

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 14635 - L2 Version 2
Chandra X-Ray Center

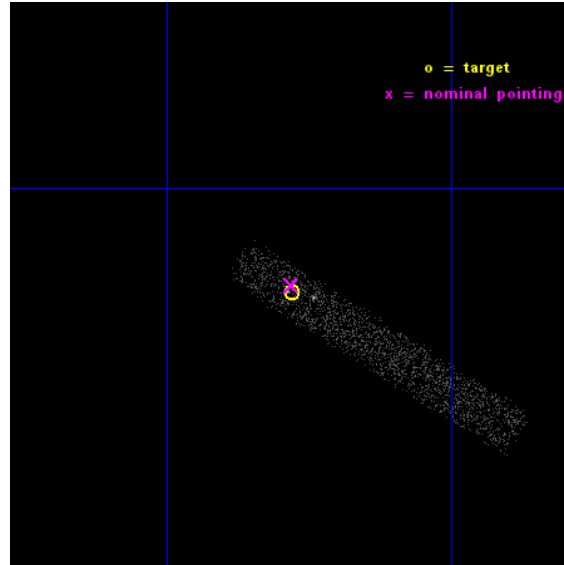
L2 Processing Date : Nov 30 2014

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1 Front

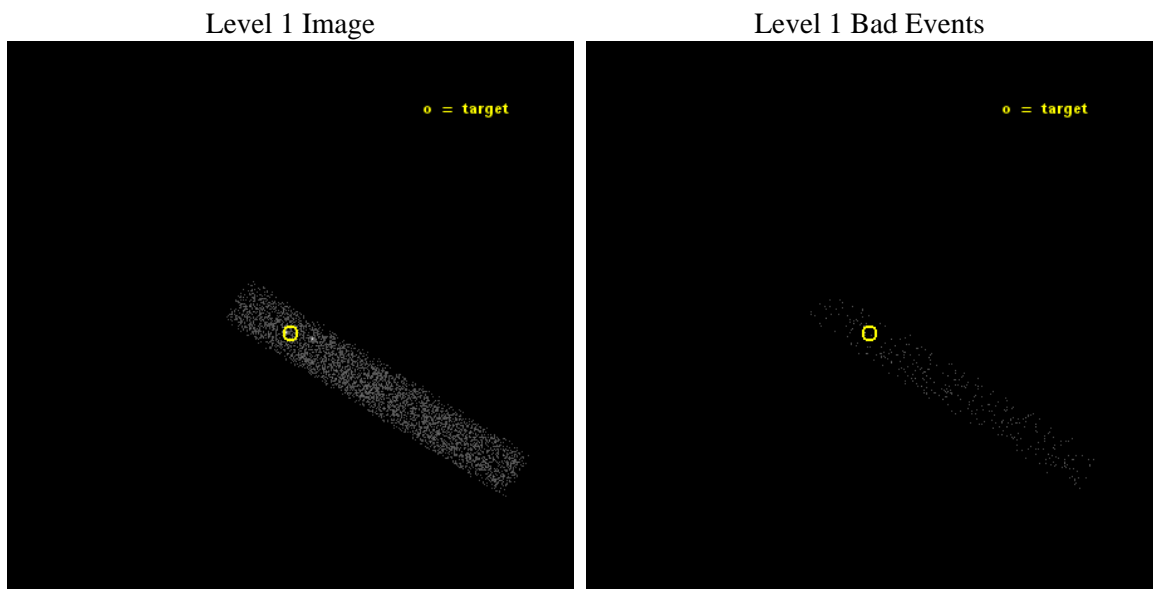
seq_num	401468	Sequence number
obs_id	14635	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	MXB 0656-072	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	104.57	Observer's specified target RA [deg]
dec_targ	-7.2105	Observer's specified target Dec [deg]
ra_nom	104.57011429882	Nominal RA [deg]
dec_nom	-7.207500931162	Nominal Dec [deg]
roll_nom	30.986713819155	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.9996978045	Sum of GTIs [s]
livetime	4598.2221093819	Livetime [s]
ontime7	5069.9996978045	Sum of GTIs [s]
l2events	3278	Number of level 2 events



2 OBI

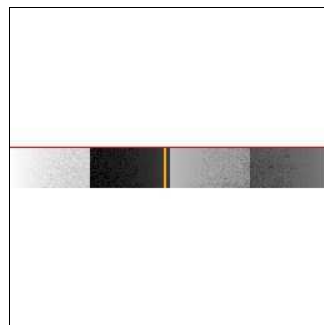
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5069.9996978045	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	5069.9996978045	Sum of GTIs [s]
date	2014-11-30T12:33:11	Date and time of file creation	l1events	5905	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

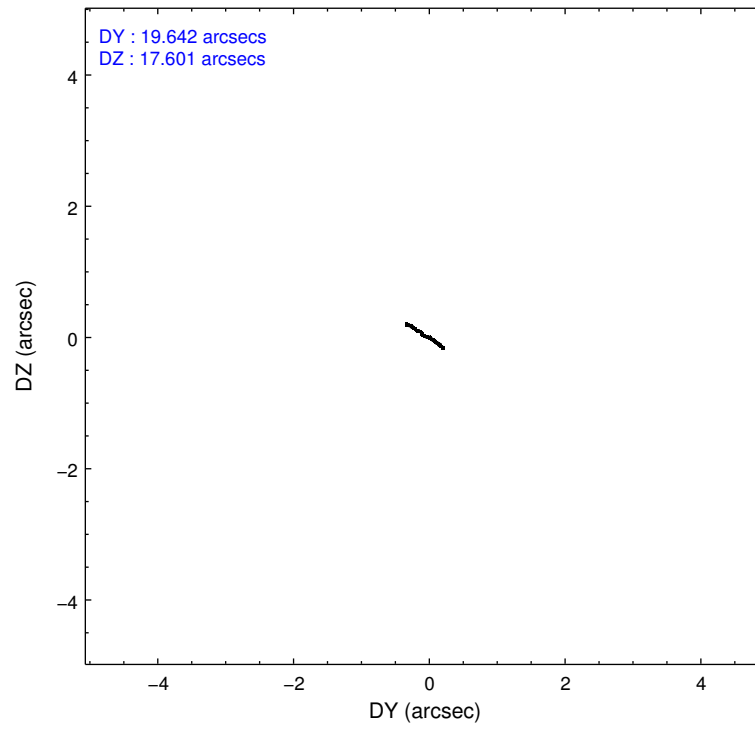
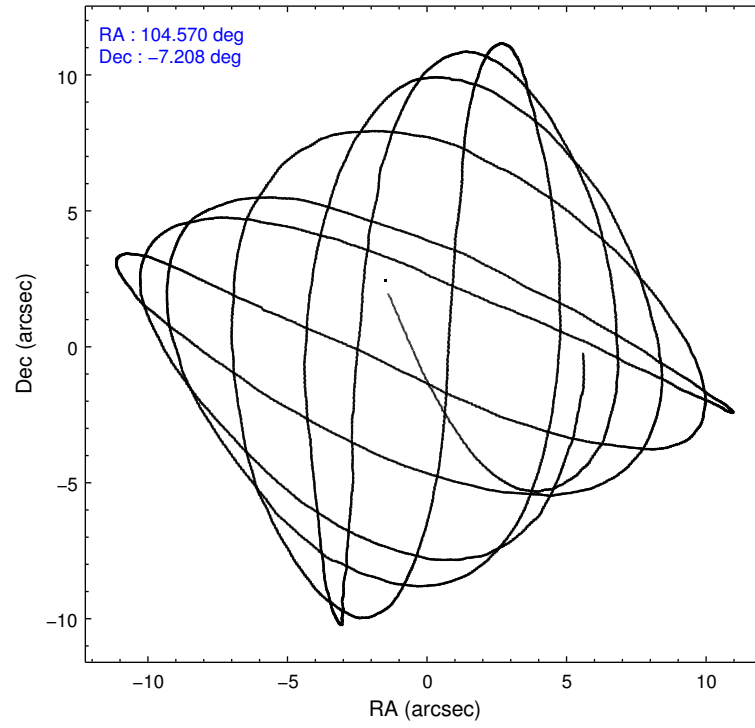
	ccd 7
level 1 events	5905
rejected events	2495
rejected %	42%

