

V&V Reference Report

L2 ASCDS Version : 10

Observation 15043 - L2 Version 2
Chandra X-Ray Center

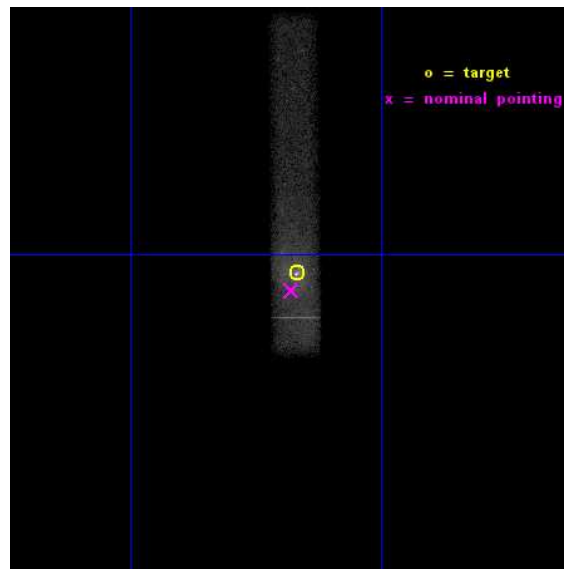
L2 Processing Date : Dec 6 2014

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1 Front

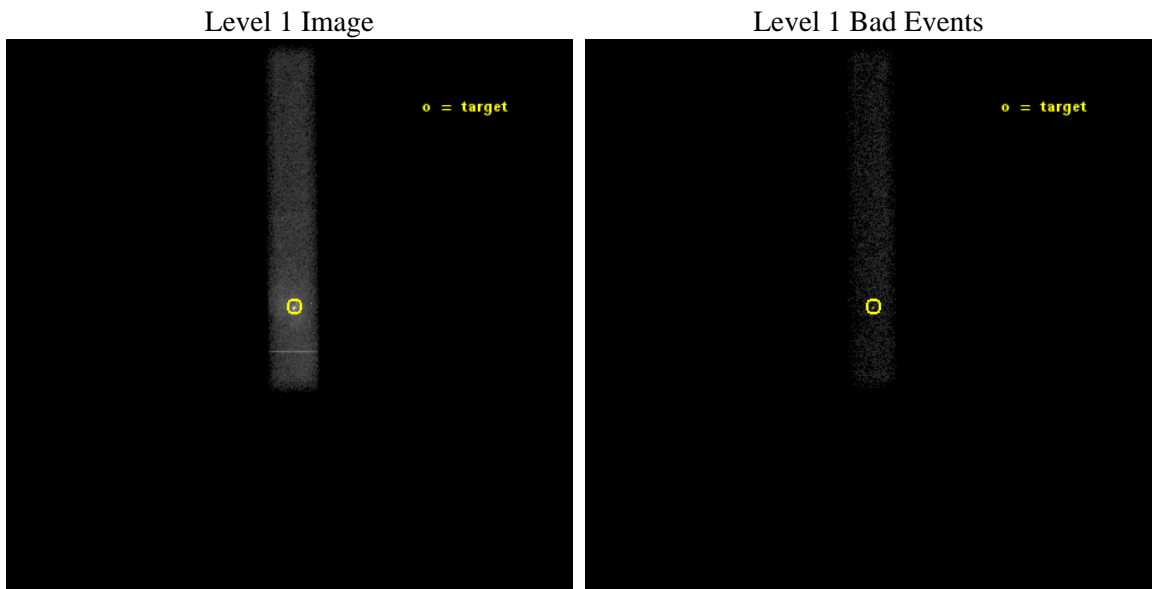
seq_num	702850	Sequence number
obs_id	15043	Observation id
title	Joint Chandra/XMM/EVLA Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	Proposal title
observer	Dr. Daryl Haggard	Principal investigator
object	Sgr A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.00775	Observer's specified target Dec [deg]
ra_nom	266.41945996383	Nominal RA [deg]
dec_nom	-29.01523454343	Nominal Dec [deg]
roll_nom	269.31727347423	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50069.197015643	Sum of GTIs [s]
livetime	45410.118824273	Livetime [s]
ontime7	50069.197015643	Sum of GTIs [s]
l2events	73126	Number of level 2 events



2 OBI

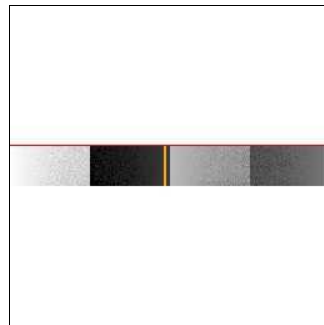
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.040000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	50069.197015643	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	50069.197015643	Sum of GTIs [s]
date	2014-12-06T15:40:34	Date and time of file creation	l1events	99216	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

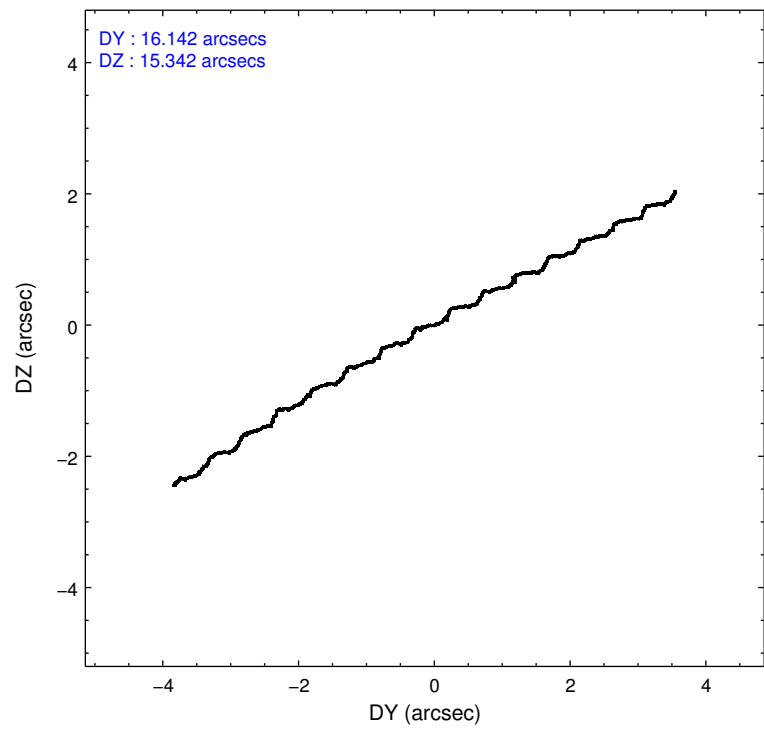
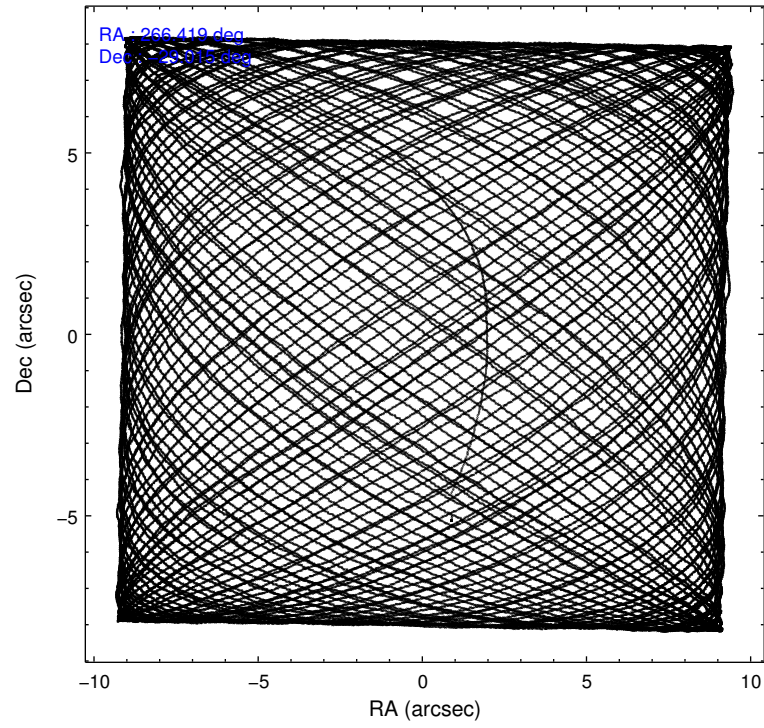
	ccd 7
level 1 events	99216
rejected events	24053
rejected %	24%

