

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15591 - L2 Version 2
Chandra X-Ray Center

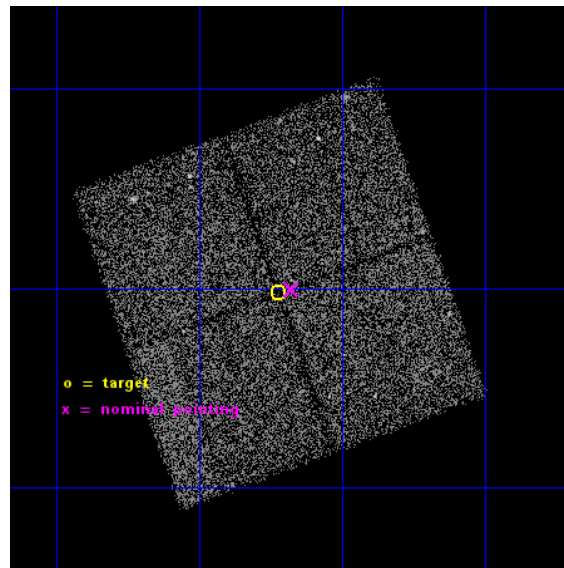
L2 Processing Date : Nov 29 2014

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1 Front

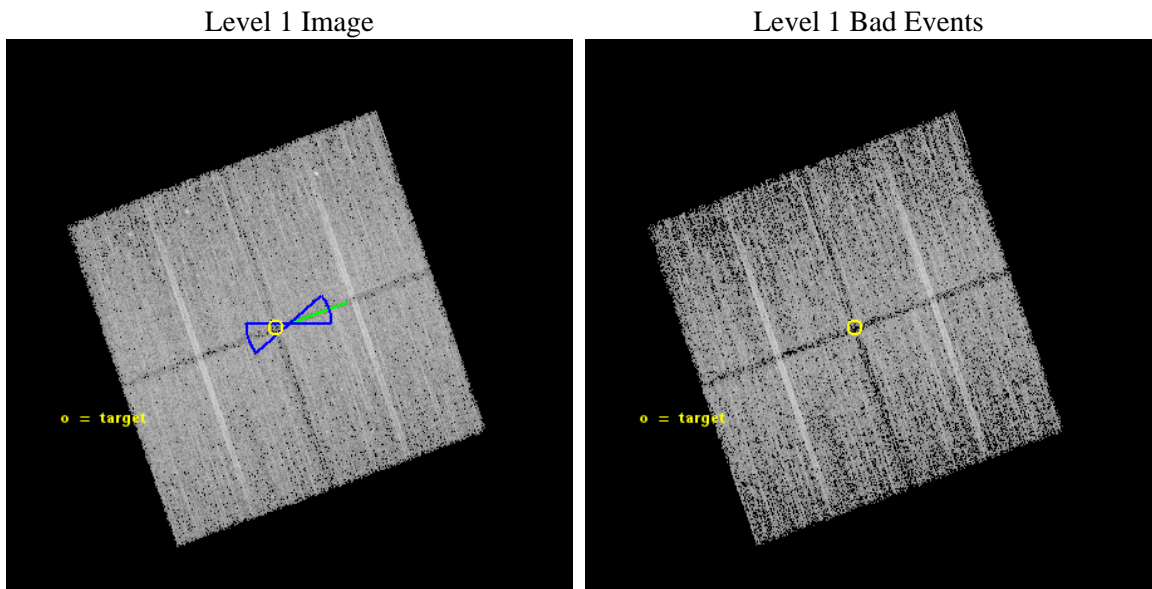
seq_num	901037	Sequence number
obs_id	15591	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.55584	Observer's specified target RA [deg]
dec_targ	2.496472	Observer's specified target Dec [deg]
ra_nom	150.54445410326	Nominal RA [deg]
dec_nom	2.4990658866918	Nominal Dec [deg]
roll_nom	70.2091842253	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20091.100154519	Sum of GTIs [s]
livetime	19828.595140148	Livetime [s]
ontime0	20091.100154519	Sum of GTIs [s]
ontime1	20091.100154519	Sum of GTIs [s]
ontime2	20091.100154519	Sum of GTIs [s]
ontime3	20091.100154519	Sum of GTIs [s]
l2events	40773	Number of level 2 events



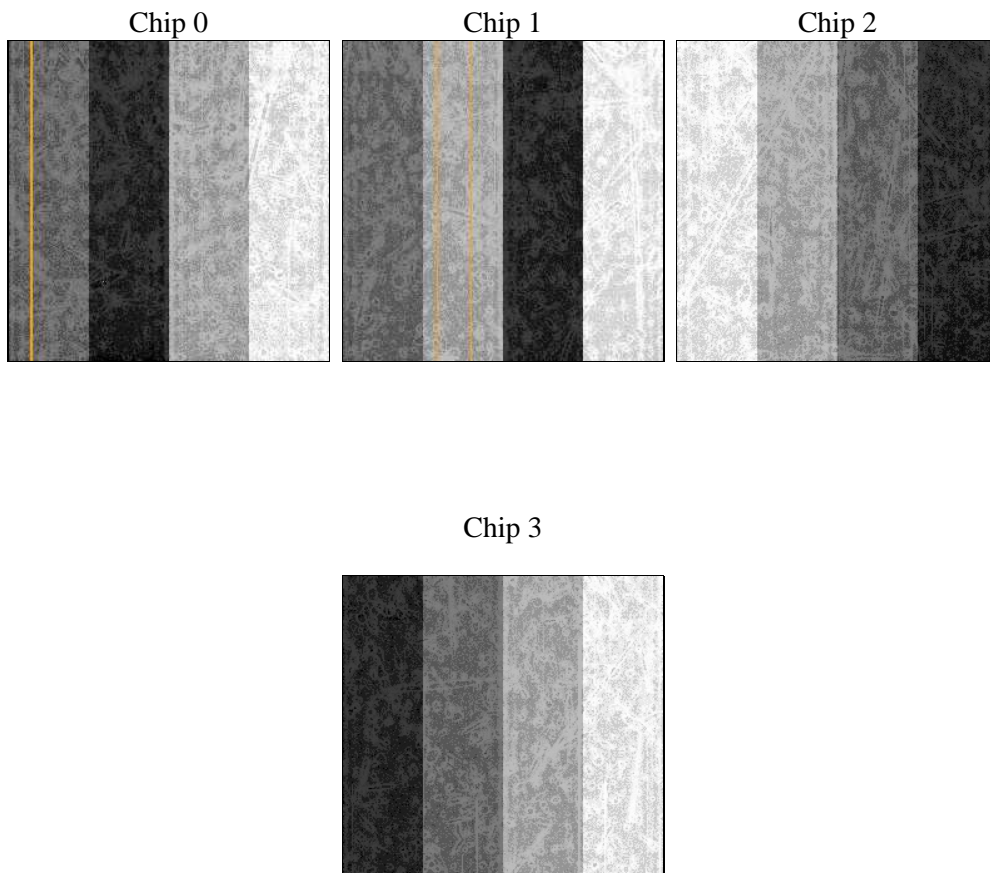
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20091.100154519	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	20091.100154519	Sum of GTIs [s]
date	2014-11-30T01:41:19	Date and time of file creation	ontime1	20091.100154519	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20091.100154519	Sum of GTIs [s]
			ontime3	20091.100154519	Sum of GTIs [s]
			l1events	378202	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	91772	94709	97779	93942
rejected events	79520	81670	85920	82669
rejected %	86%	86%	87%	88%