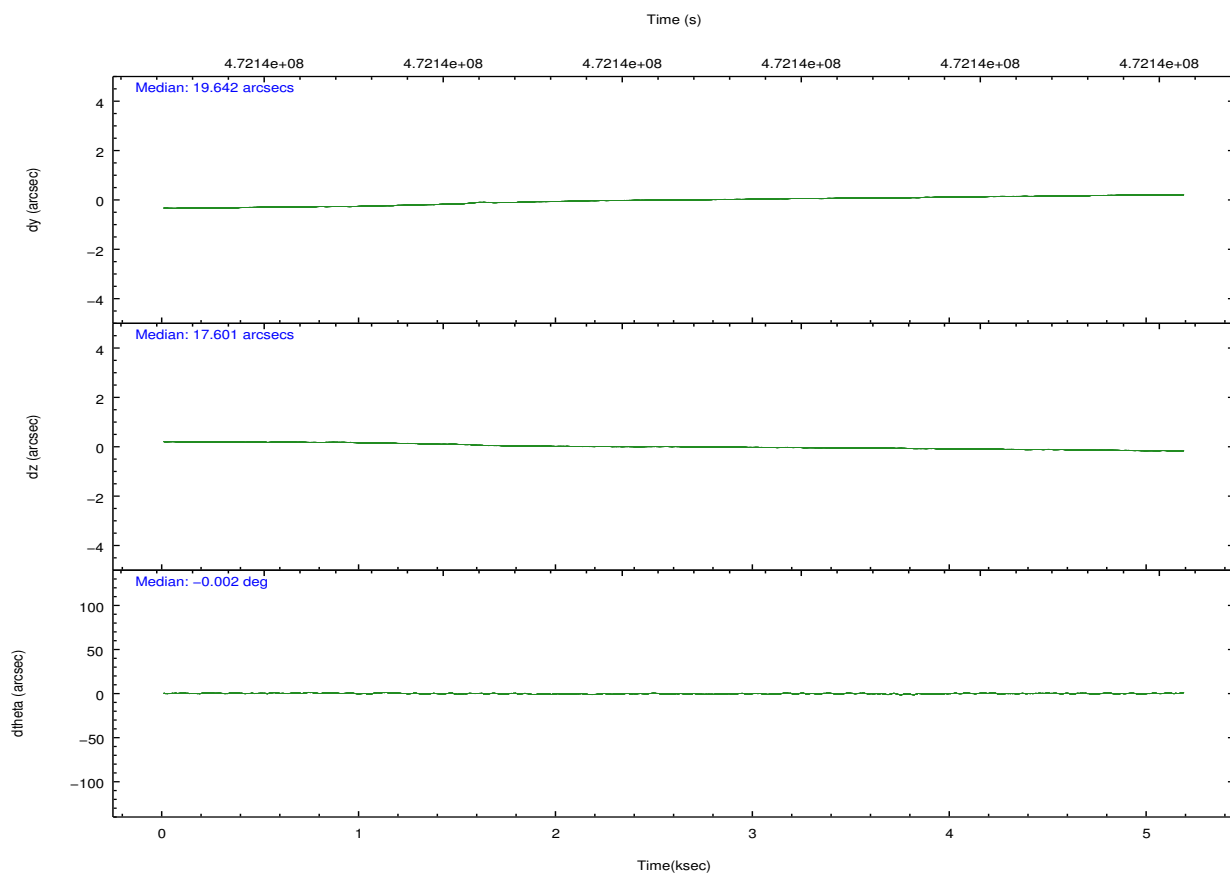
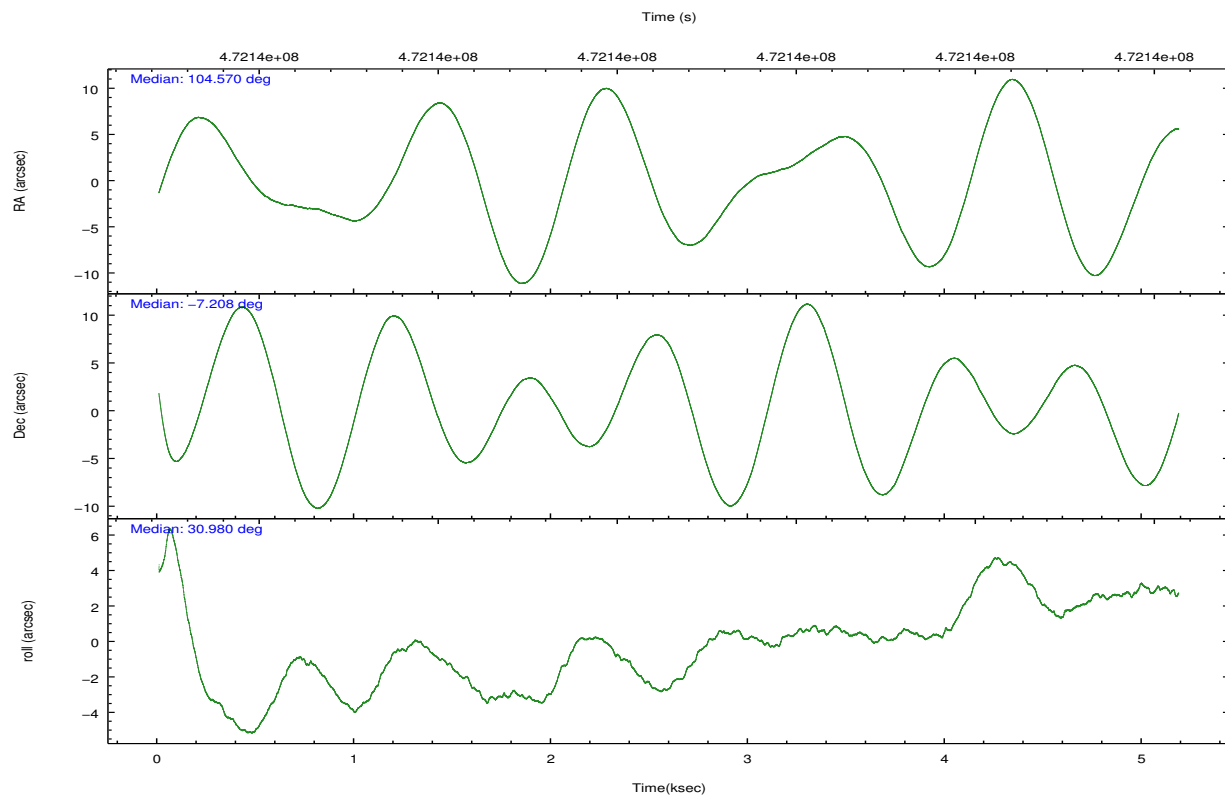
	ccd 7
grade 0 events	486
	8%
grade 1 events	5
	0%
grade 2 events	720
	12%
grade 3 events	398
	6%
grade 4 events	410
	6%
grade 5 events	535
	9%
grade 6 events	1396
	23%
grade 7 events	1955
	33%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	104.557044	104.5701142988244	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-7.231569	-7.207500931161988	Subarray start row	449	449
[deg] Pointing Roll	30.828438	30.98671381915509	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	472137887.184000	472136804.48652			
Observation start date	2012-12-17T13:23:40	2012-12-17T13:06:44			
[s] Observation end time (MET)	472142887.184000	472143716.06189			
Observation end date	2012-12-17T14:47:00	2012-12-17T15:01:56			
Read mode	TIMED	TIMED			