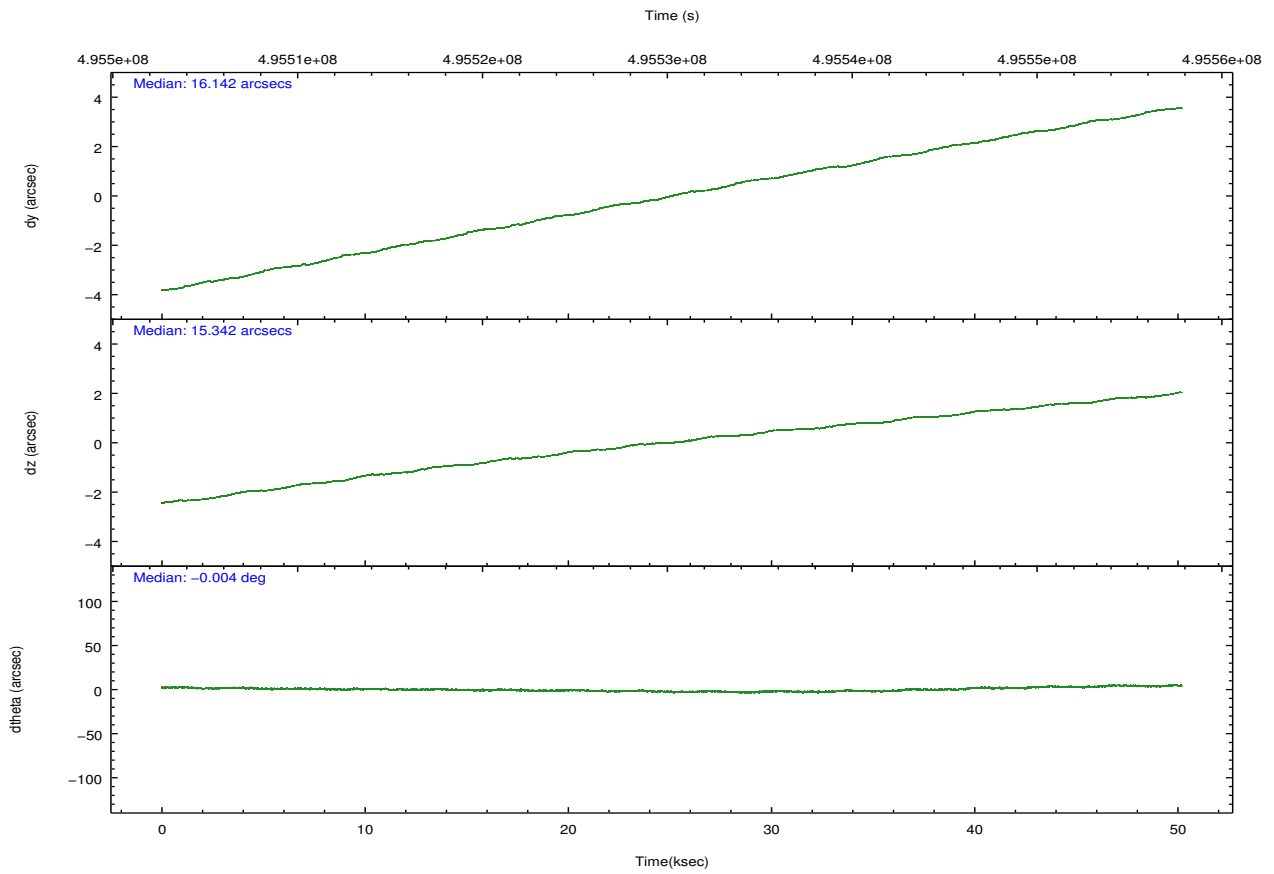
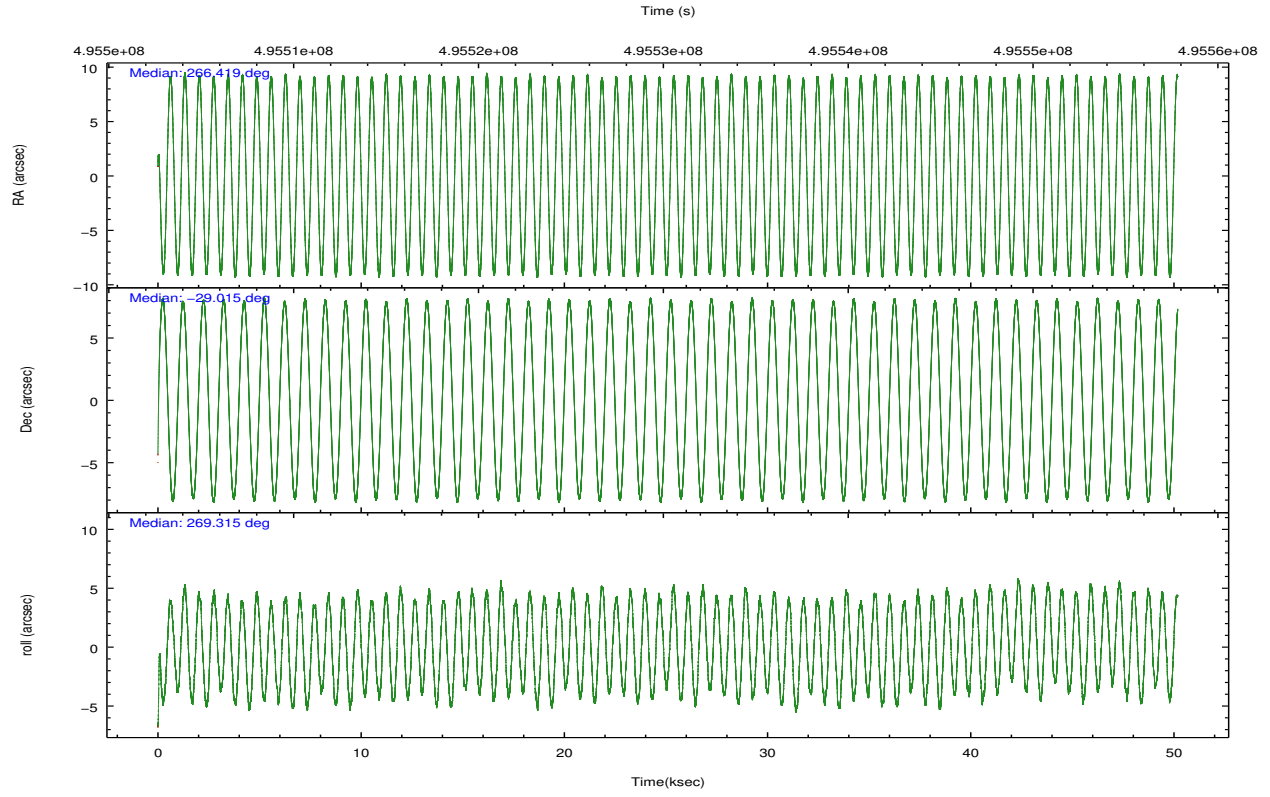
	ccd 7
grade 0 events	12782
	12%
grade 1 events	146
	0%
grade 2 events	17011
	17%
grade 3 events	8502
	8%
grade 4 events	8406
	8%
grade 5 events	5199
	5%
grade 6 events	28466
	28%
grade 7 events	18704
	18%