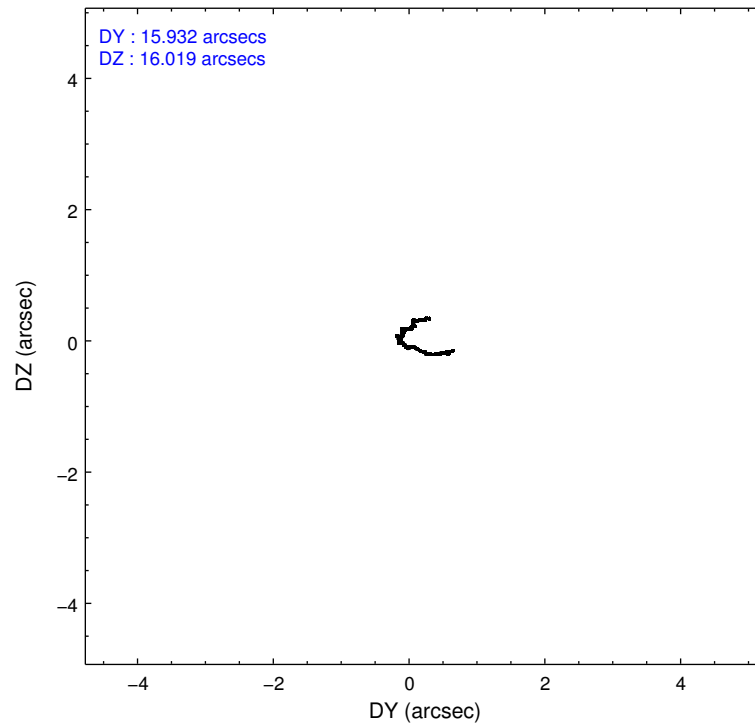
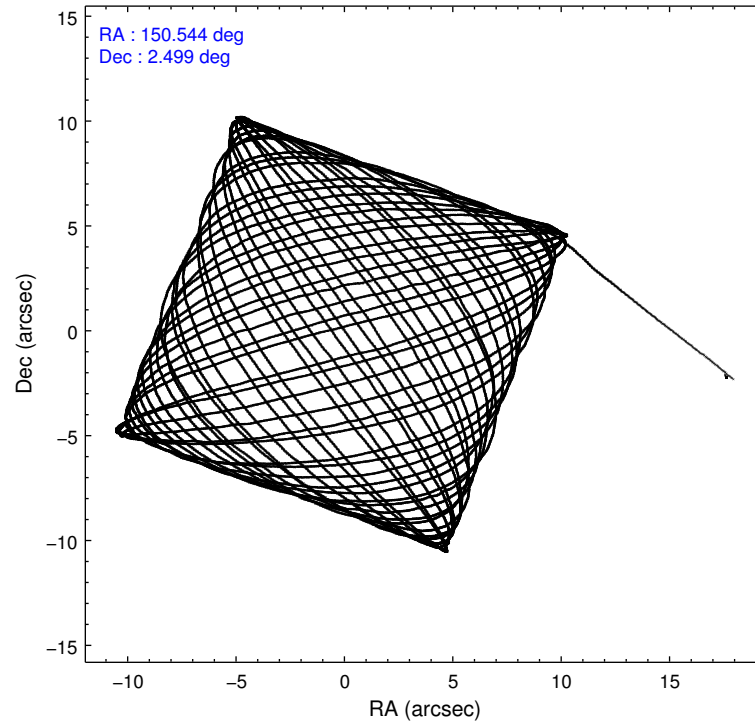
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4392	4605	4379	4086
	4%	4%	4%	4%
grade 1 events	39	50	55	50
	0%	0%	0%	0%
grade 2 events	2939	3122	2866	2508
	3%	3%	2%	2%
grade 3 events	1232	1279	1178	1183
	1%	1%	1%	1%
grade 4 events	1161	1265	1206	1246
	1%	1%	1%	1%
grade 5 events	4720	4913	4387	5220
	5%	5%	4%	5%
grade 6 events	2529	2769	2230	2250
	2%	2%	2%	2%
grade 7 events	74760	76706	81478	77399
	81%	80%	83%	82%

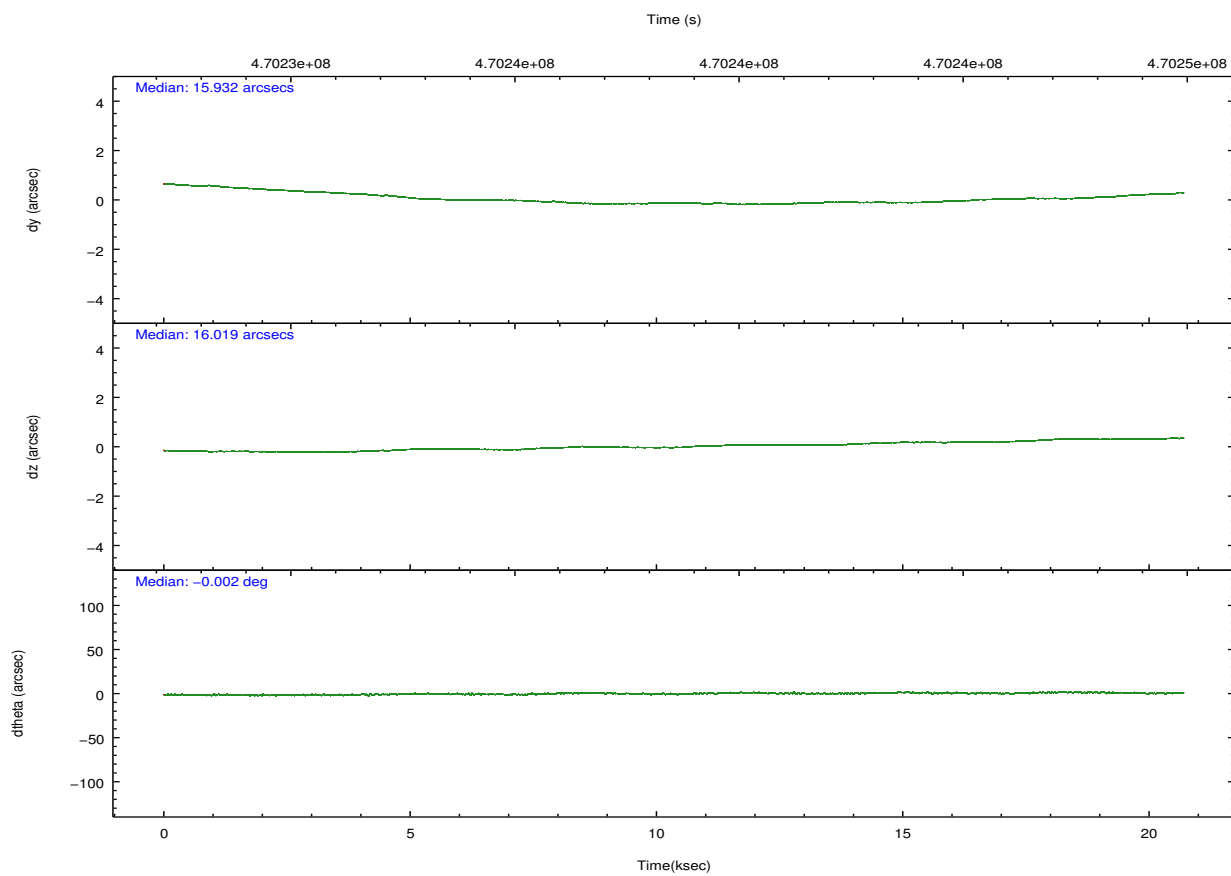
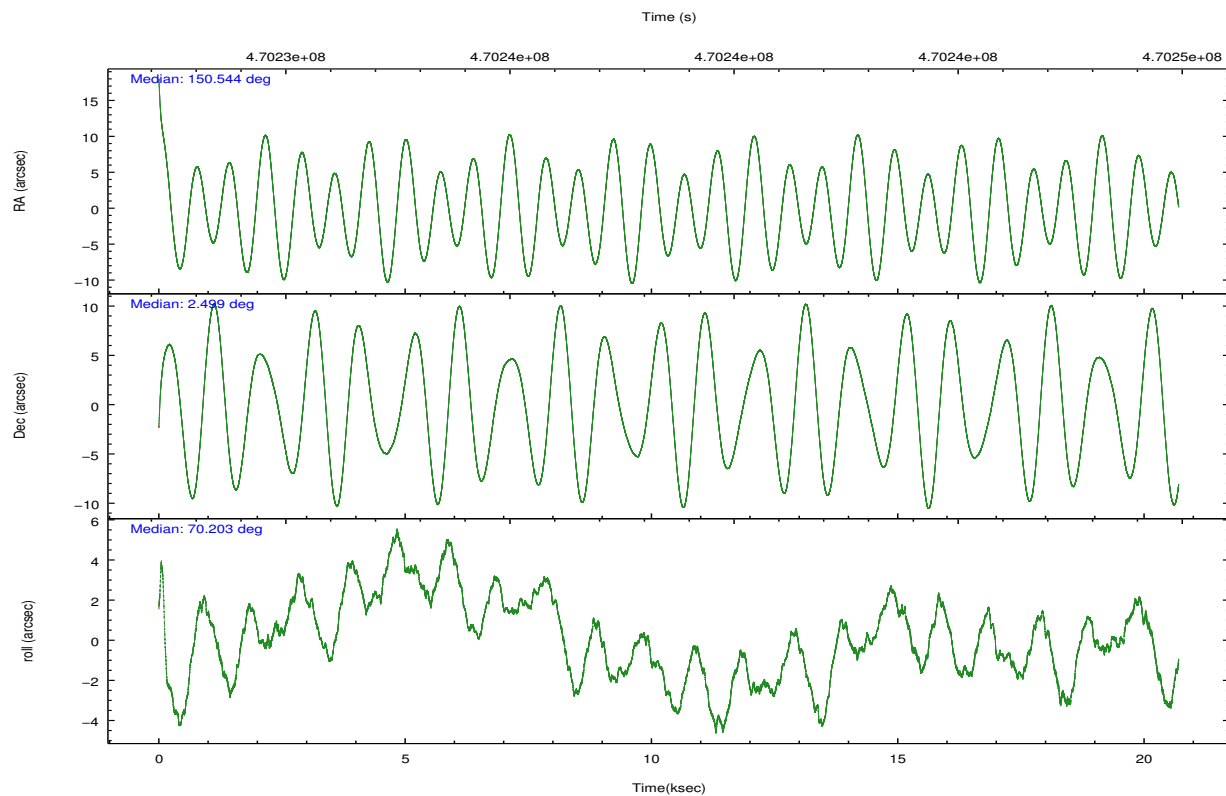
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	150.549418	150.5444541032624
[deg] Pointing Dec	2.472018	2.499065886691825
[deg] Pointing Roll	70.000285	70.20918422529979
[deg] Roll angle	250.000000	250.000000
[deg] Roll tolerance	20.000000	20.000000
Roll constraint allows 180D rotation	Y	Y
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	470228896.184000	470227337.52124
Observation start date	2012-11-25T11:07:09	2012-11-25T10:42:17
[s] Observation end time (MET)	470248896.184000	470249627.17244
Observation end date	2012-11-25T16:40:29	2012-11-25T16:53:47
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



