

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15347 - L2 Version 2
Chandra X-Ray Center

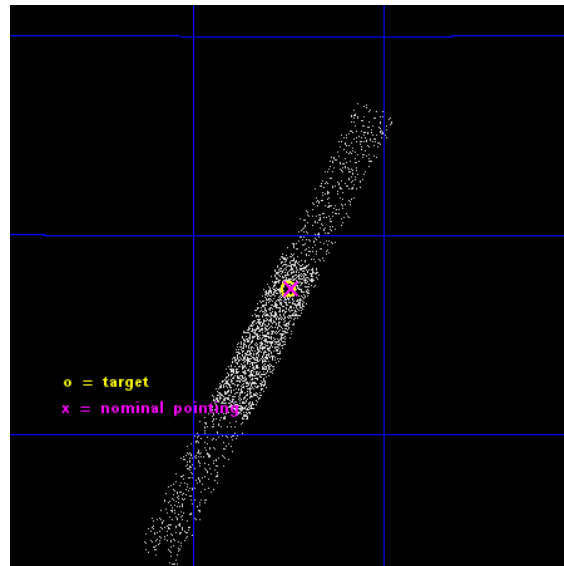
L2 Processing Date : Dec 1 2014

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1 Front

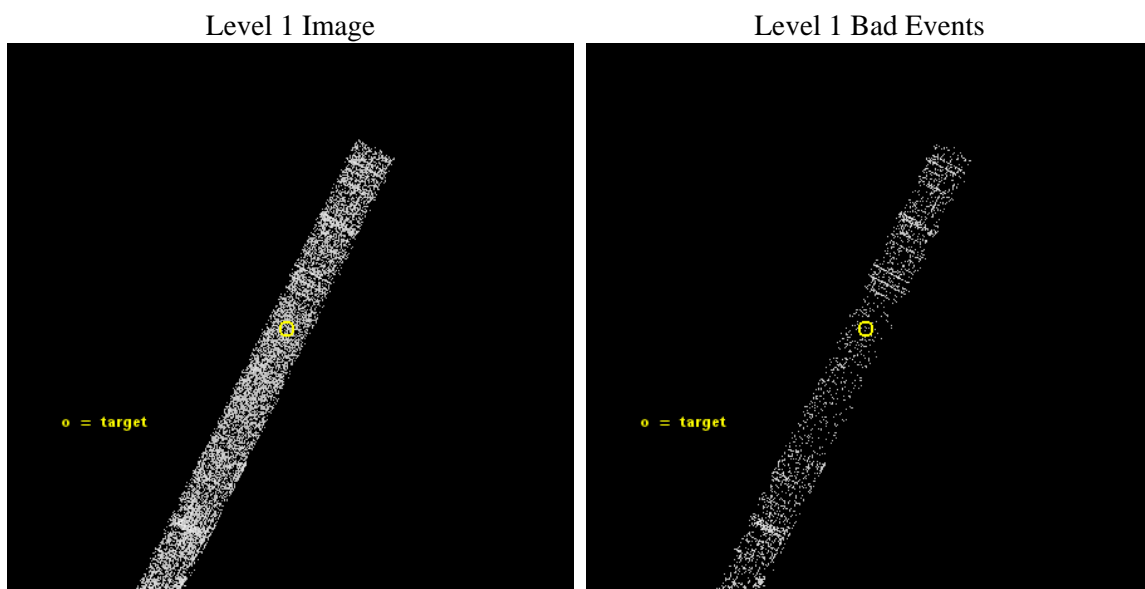
seq_num	702907	Sequence number
obs_id	15347	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1321+4817	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	200.375833	Observer's specified target RA [deg]
dec_targ	48.288667	Observer's specified target Dec [deg]
ra_nom	200.37114325887	Nominal RA [deg]
dec_nom	48.289105010652	Nominal Dec [deg]
roll_nom	117.04051497236	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2593.7999312878	Sum of GTIs [s]
livetime	2480.680883022	Livetime [s]
ontime6	2593.7999312878	Sum of GTIs [s]
ontime7	2593.7999312878	Sum of GTIs [s]
ontime8	2593.7999312878	Sum of GTIs [s]
l2events	2856	Number of level 2 events