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	266.403794	266.4194599638255	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.991586	-29.01523454342965	Subarray start row	449	449
[deg] Pointing Roll	269.153052	269.3172734742313	Subarray row count	128	128
[s] Window start time (MET)	494640067.184000	494640067.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	495763207.184000	495763207.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	495505335.184000	495504292.96572			
Observation start date	2013-09-14T00:21:08	2013-09-14T00:04:52			
[s] Observation end time (MET)	495555335.184000	495555560.90602			
Observation end date	2013-09-14T14:14:28	2013-09-14T14:19:20			
Read mode	TIMED	TIMED			

2.3 Aspect





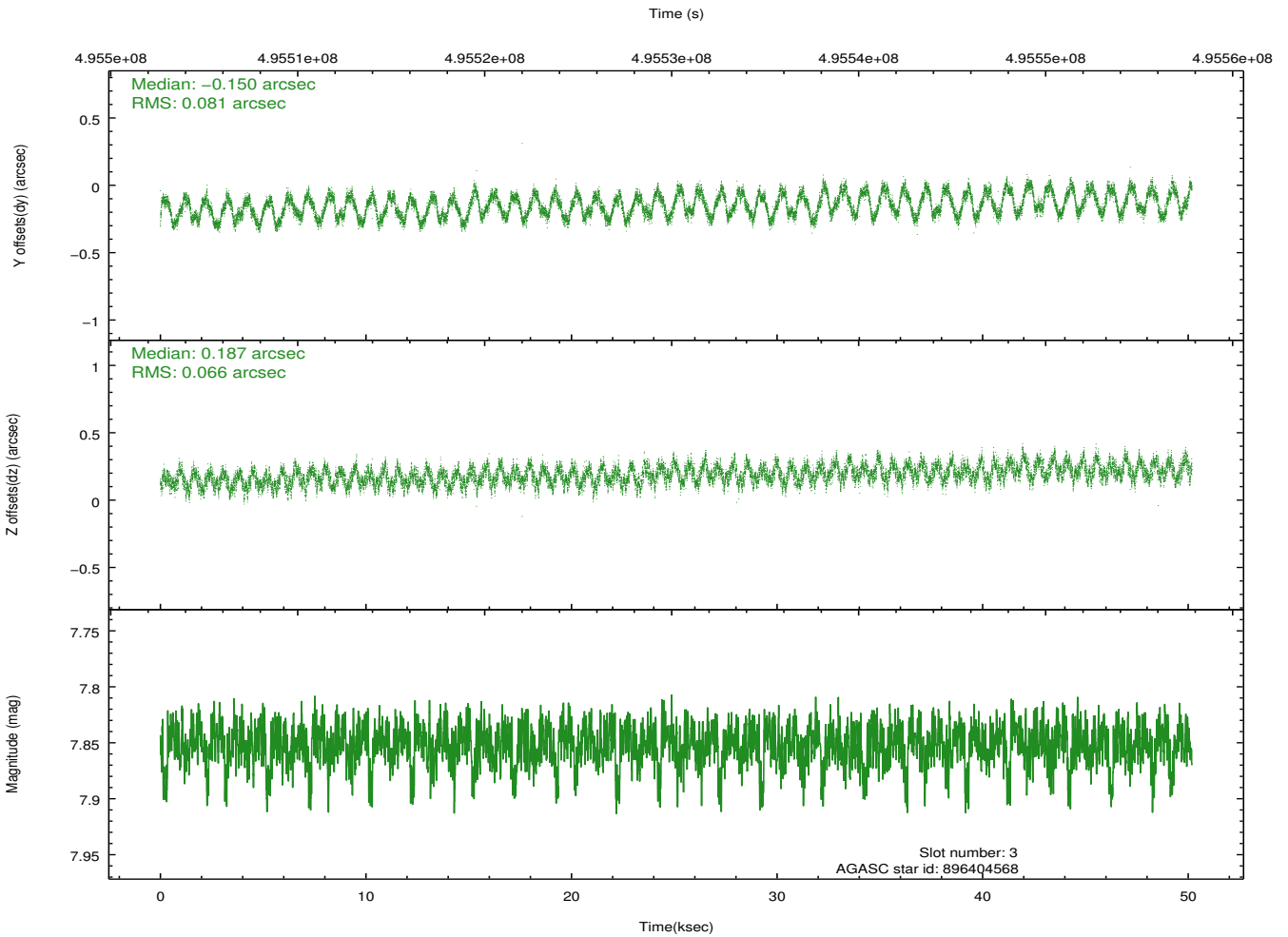
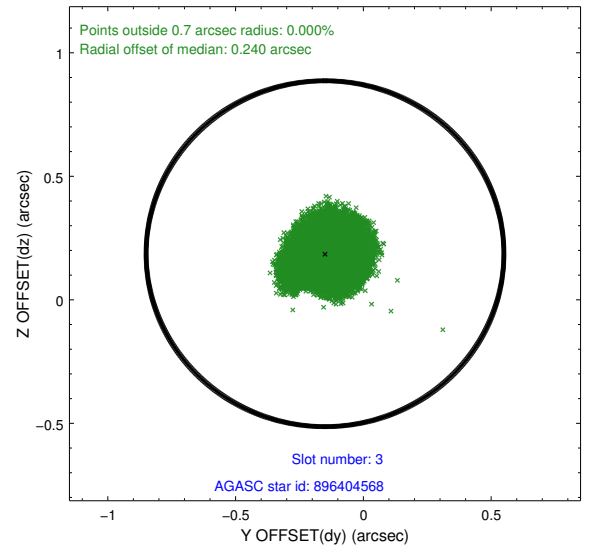
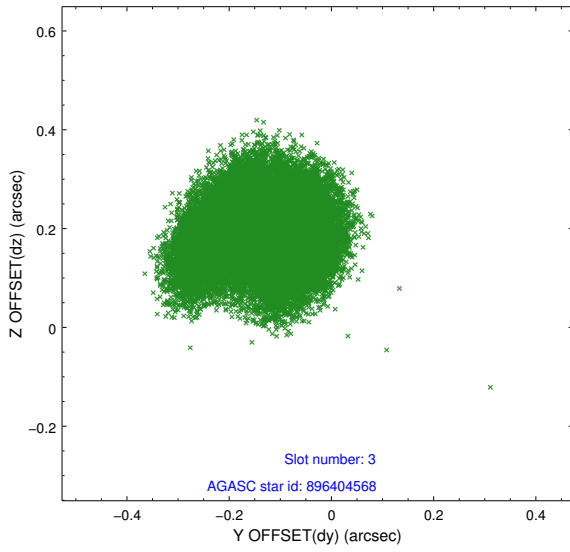
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	12241	-0.099	-0.022	0.029	0.078	0.000000	0.000000	-769.18	-1736.64
1	FID		ACIS-S-4	7.05	12241	0.227	0.052	0.036	0.089	0.000000	0.000000	2144.42	171.93
2	FID		ACIS-S-5	7.08	12240	-0.169	-0.023	0.037	0.055	0.000000	0.000000	-1822.13	165.52
3	GUIDE	used	896404568	7.85	24477	-0.150	0.187	0.115	0.167	265.687293	-28.431080	-1976.95	-2297.61
4	GUIDE	used	896541360	7.71	24477	-0.037	-0.118	0.078	0.122	266.684478	-29.453744	1651.89	904.44
5	GUIDE	used	896403224	8.26	24478	0.298	0.002	0.129	0.207	265.612825	-29.438915	1656.47	-2455.28
6	GUIDE	used	896537176	8.03	24478	-0.009	-0.063	0.062	0.099	266.498272	-28.678259	-1131.69	281.65
7	GUIDE	used	896537776	7.54	24477	-0.101	-0.000	0.064	0.102	266.655684	-29.665673	2415.88	824.10