2.3 Aspect



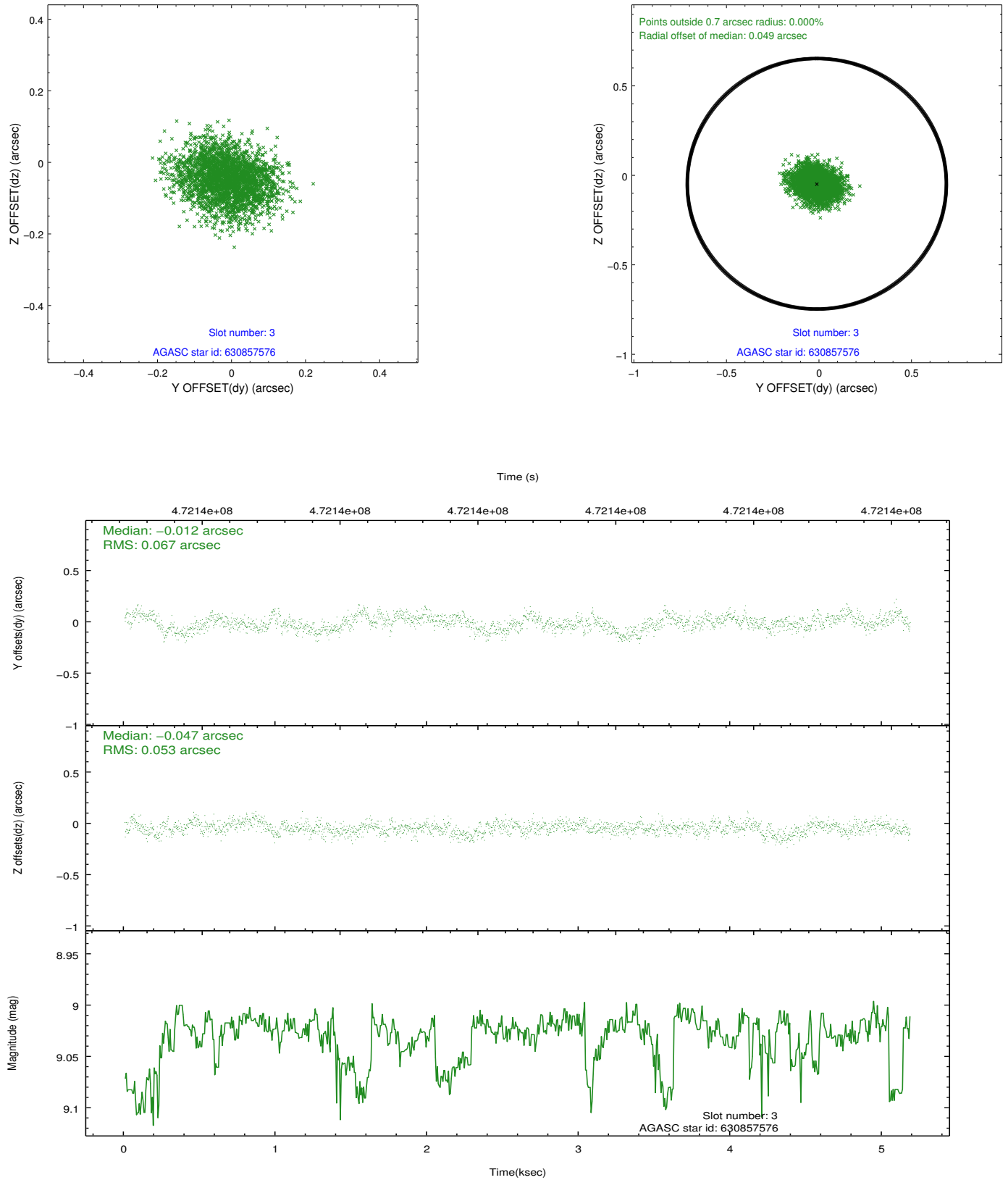


Slot Statistics

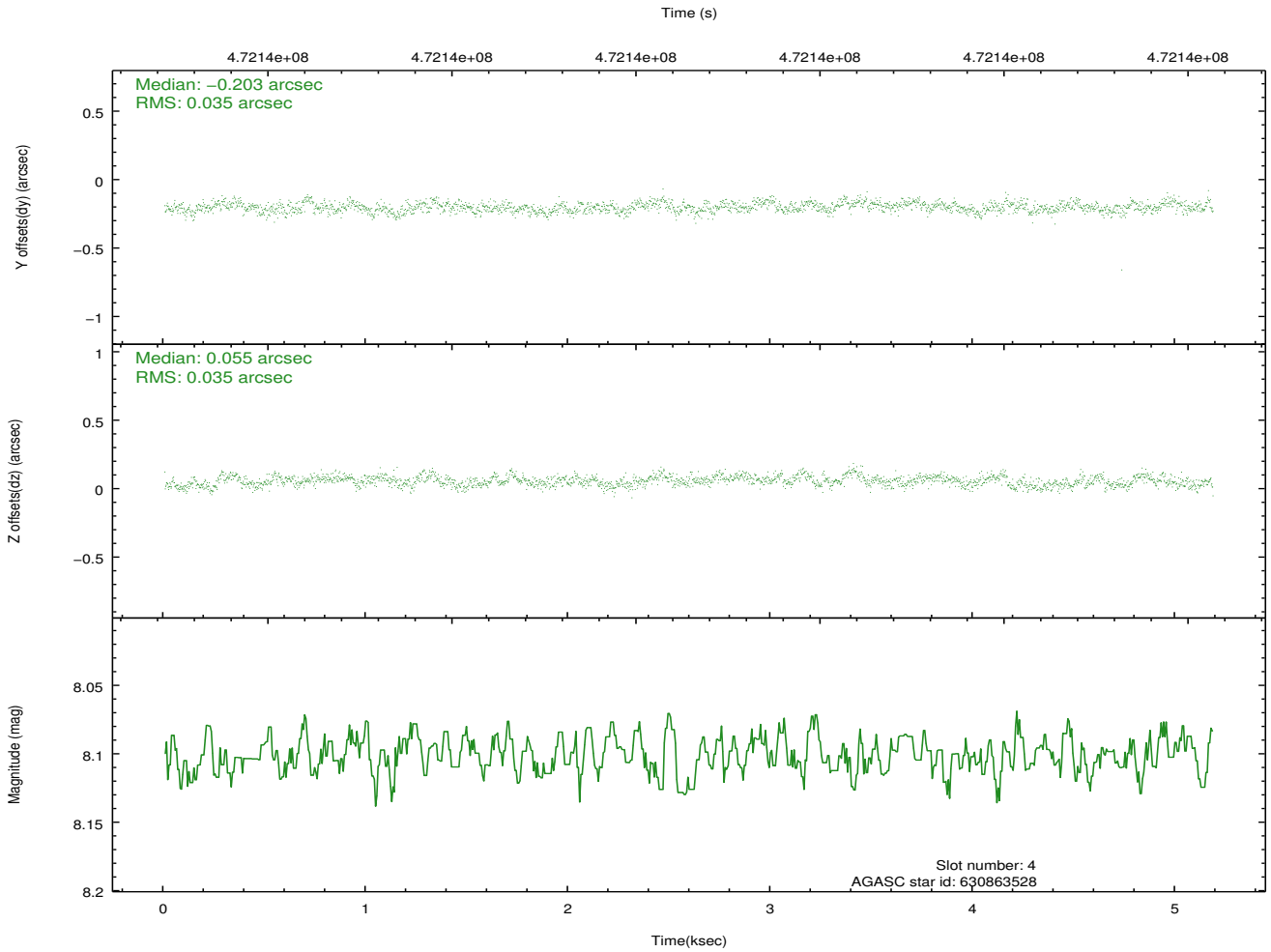
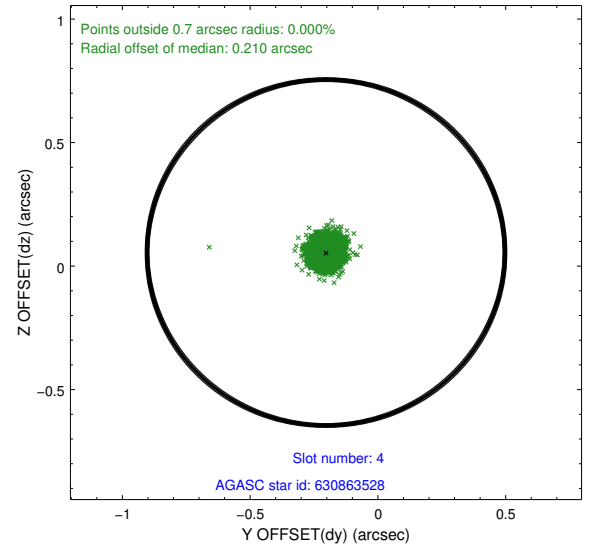
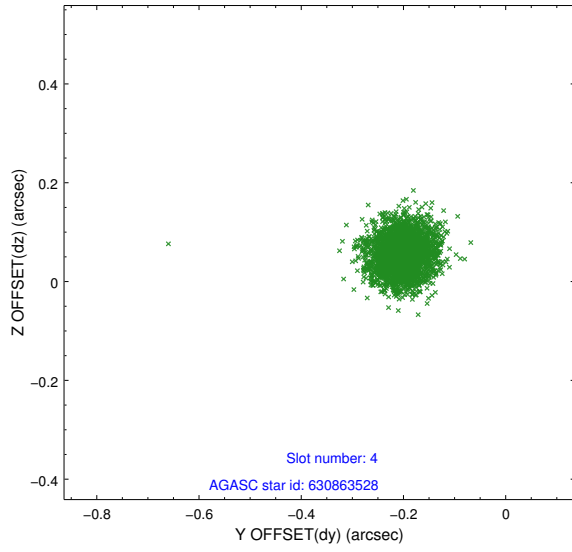
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	1264	-0.099	-0.032	0.008	0.012	0.000000	0.000000	-772.84	-1739.02
1	FID		ACIS-S-4	6.97	1264	0.248	0.056	0.005	0.010	0.000000	0.000000	2140.29	168.26
2	FID		ACIS-S-5	7.00	1264	-0.180	-0.016	0.008	0.013	0.000000	0.000000	-1824.22	163.29
3	GUIDE	used	630857576	9.03	2517	-0.012	-0.047	0.092	0.146	103.815765	-7.076514	-1989.26	1834.88
4	GUIDE	used	630863528	8.10	2527	-0.203	0.055	0.052	0.082	104.777901	-7.211871	712.78	-342.20
5	GUIDE	used	630864184	9.24	2513	0.028	-0.082	0.143	0.230	104.346980	-7.281746	-736.38	229.30
6	GUIDE	used	705167456	7.98	2528	0.066	0.169	0.086	0.137	104.530891	-7.843945	-1209.77	-1844.72
7	GUIDE	used	630868280	9.38	2473	0.124	-0.088	0.119	0.190	104.040463	-7.117245	-1374.77	1297.81