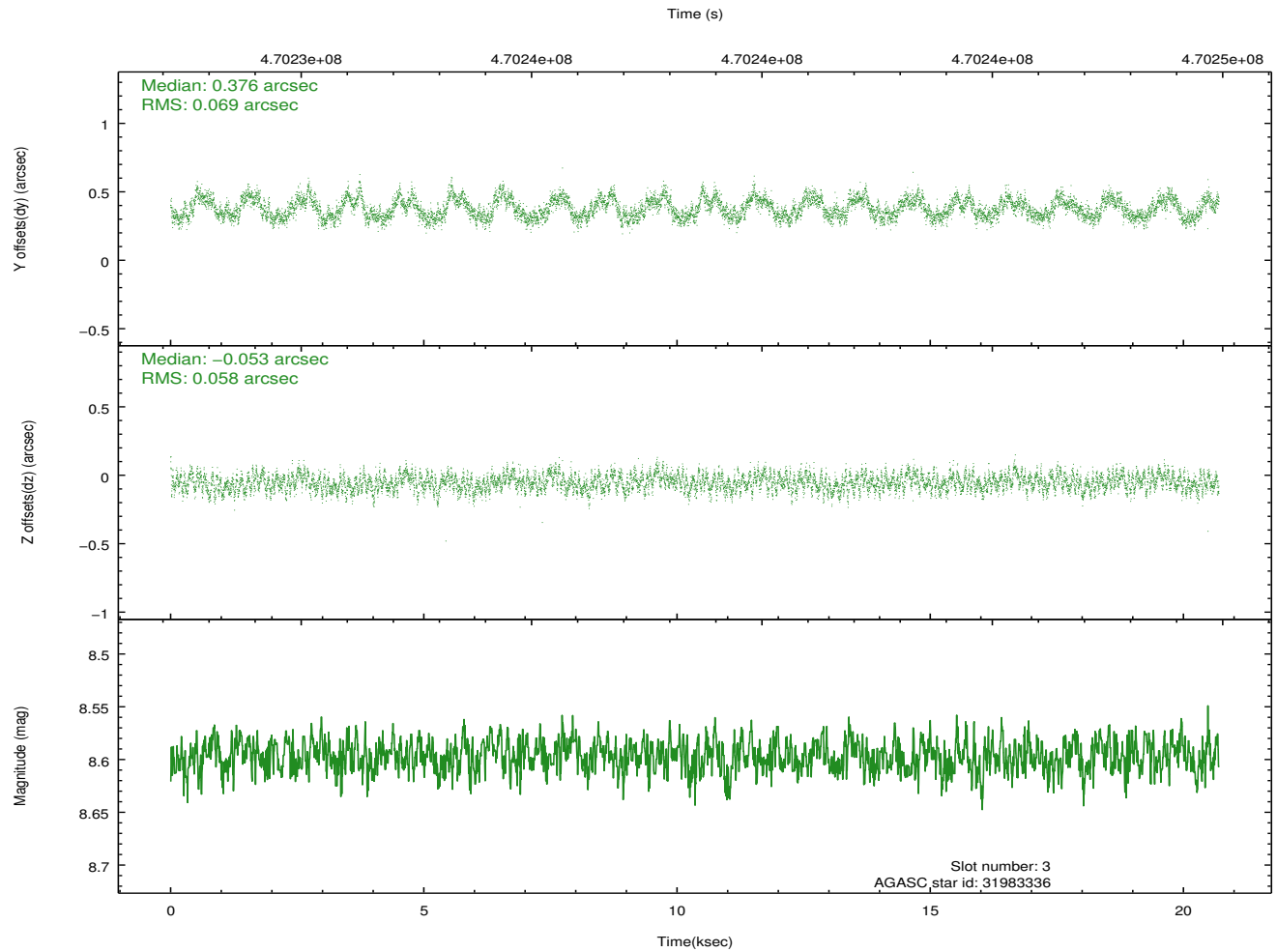
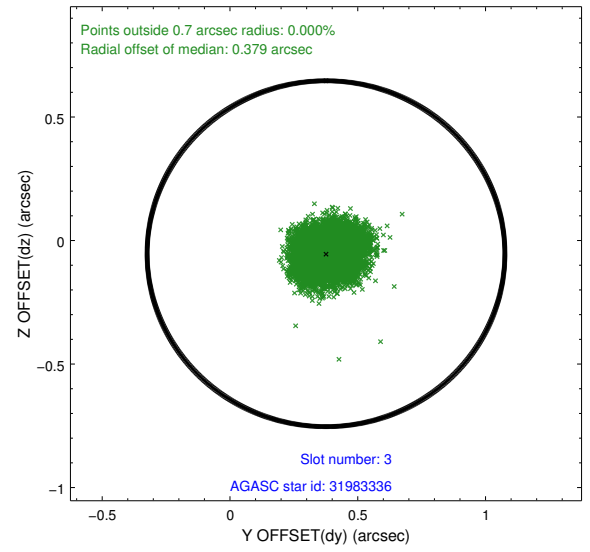
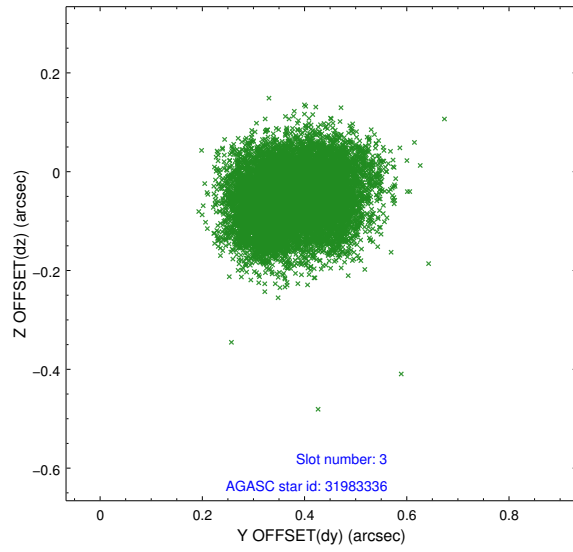