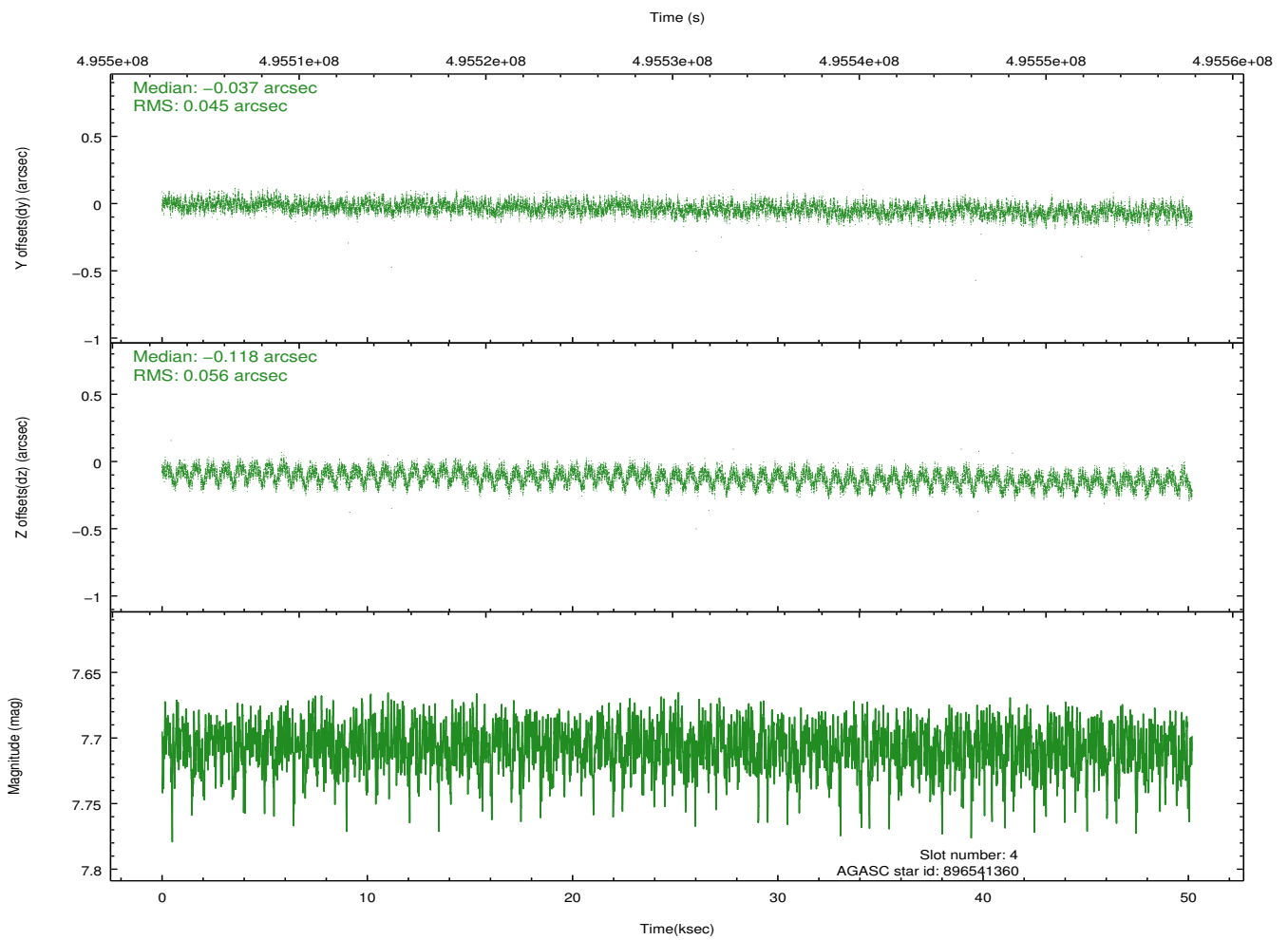
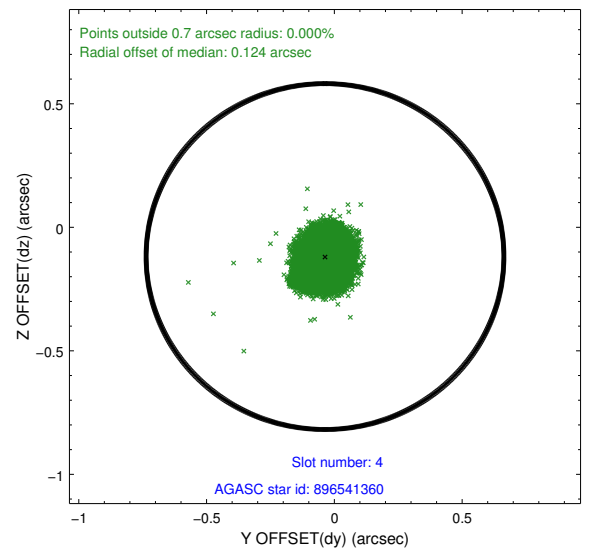
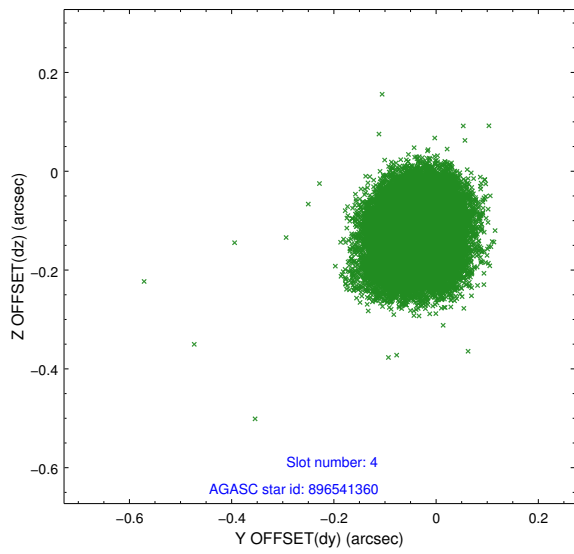
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2.4 Star Slots