2.4 Star Slots

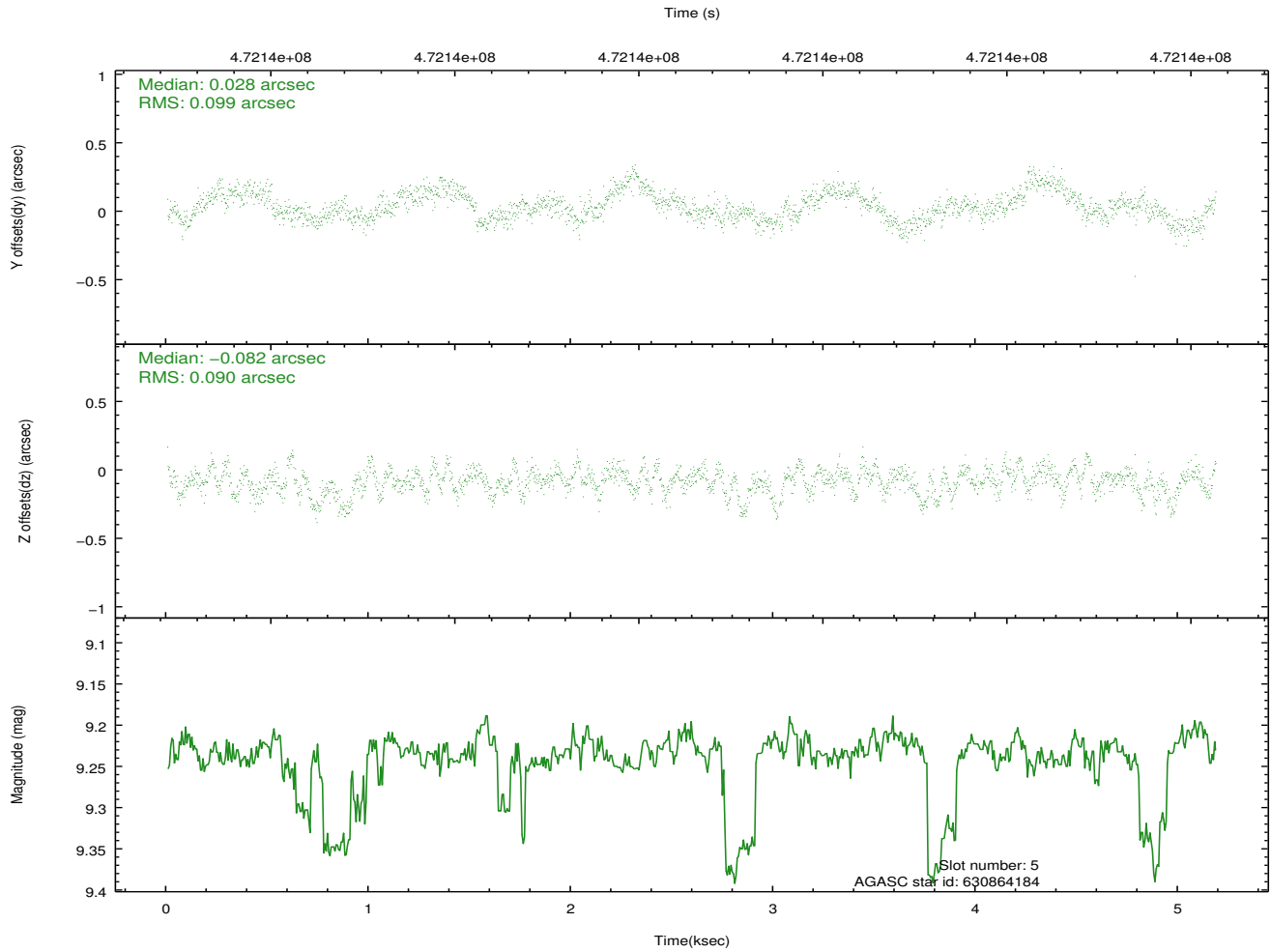
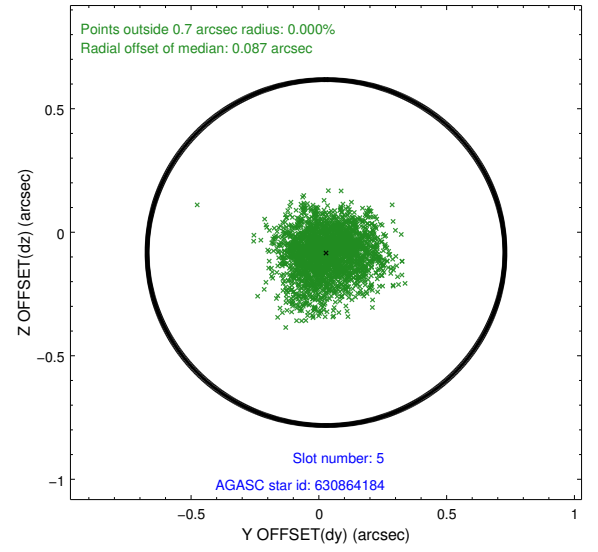
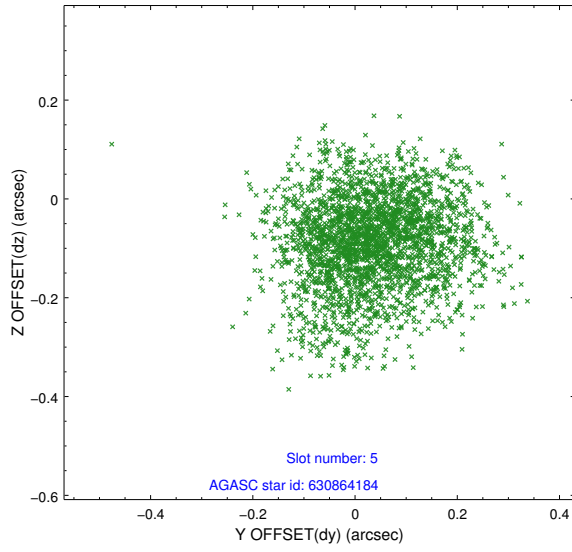
2.4.1 Slot 3