Slot Statistics

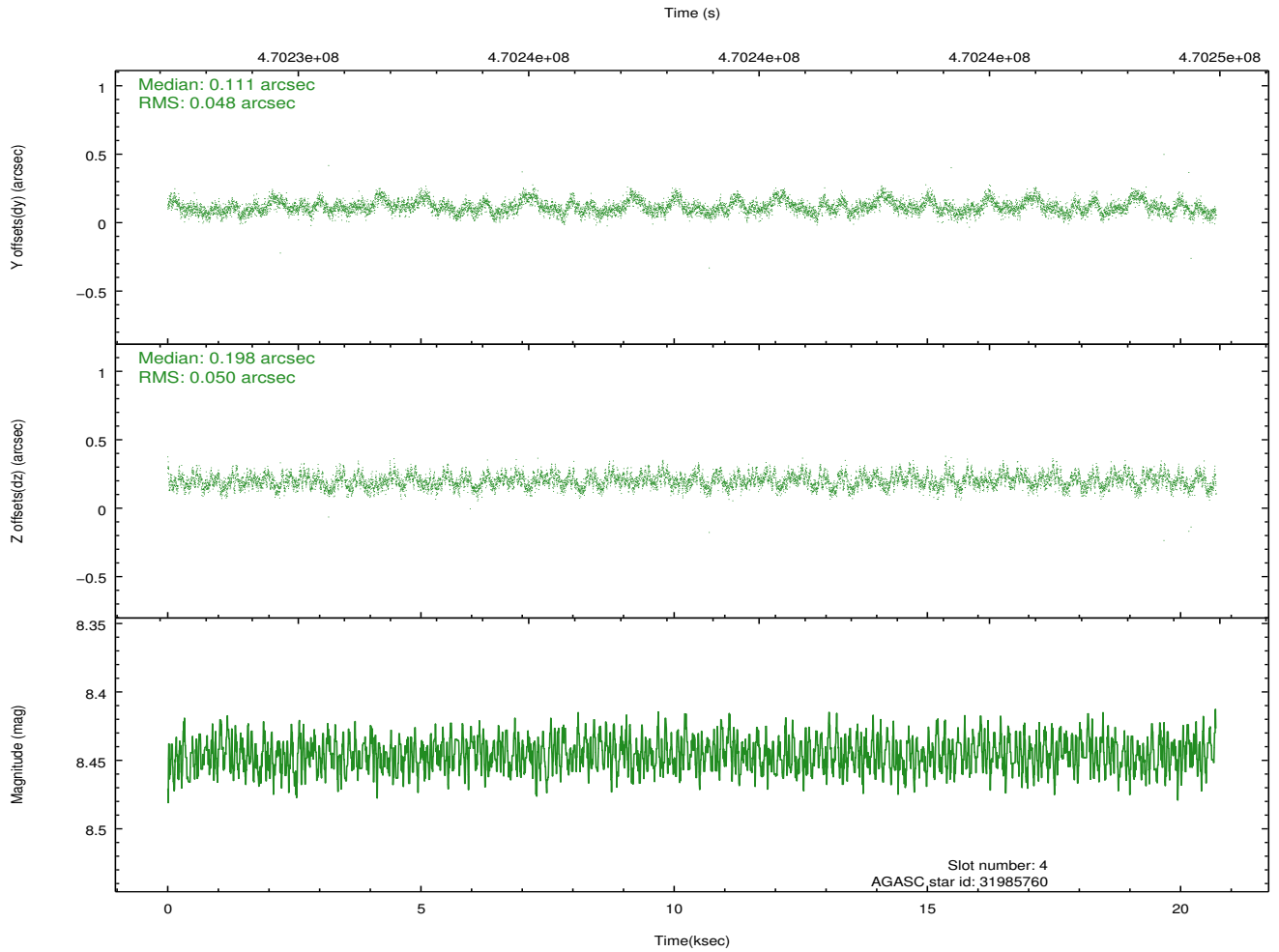
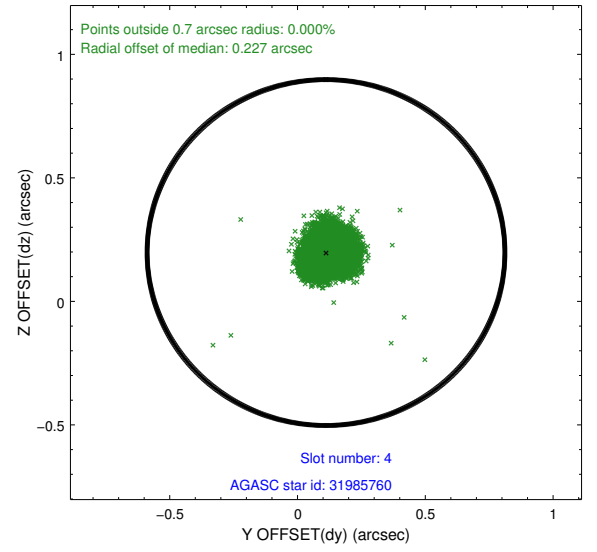
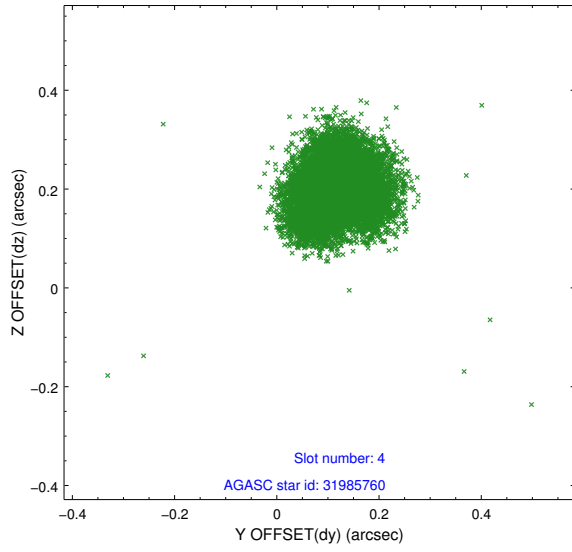
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.11	5050	0.059	-0.039	0.008	0.013	0.000000	0.000000	923.50	-839.71
1	FID		ACIS-I-5	7.11	5050	-0.239	0.051	0.009	0.015	0.000000	0.000000	-1824.82	1057.77
2	FID		ACIS-I-6	7.11	5049	0.088	0.058	0.010	0.018	0.000000	0.000000	388.87	1702.49
3	GUIDE	used	31983336	8.60	10096	0.376	-0.053	0.098	0.148	150.429924	2.291234	-757.86	181.45
4	GUIDE	used	31985760	8.45	10095	0.111	0.198	0.075	0.117	150.924581	2.094394	-815.52	-1732.67
5	GUIDE	used	31986152	8.98	10090	0.007	0.055	0.107	0.170	150.840314	2.057585	-1043.83	-1493.15
6	GUIDE	used	32374896	9.21	10093	-0.173	0.222	0.119	0.188	150.682269	2.512794	301.25	-398.57
7	GUIDE	used	32387968	9.18	10093	-0.323	-0.426	0.104	0.168	150.106347	3.119099	1644.53	2293.49