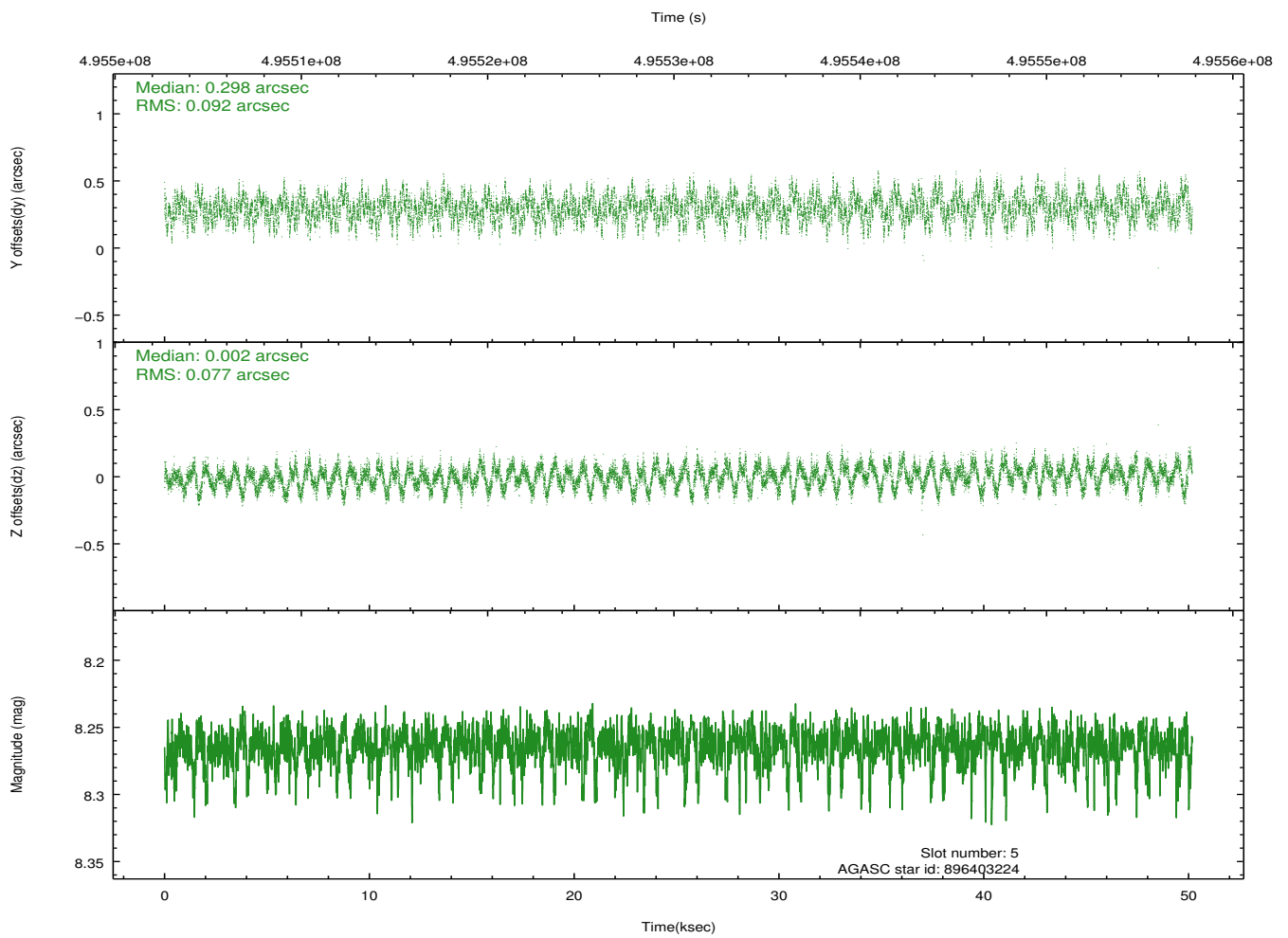
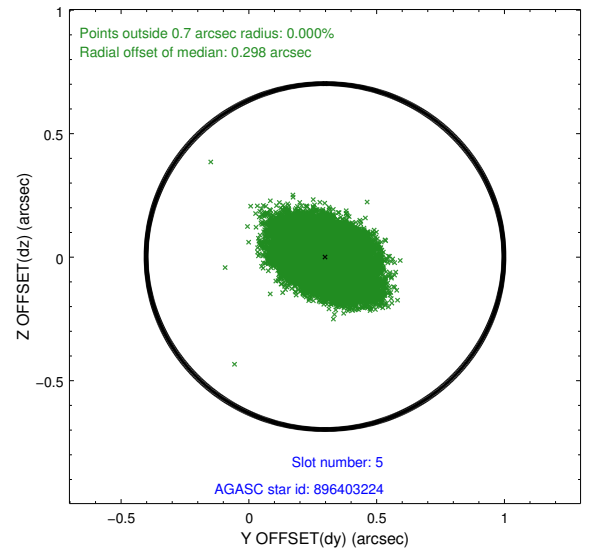
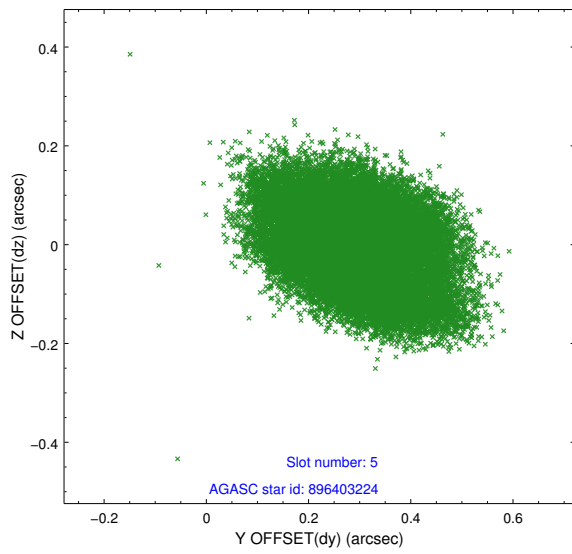
2.4.1 Slot 3



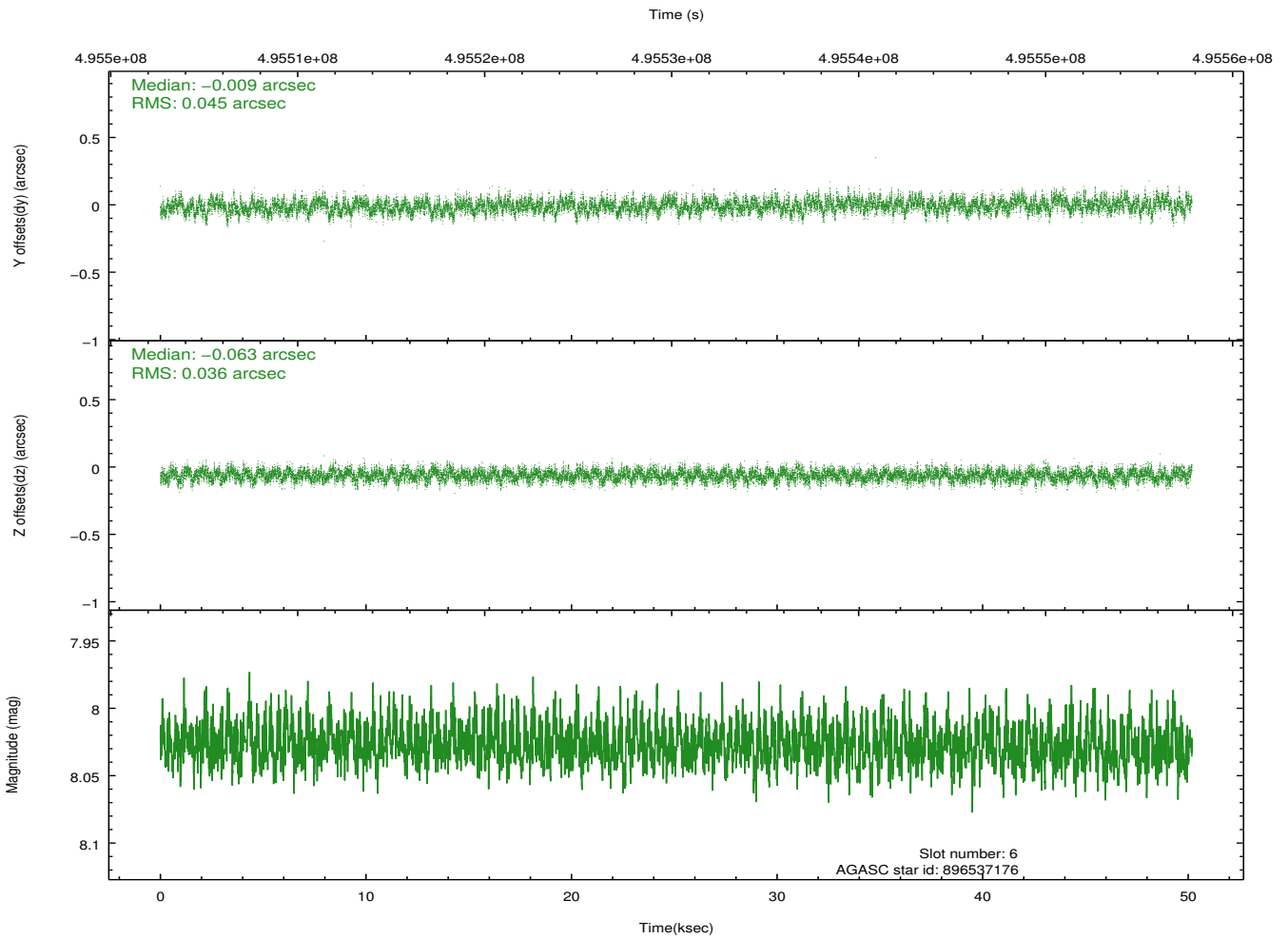
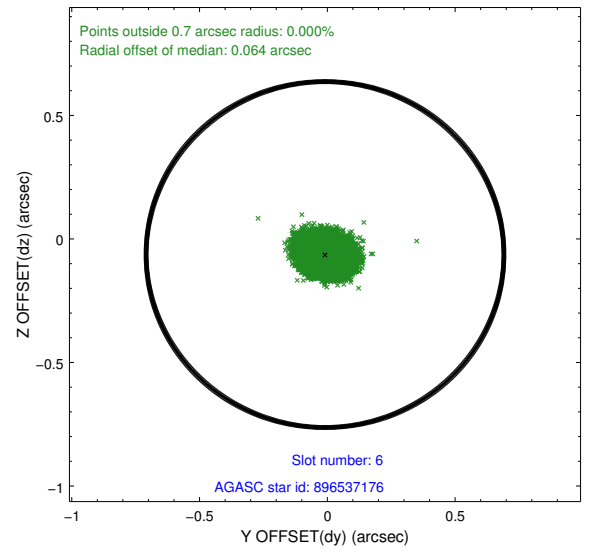
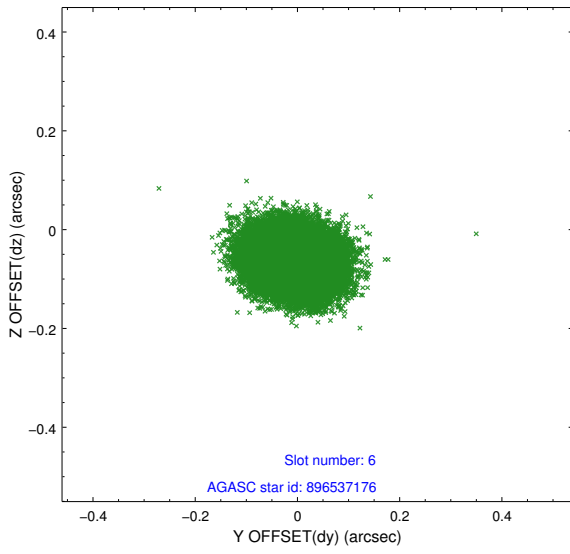
2.4.2 Slot 4