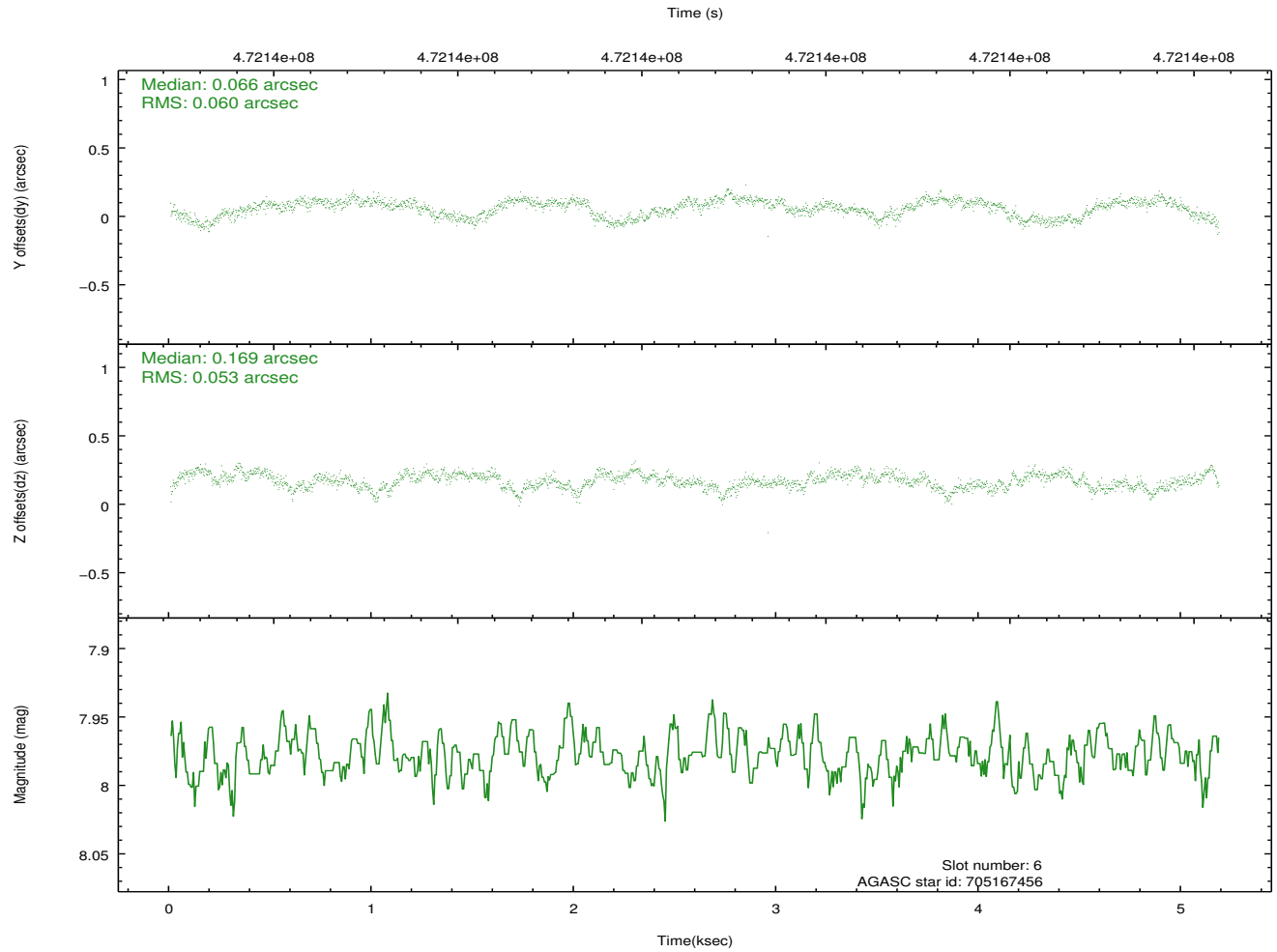
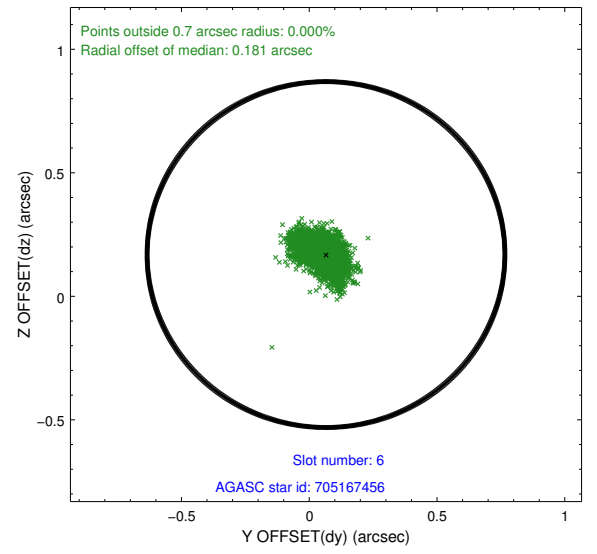
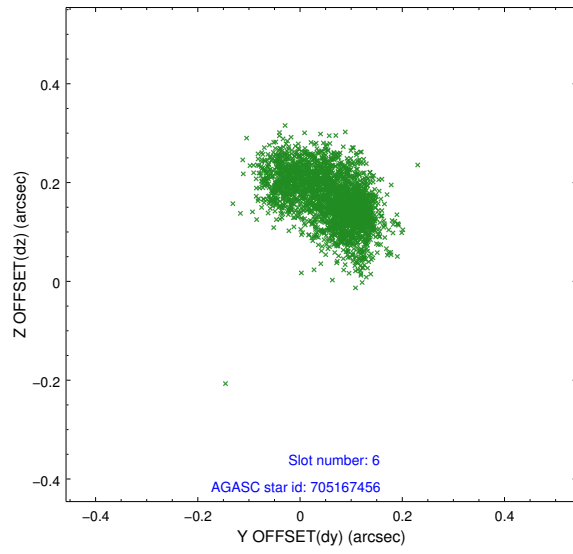
2.4.2 Slot 4