2.4 Star Slots

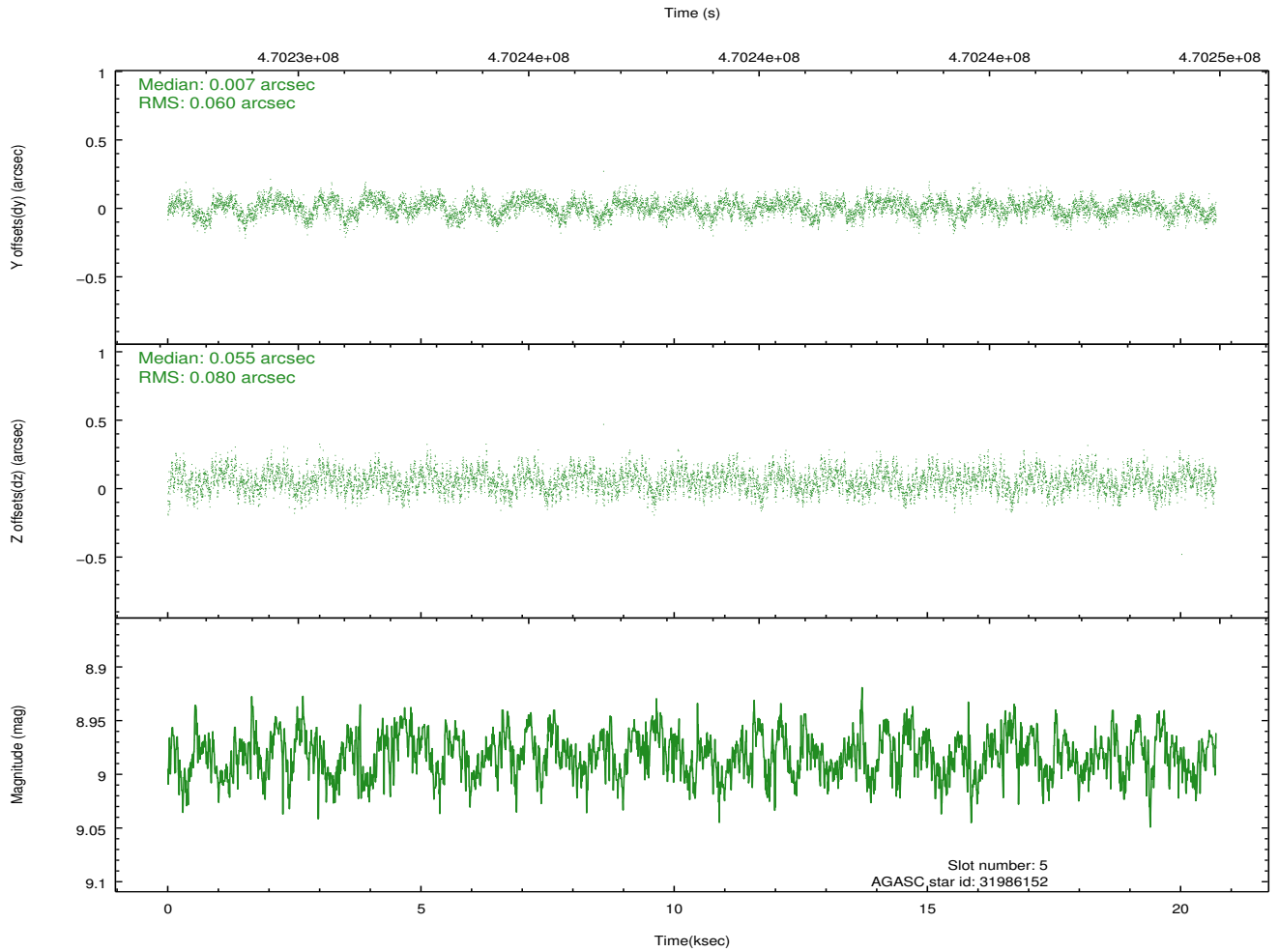
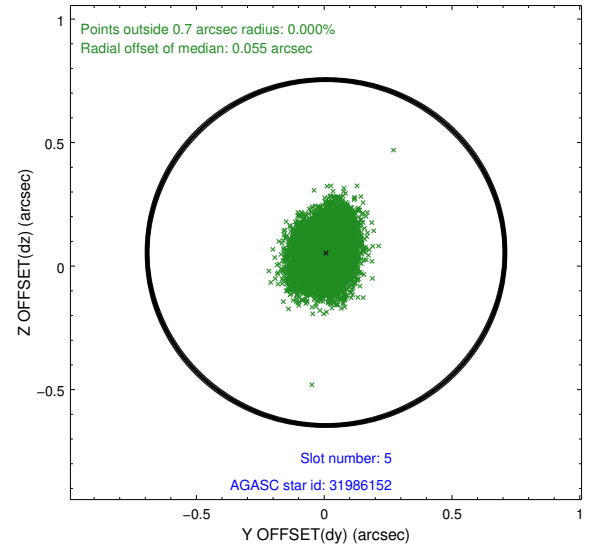
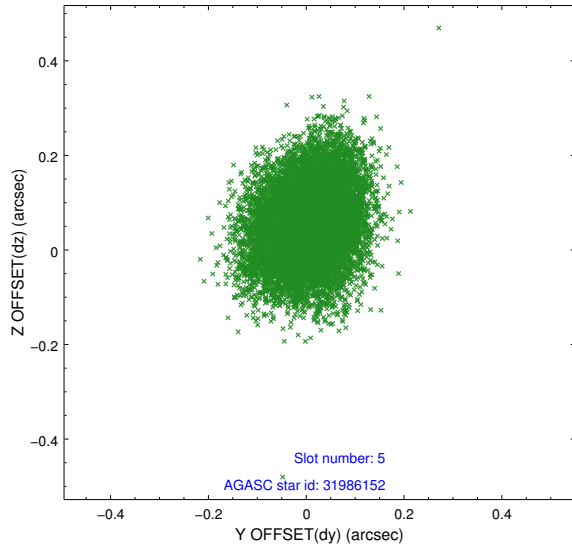
2.4.1 Slot 3