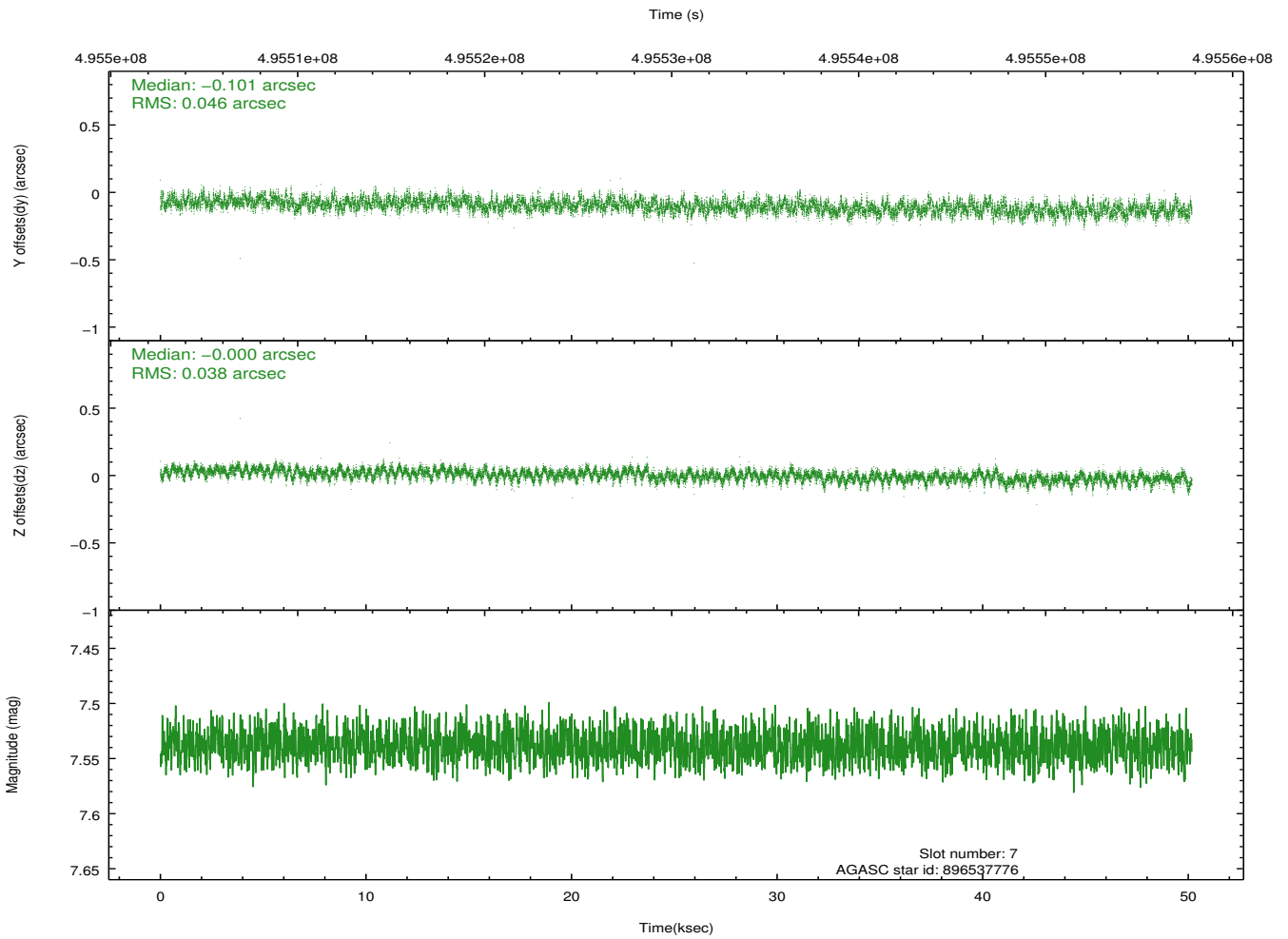
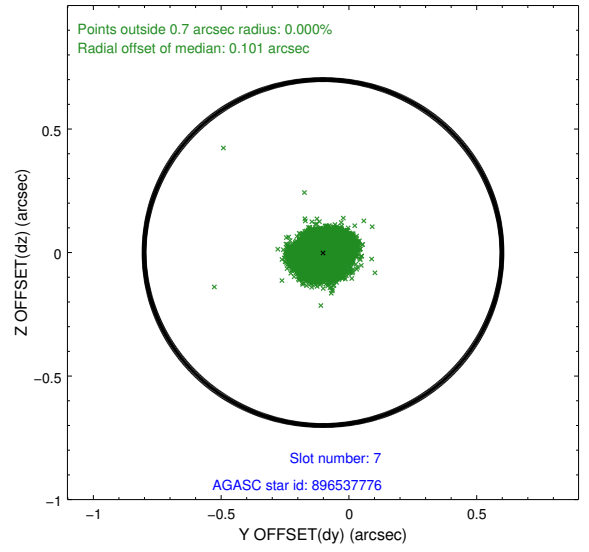
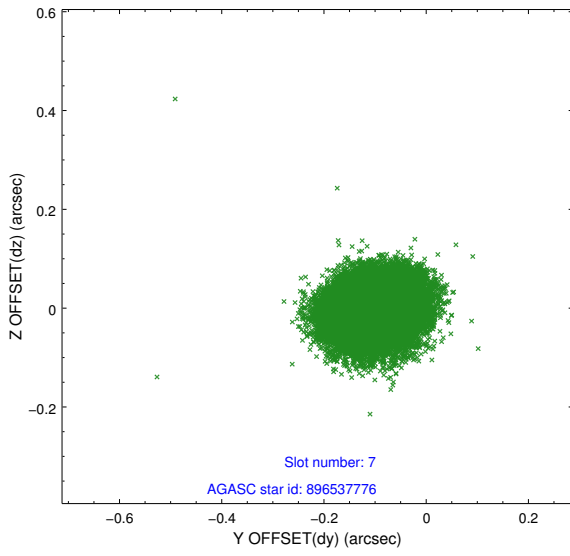
2.4.3 Slot 5



