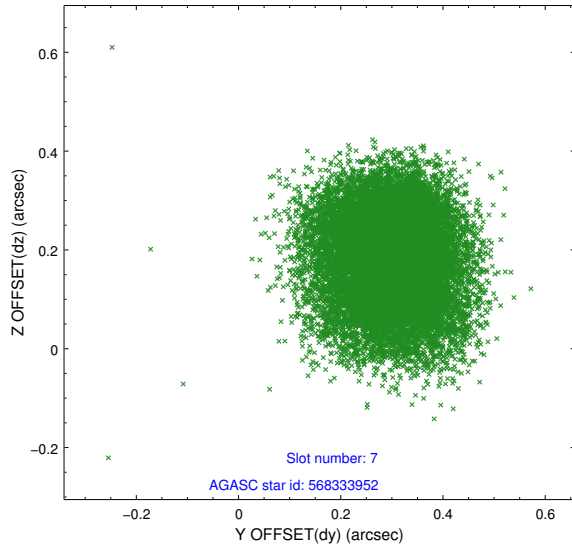
2.4.3 Slot 5



2.4.4 Slot 6

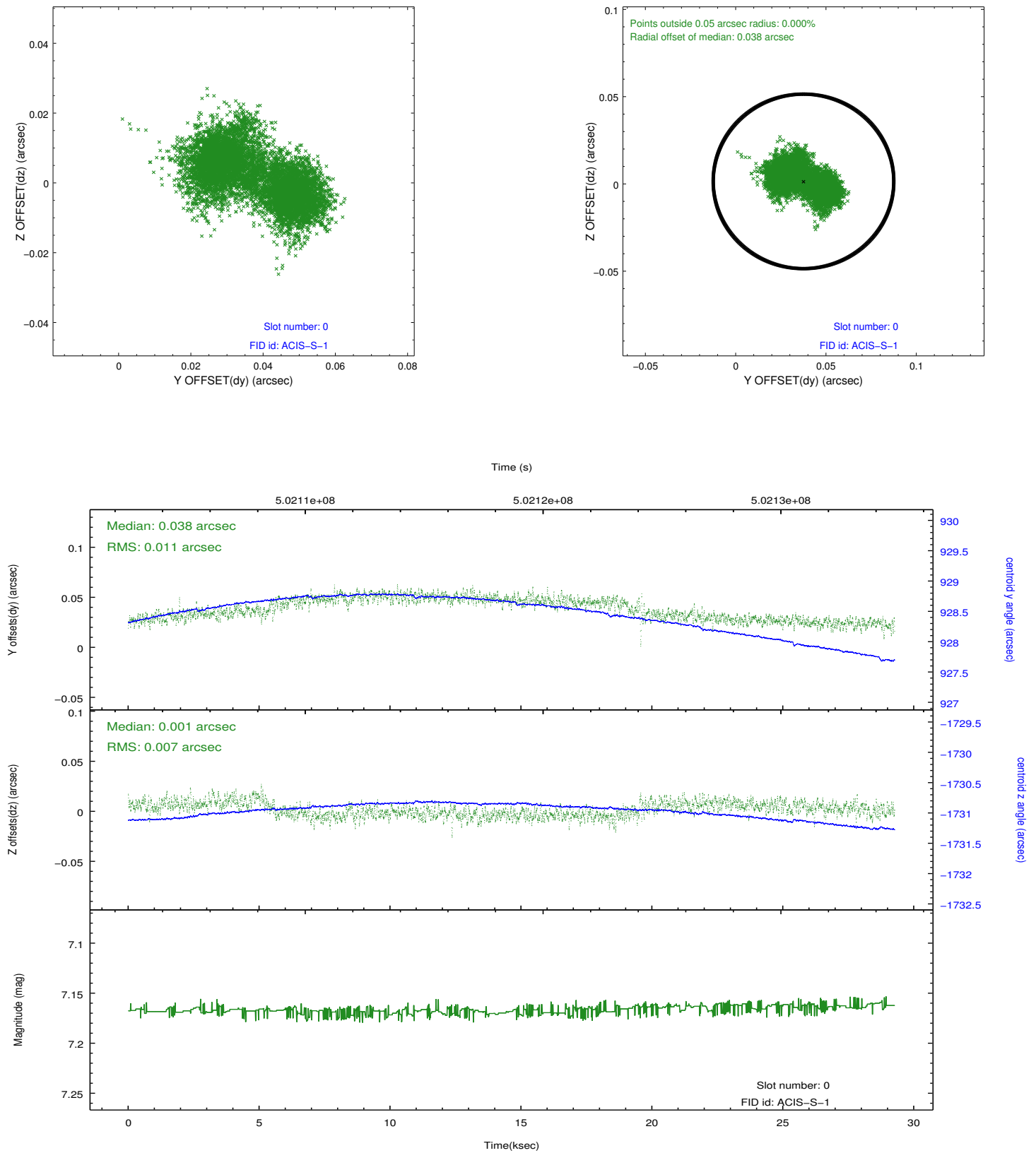


2.4.5 Slot 7