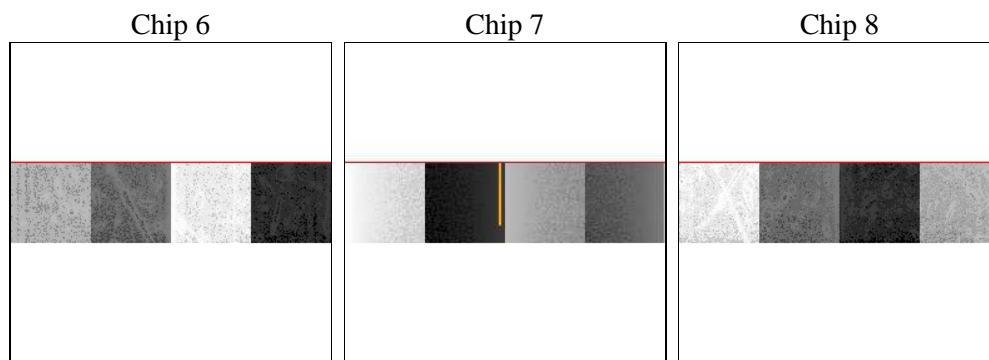
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2593.7999312878	Sum of GTIs [s]
caldbver	4.6.4	 	ontime6	2593.7999312878	Sum of GTIs [s]
date	2014-12-01T13:33:20	Date and time of file creation	ontime7	2593.7999312878	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	2593.7999312878	Sum of GTIs [s]
			l1events	13940	Number of level 1 events

2.1.4 Events

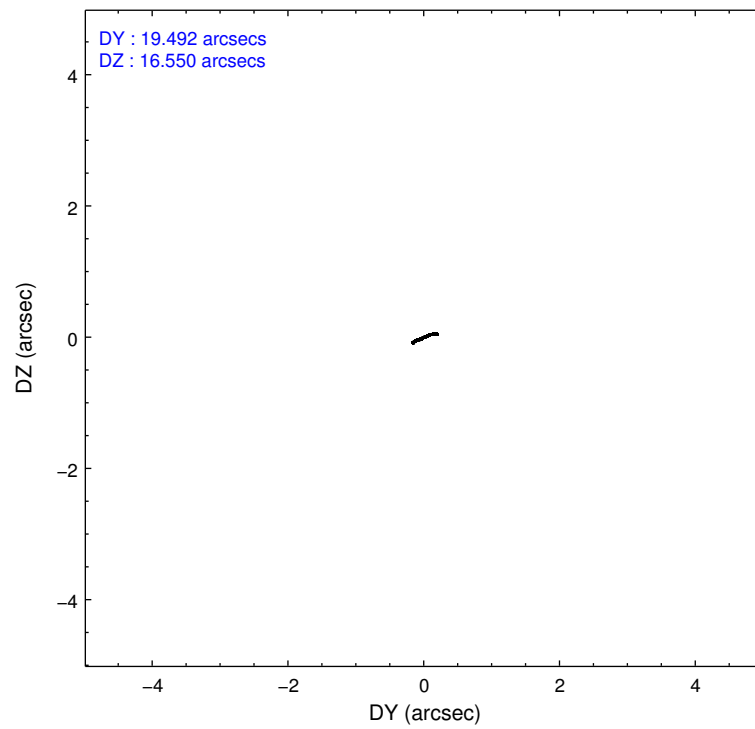
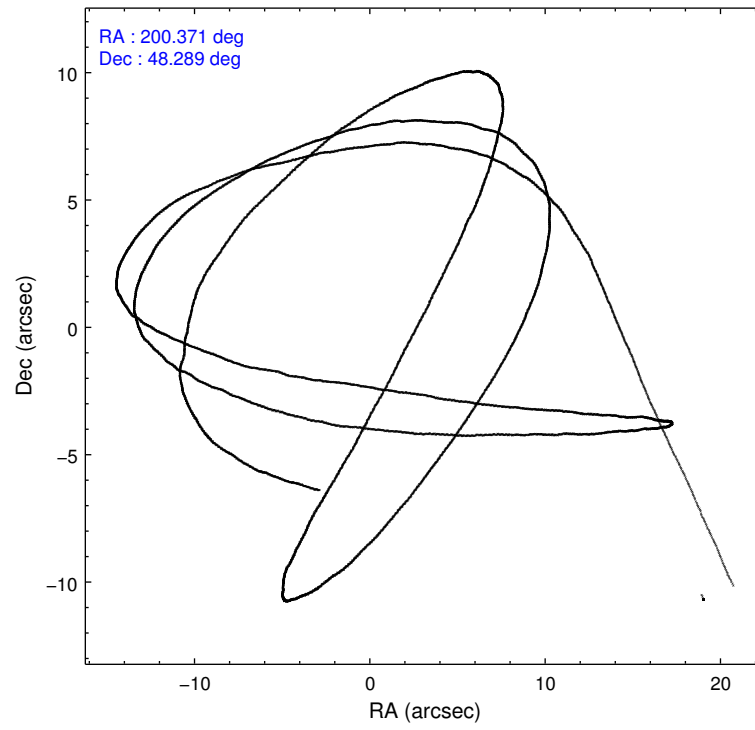
	ccd 6	ccd 7	ccd 8
level 1 events	4264	4184	5492
rejected events	3742	2073	4056
rejected %	87%	49%	73%