2.4.4 Slot 6

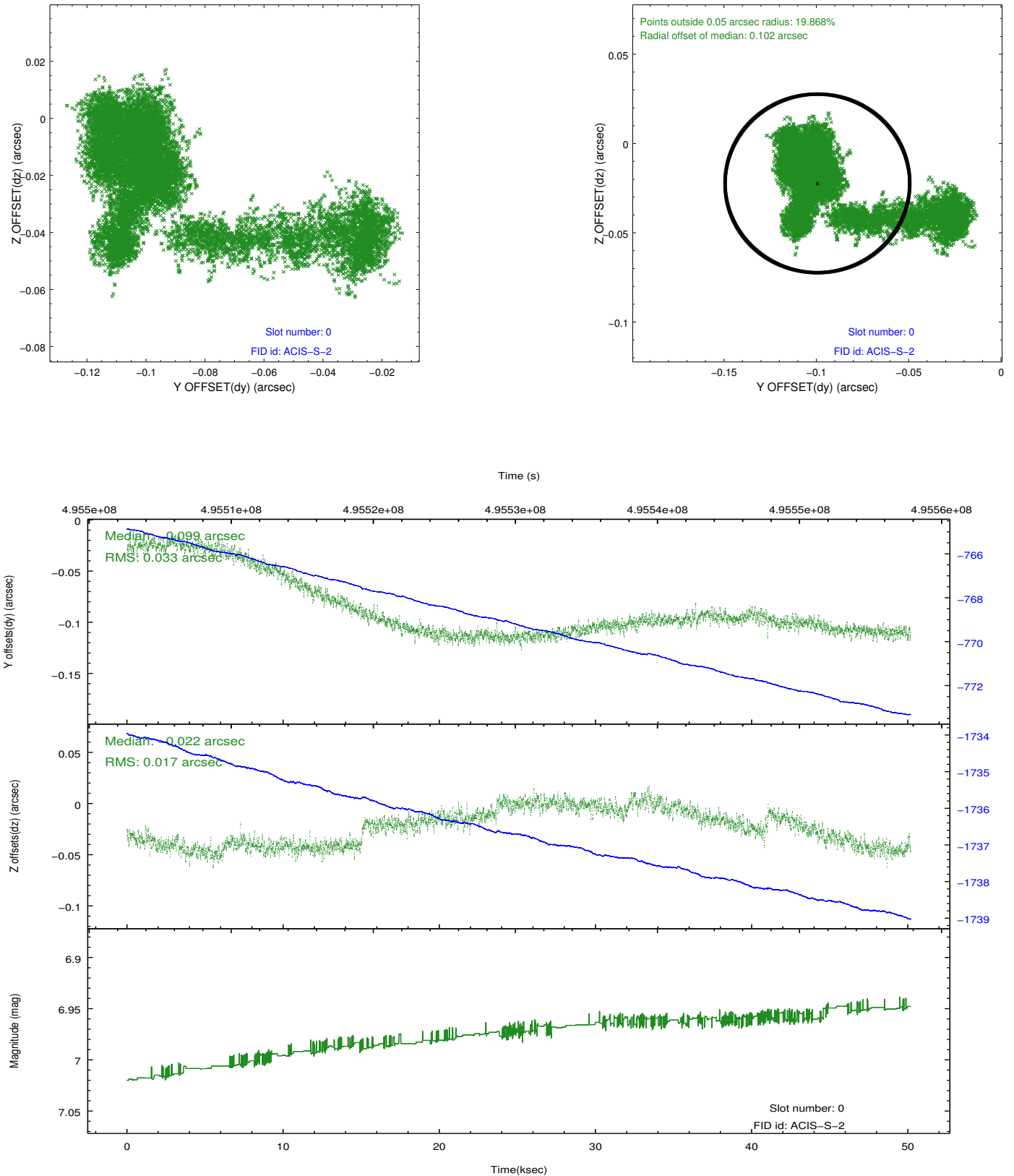


2.4.5 Slot 7

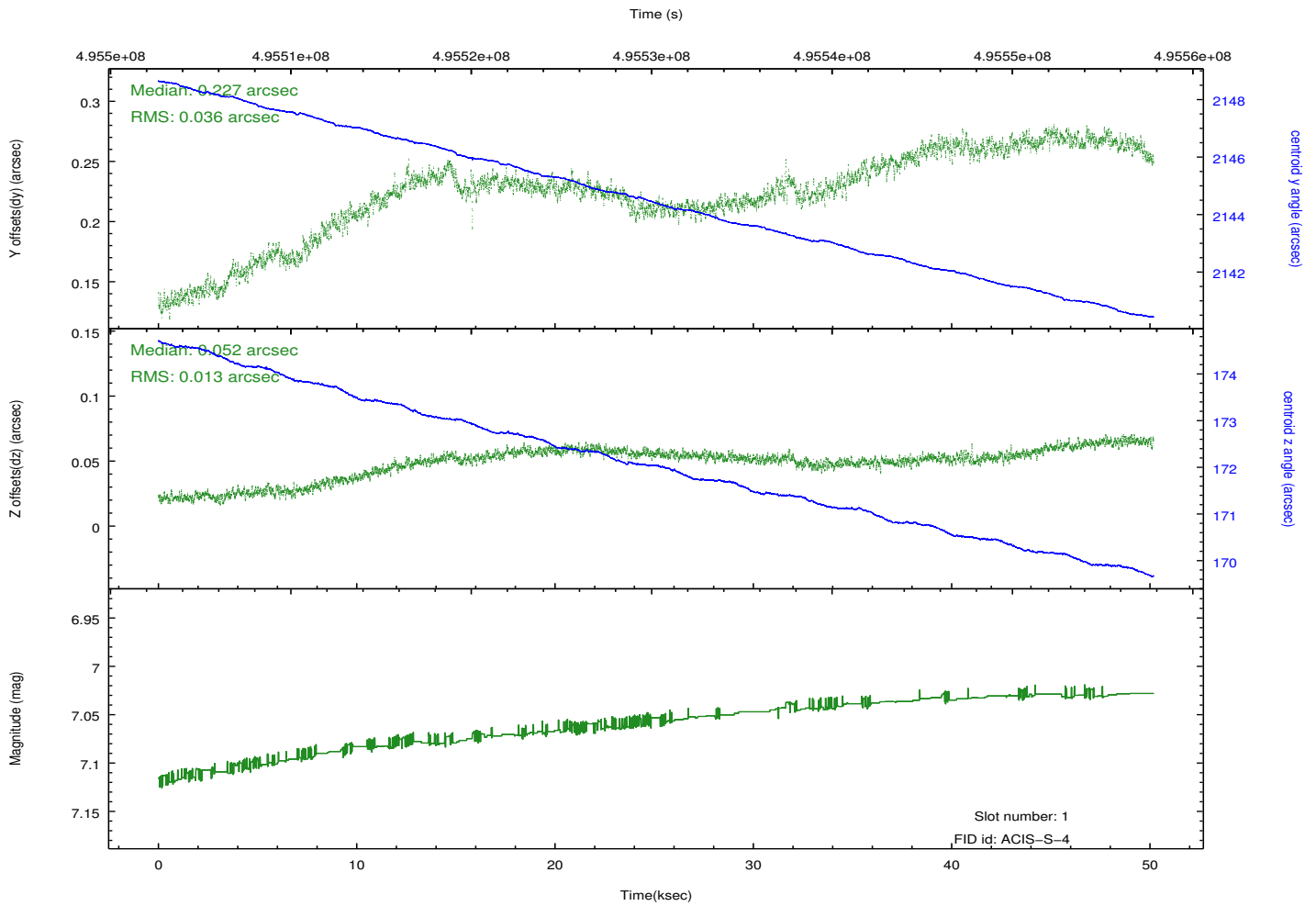
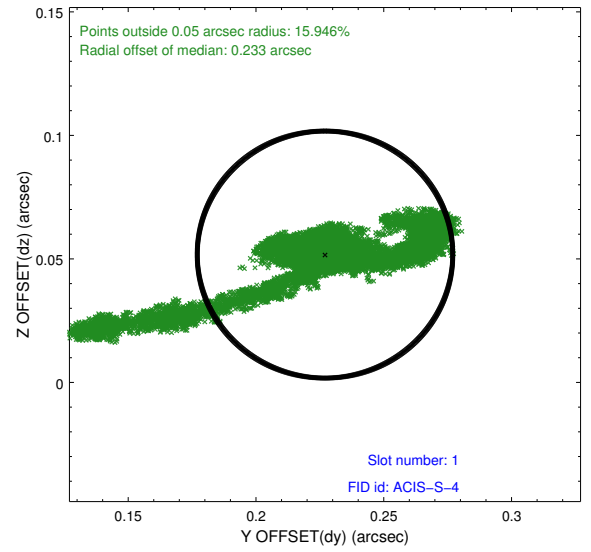
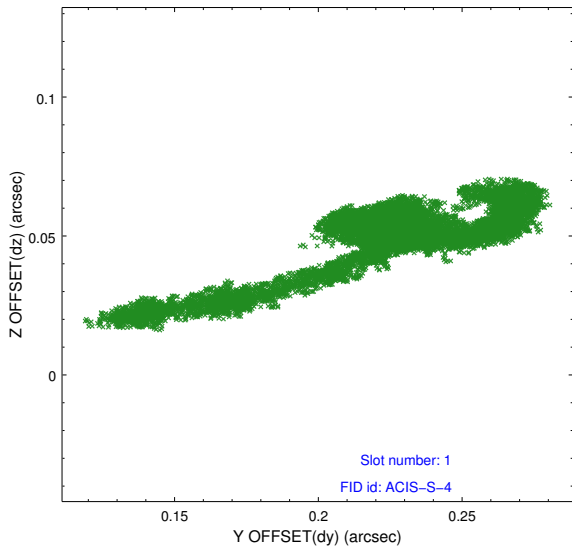