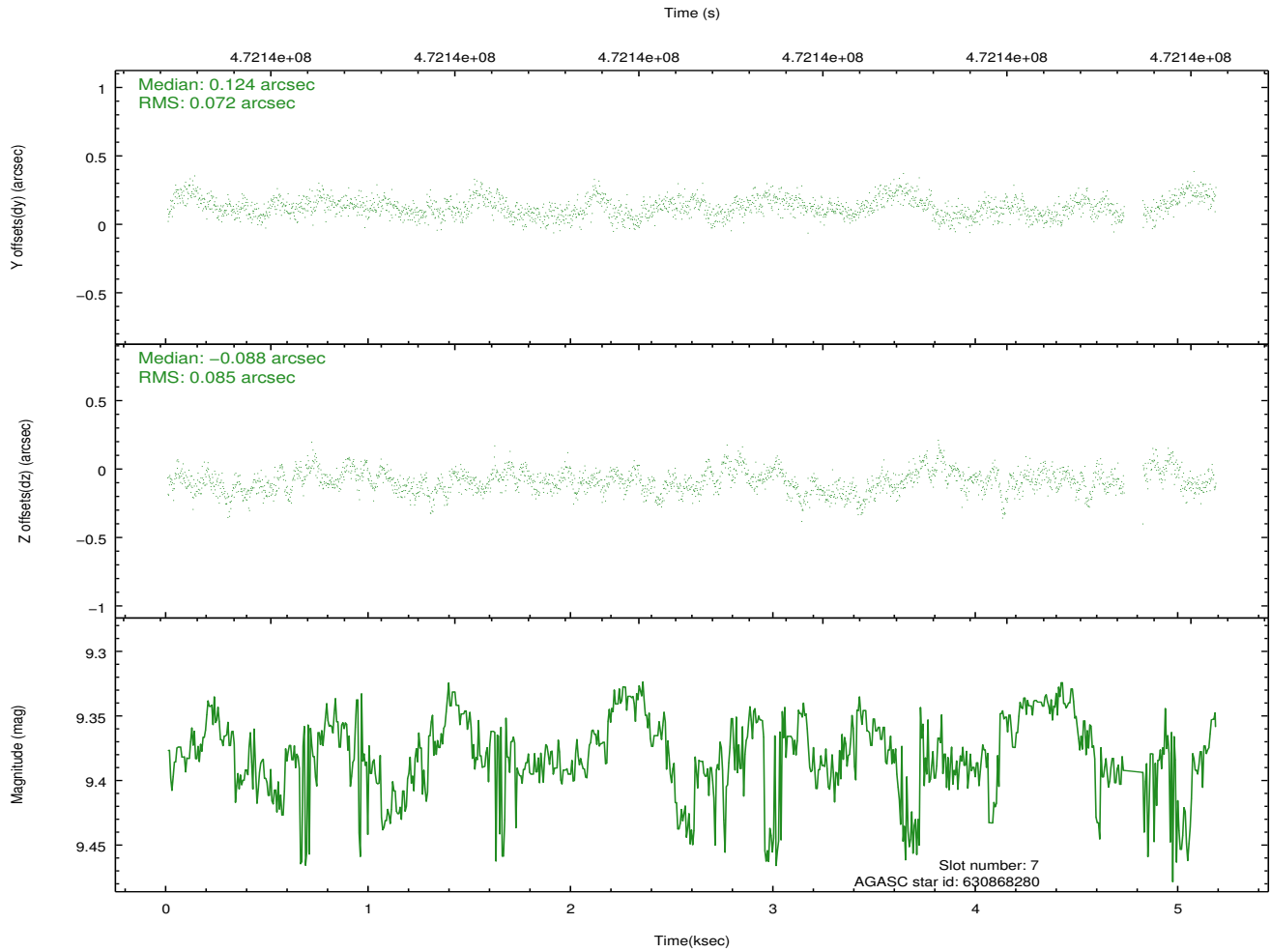
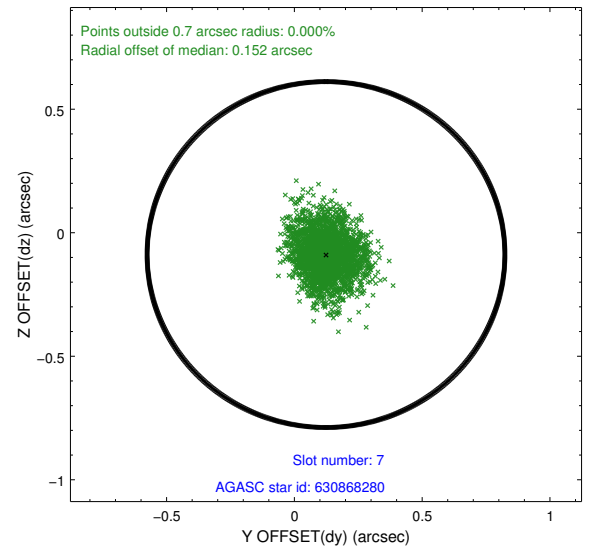
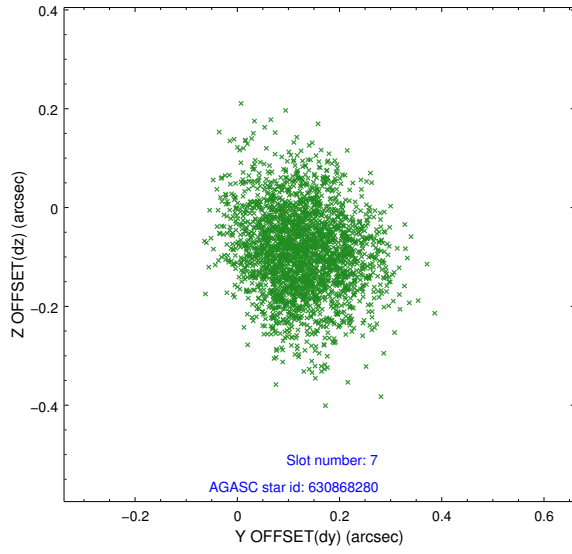
2.4.3 Slot 5