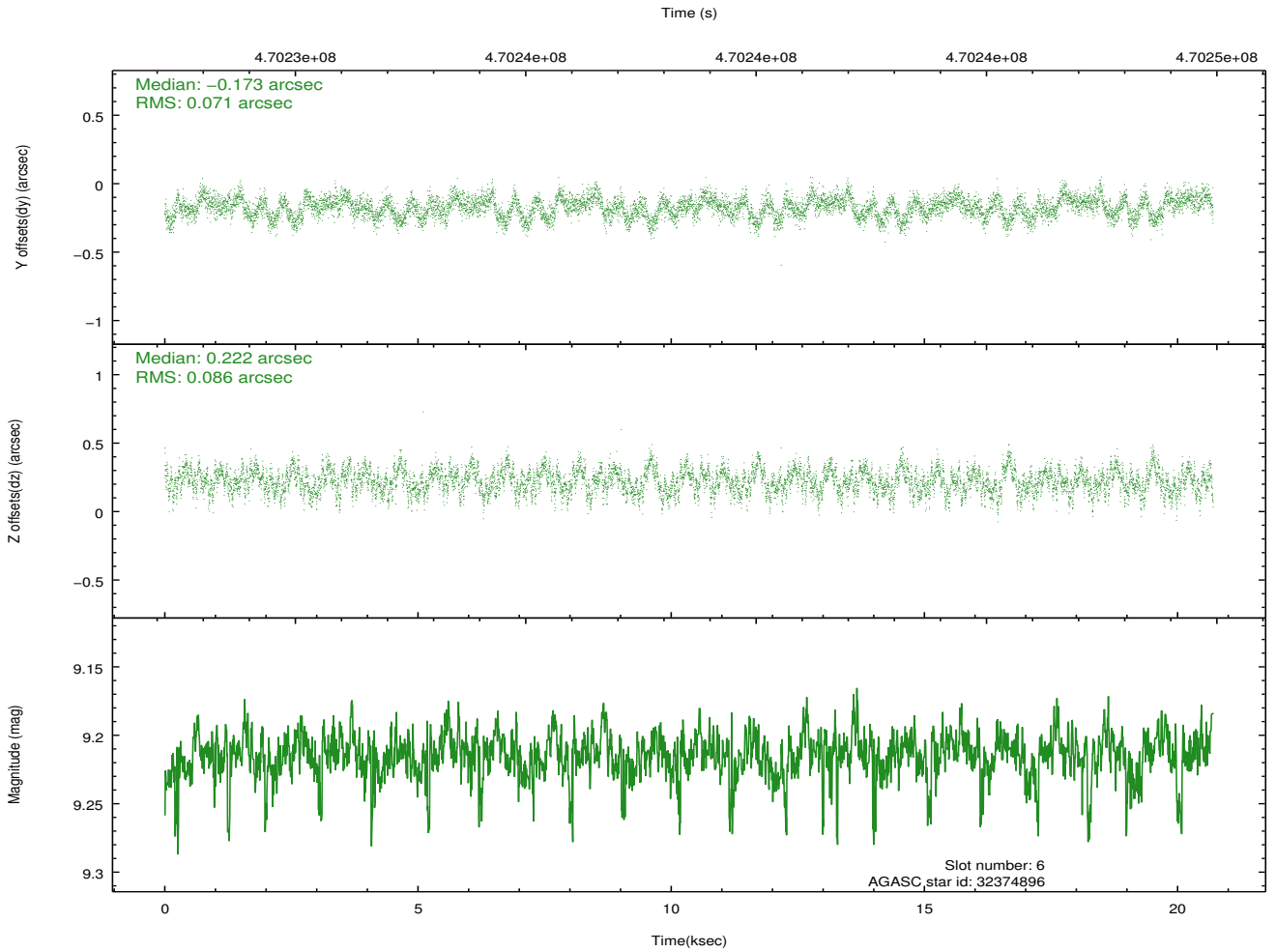
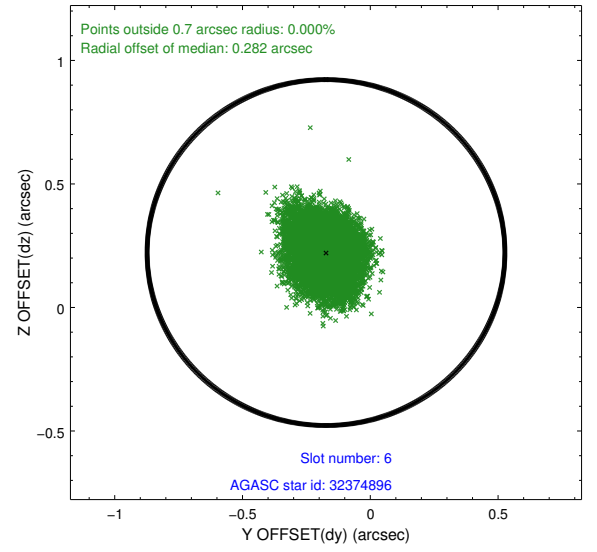
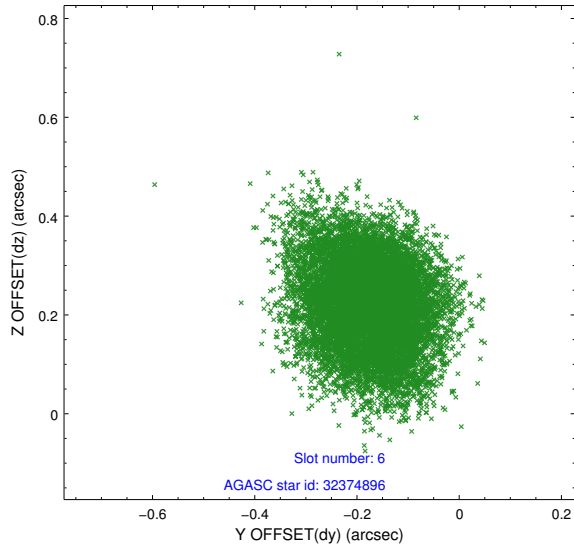
2.4.2 Slot 4



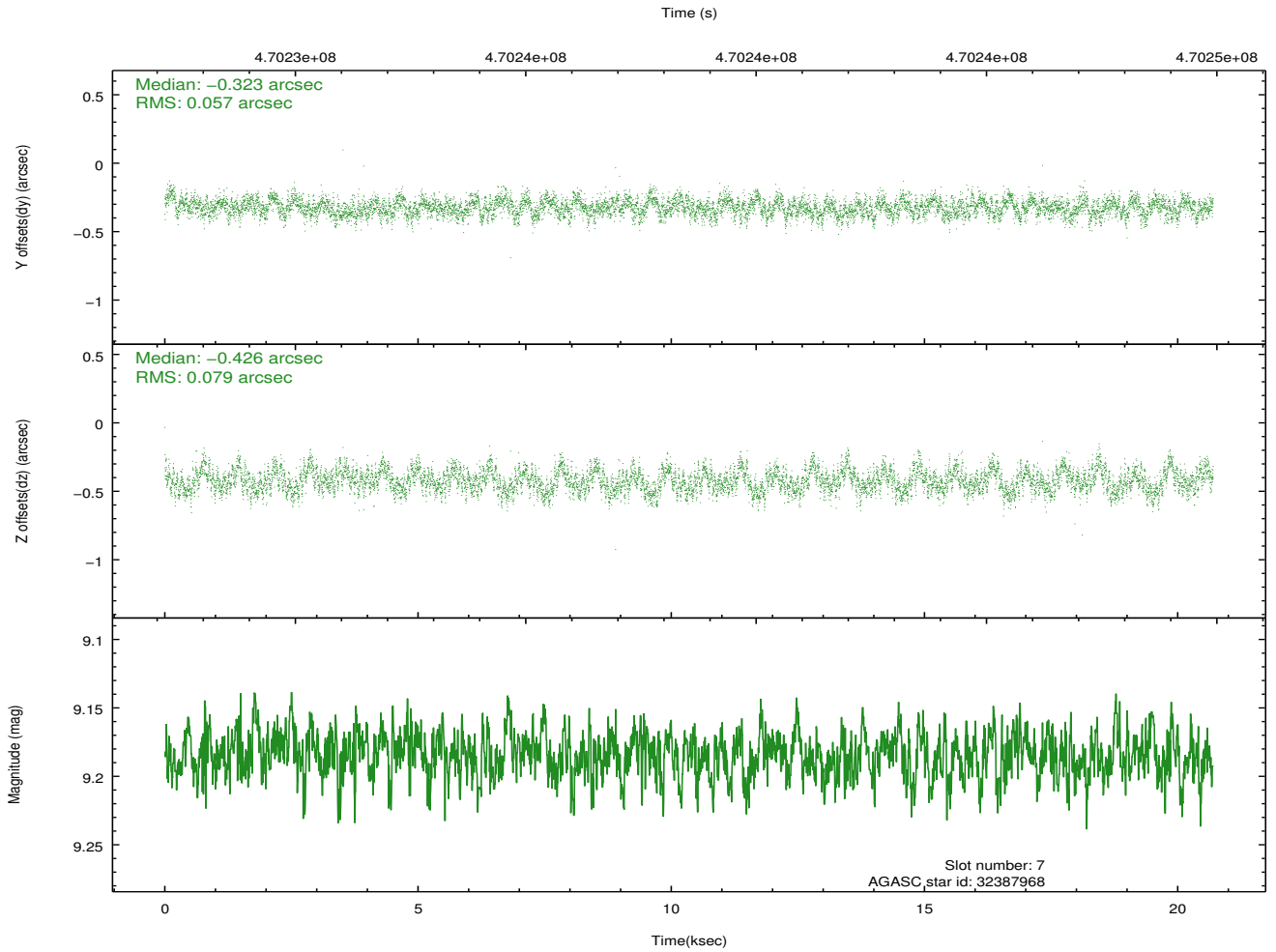
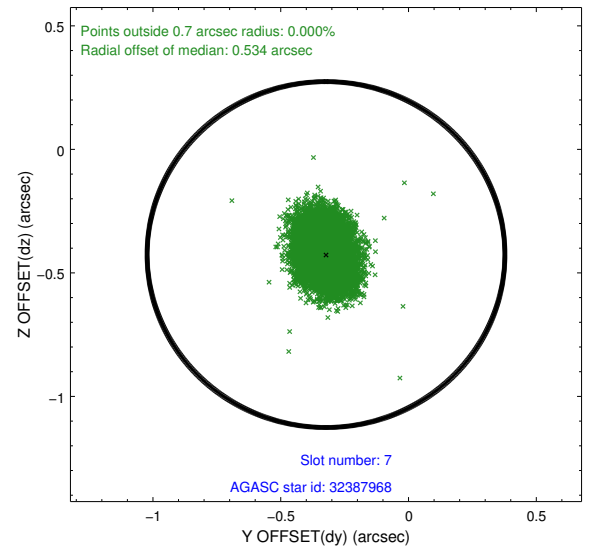
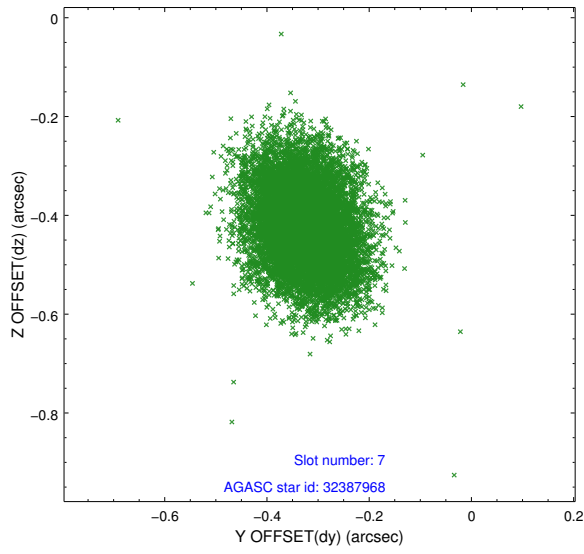
2.4.3 Slot 5