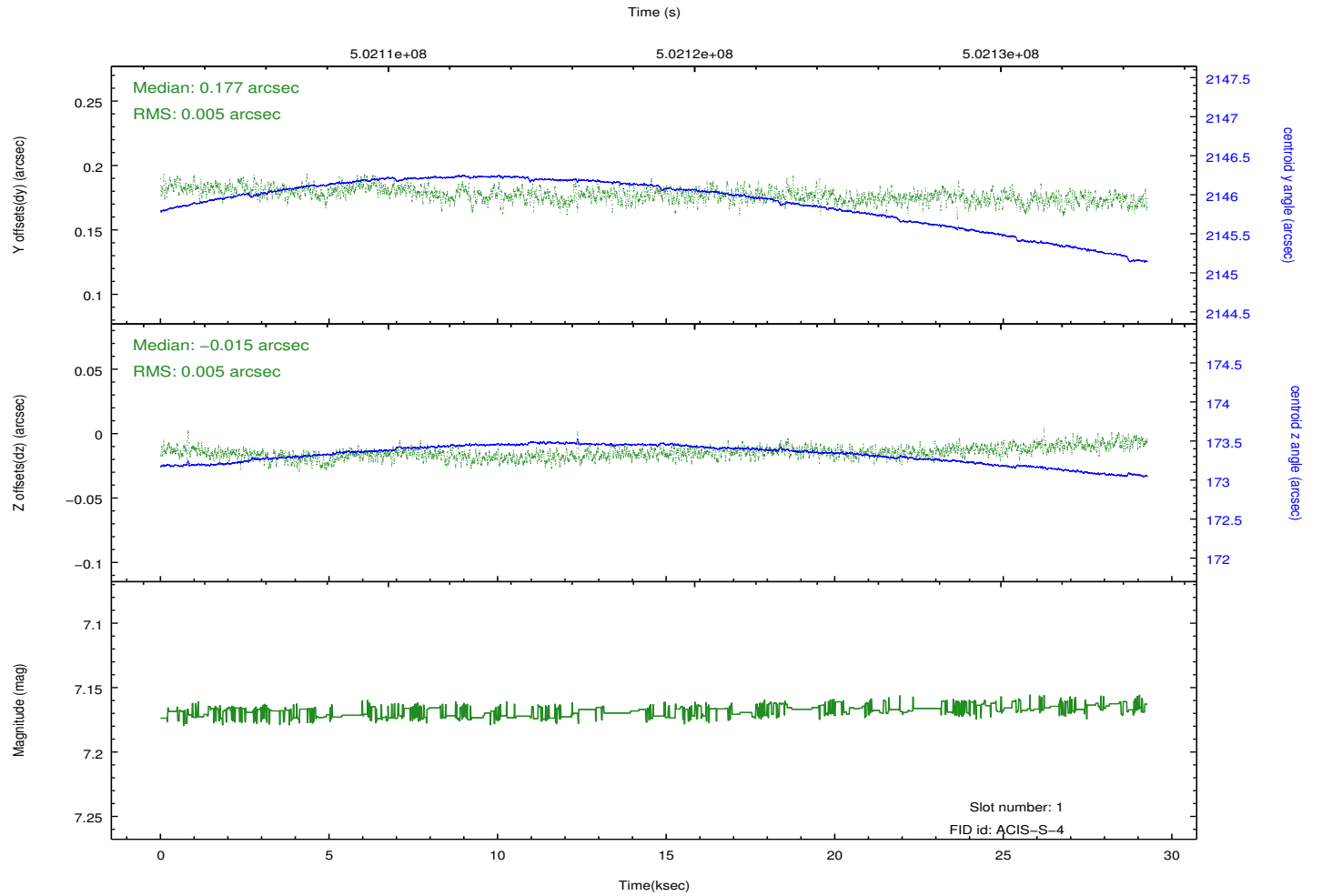
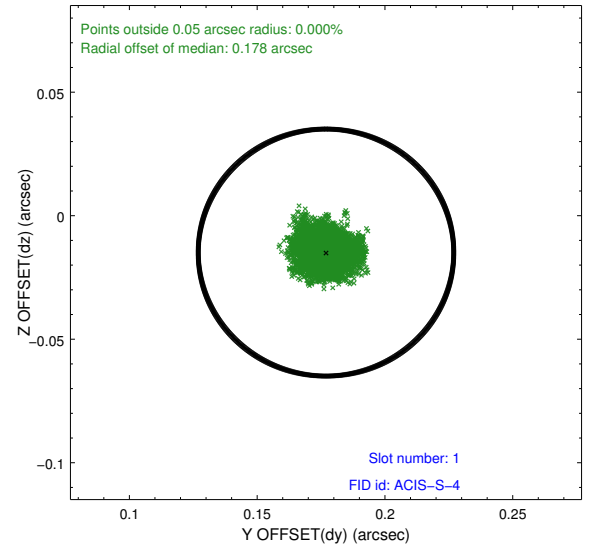
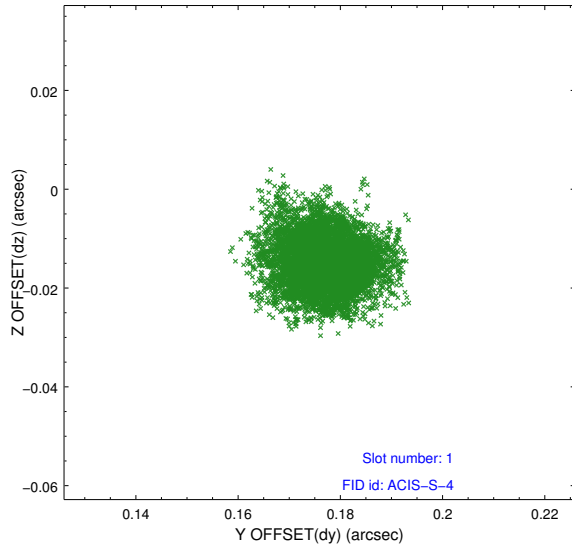