2.5 FID Slots

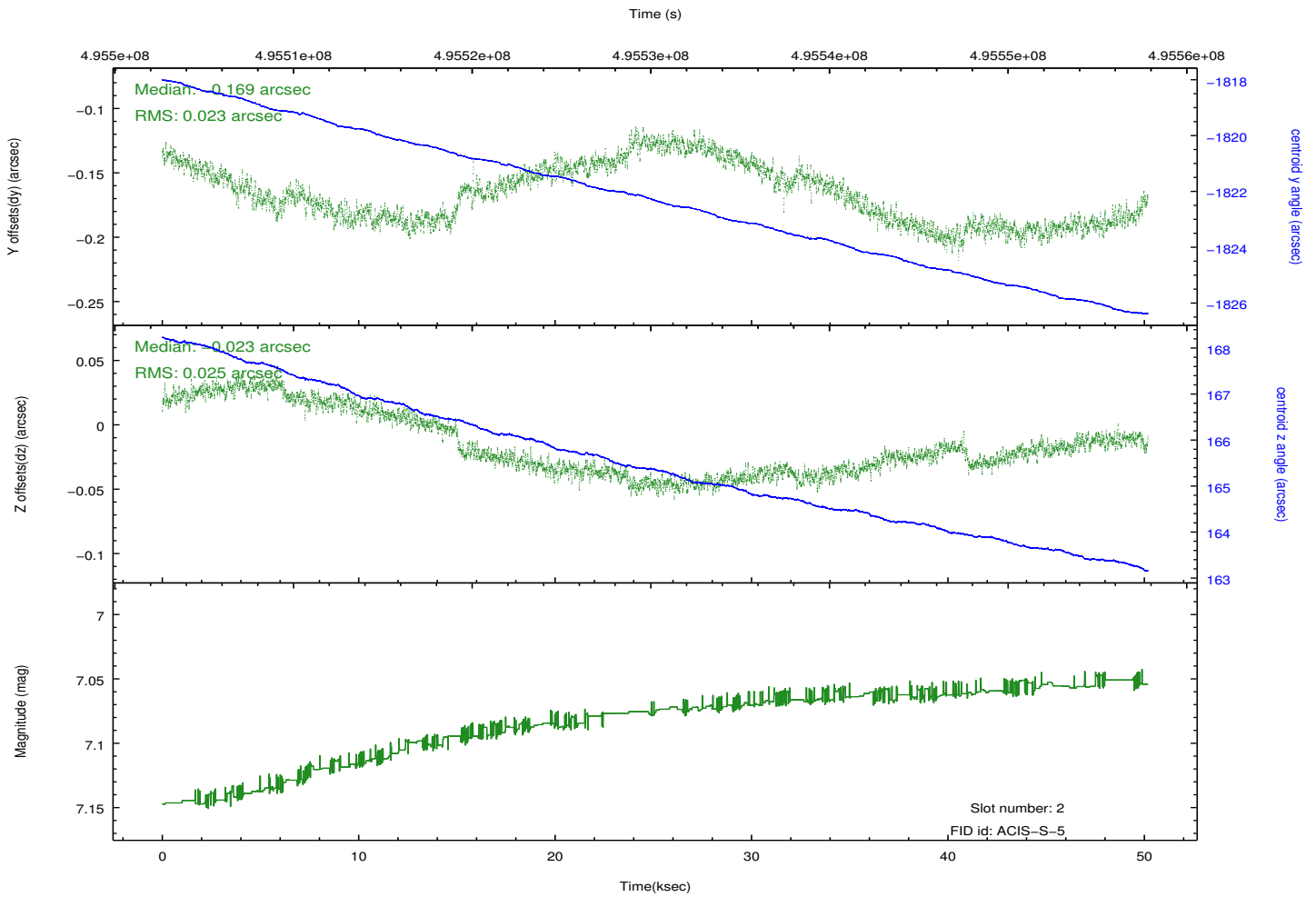
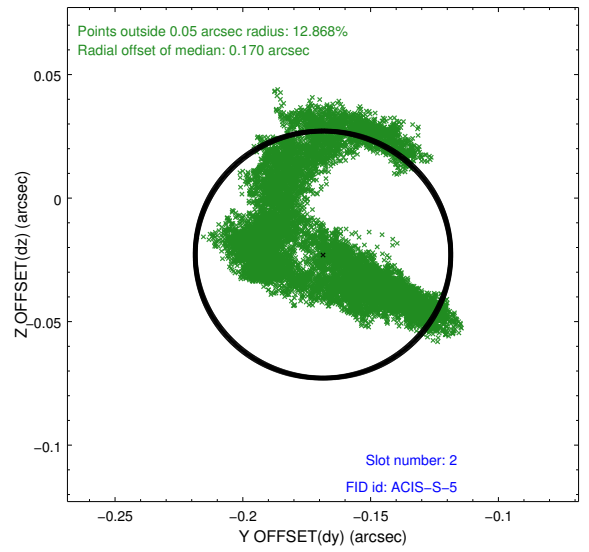
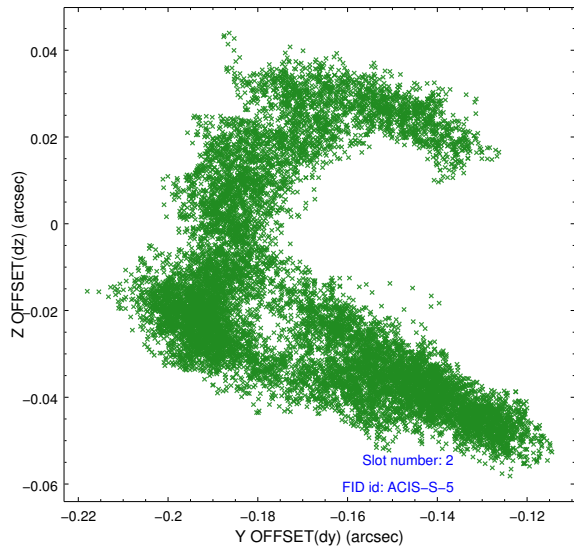
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.069197015643

A.2 Comments

Joint proposal with XMM and NRAO.

Observation coordinated with EVLA.

Window 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.