2.4.4 Slot 6

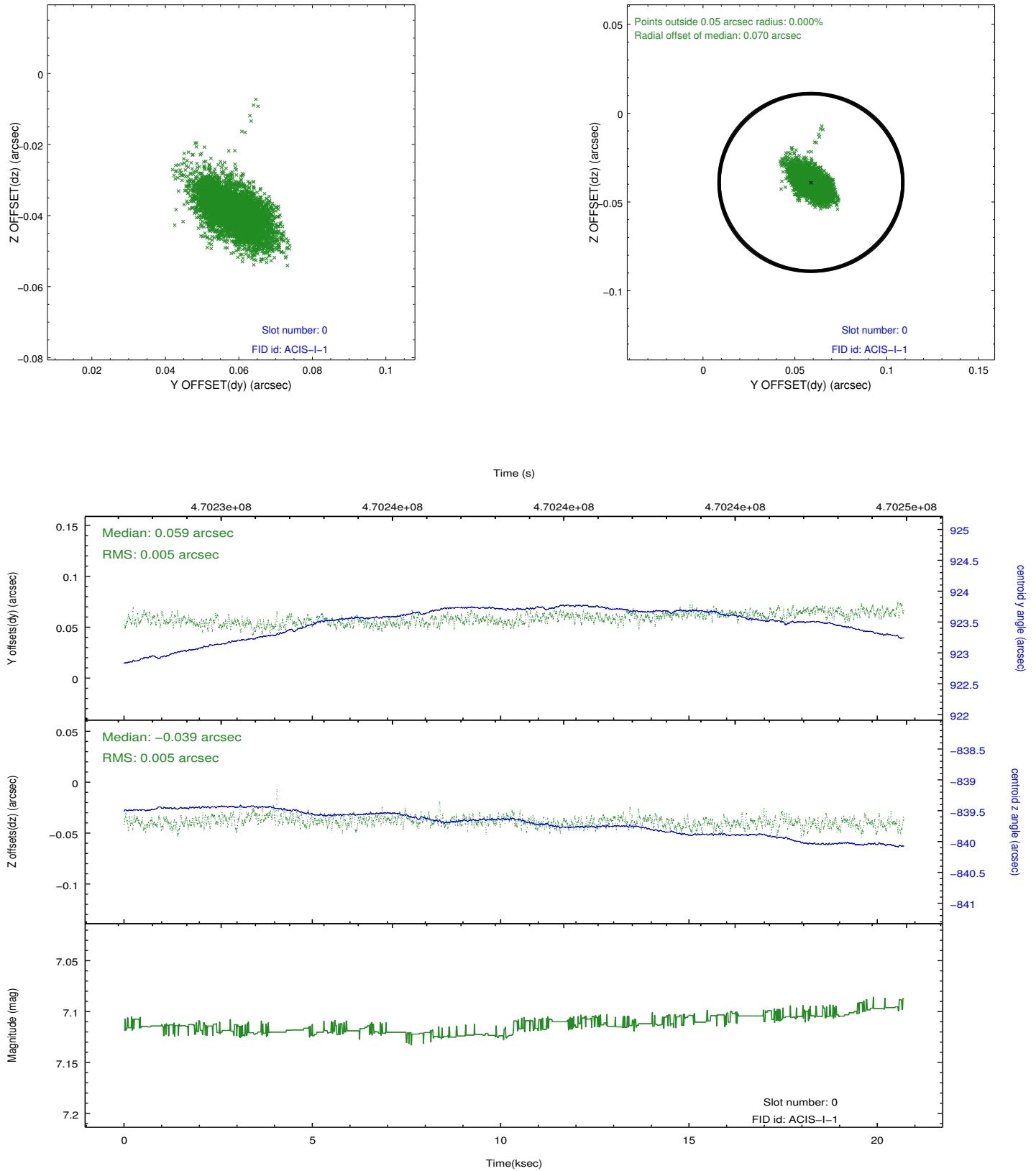


2.4.5 Slot 7

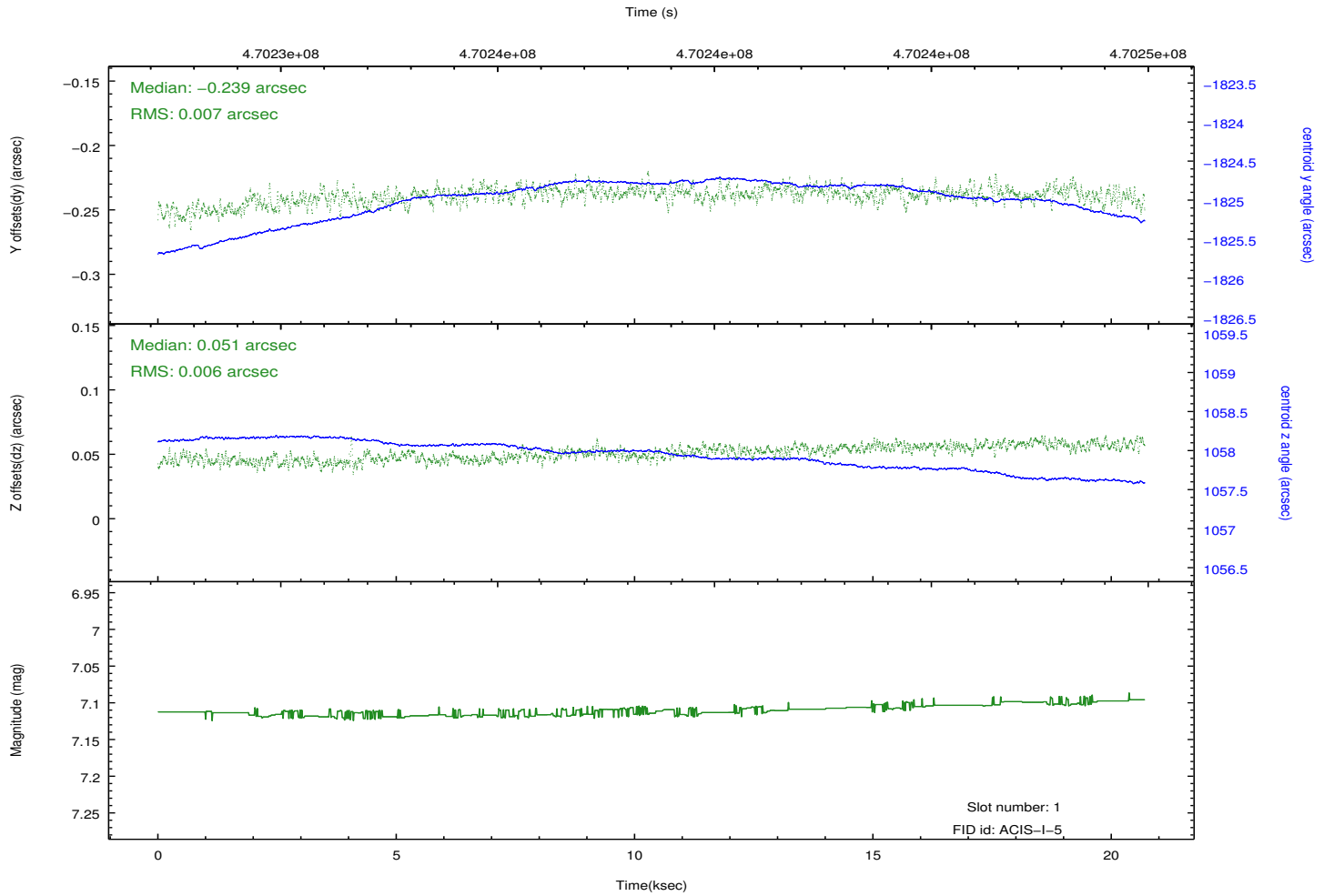
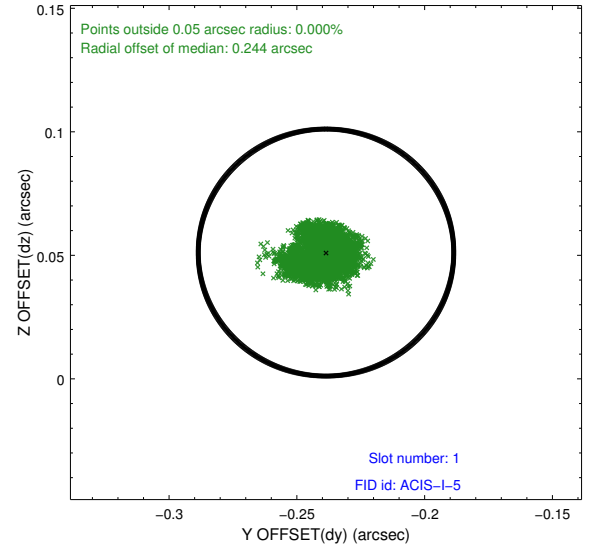
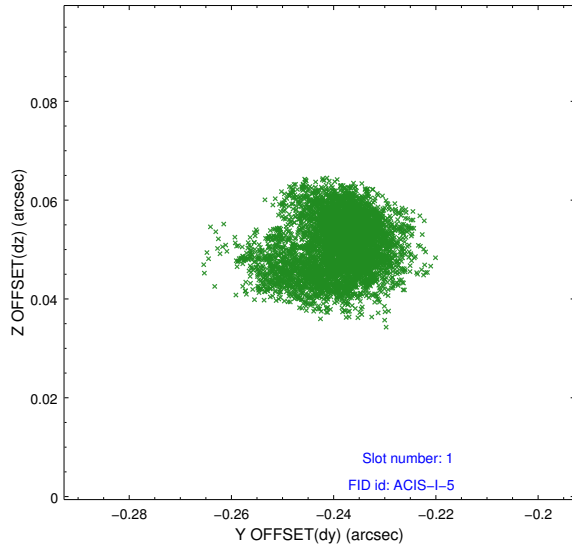


2.5 FID Slots