2.5 FID Slots

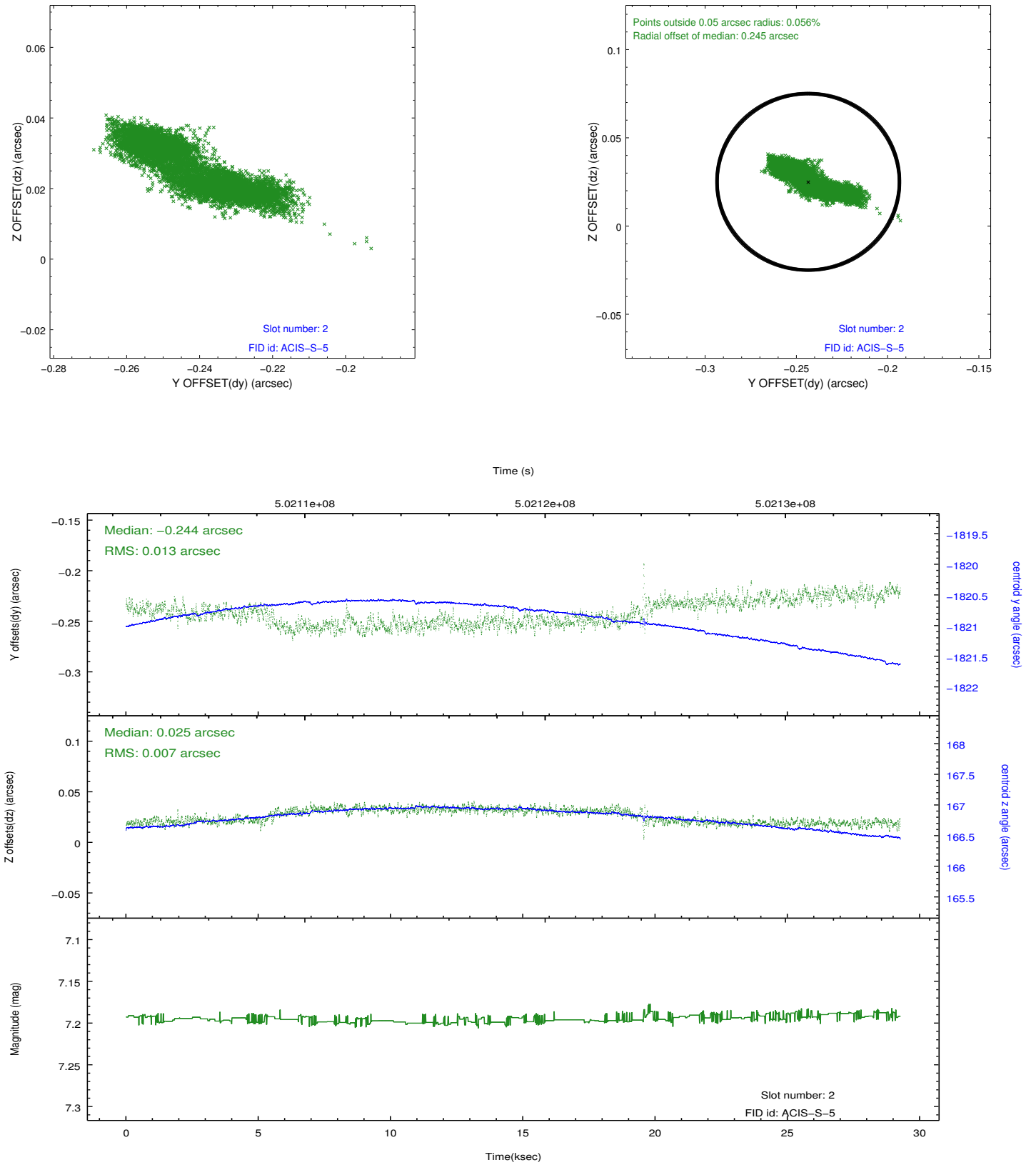
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.061735336483

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.