2.4.4 Slot 6

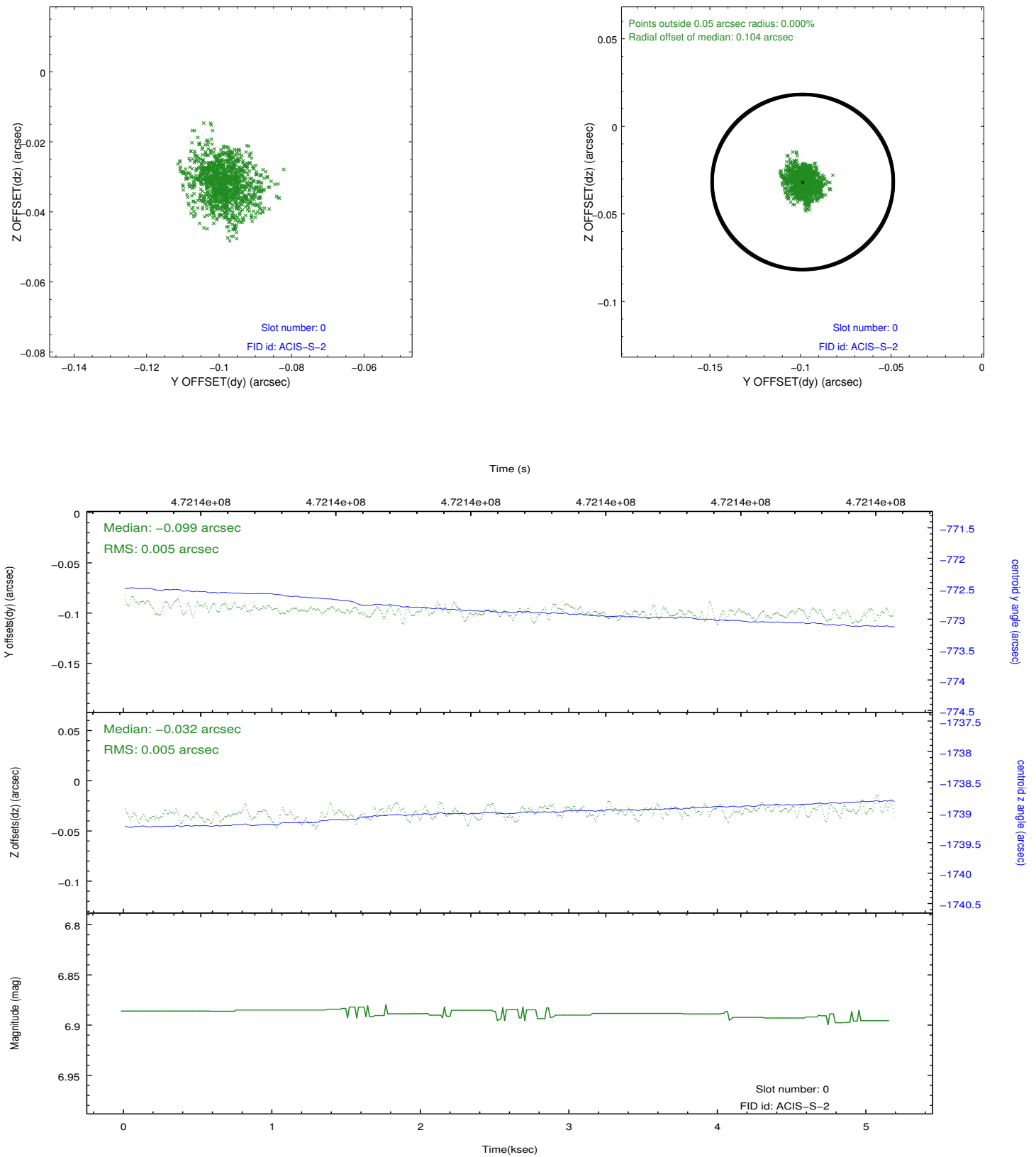


2.4.5 Slot 7

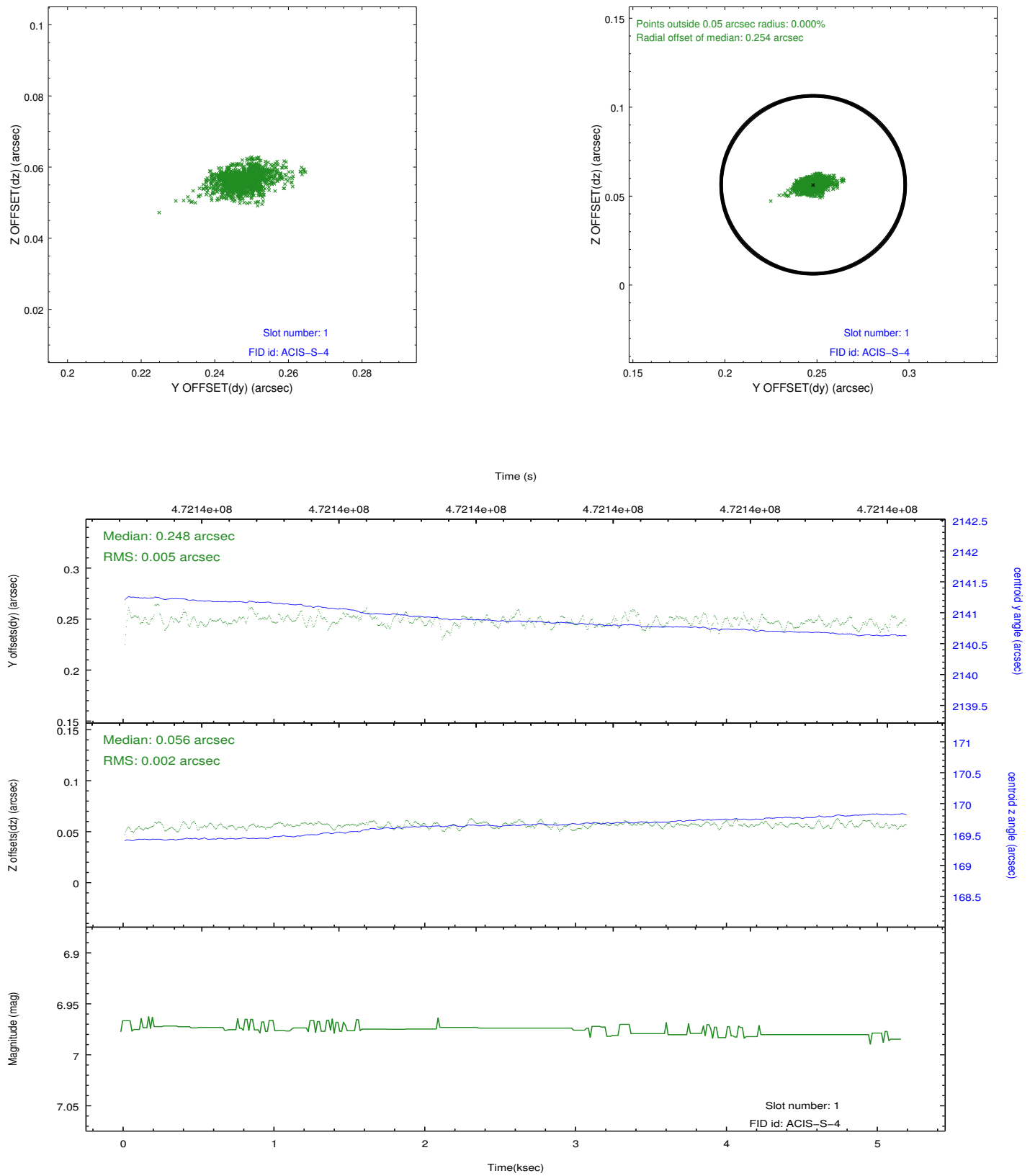


2.5 FID Slots

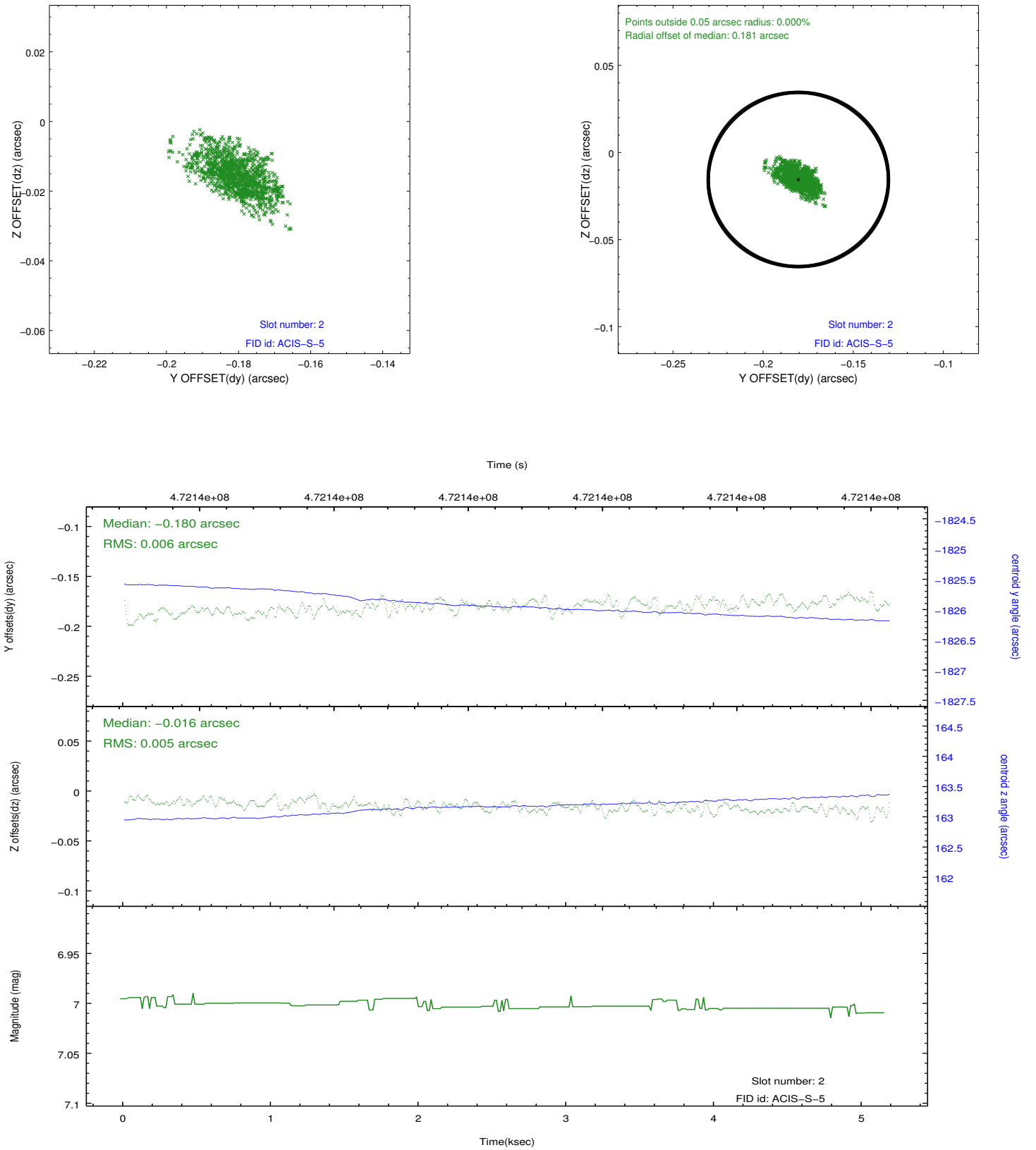
2.5.1 Slot 0



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)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0699996978045

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.