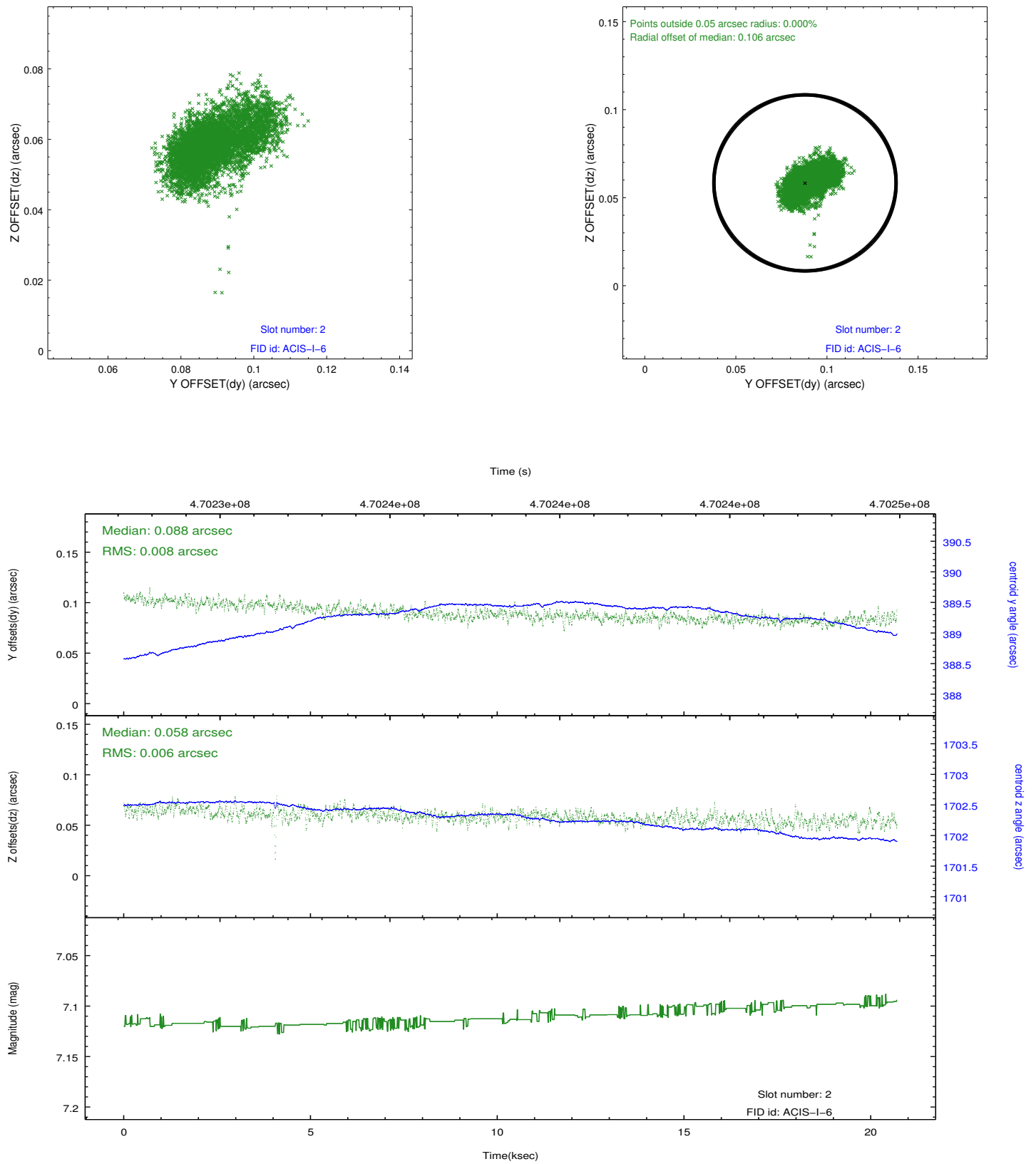
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.091100154519

A.2 Comments

Roll preference met.

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.