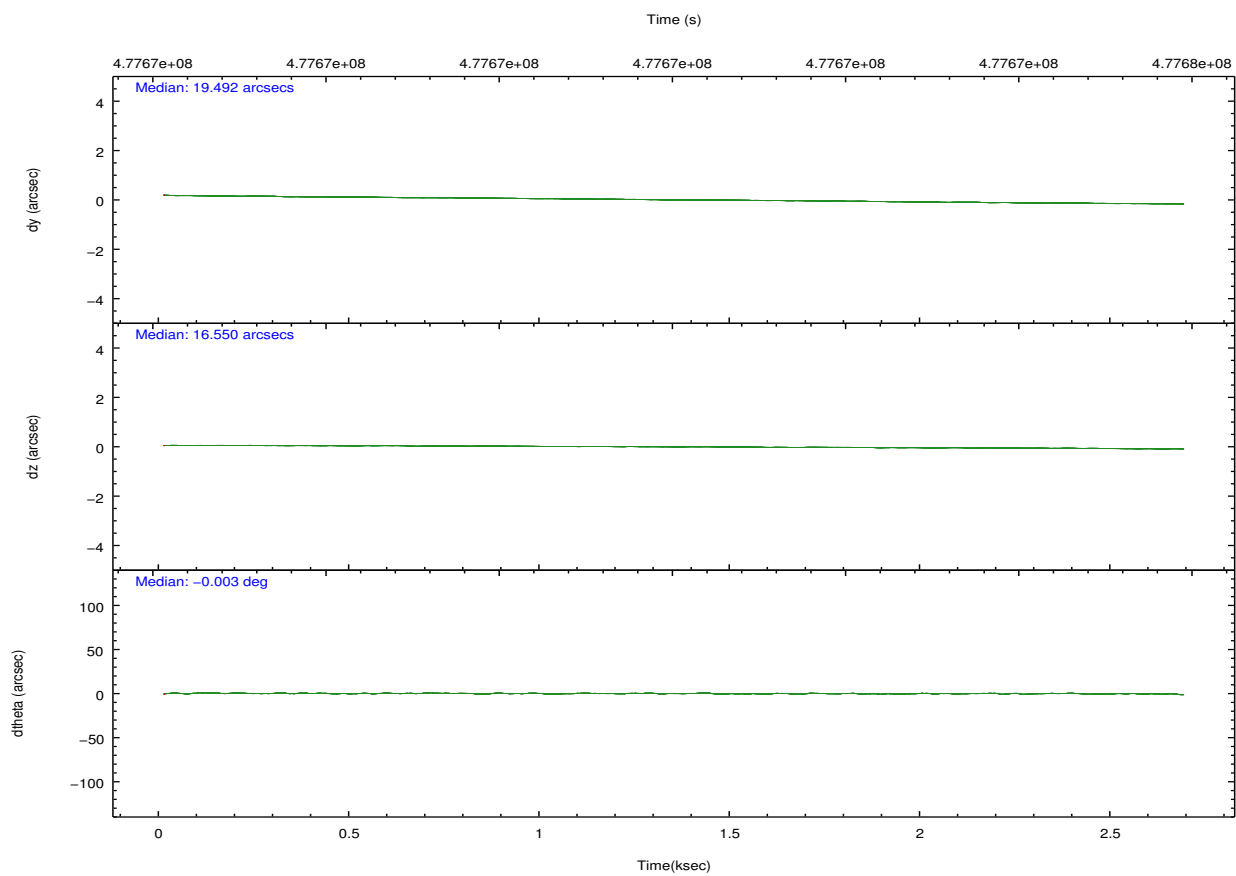
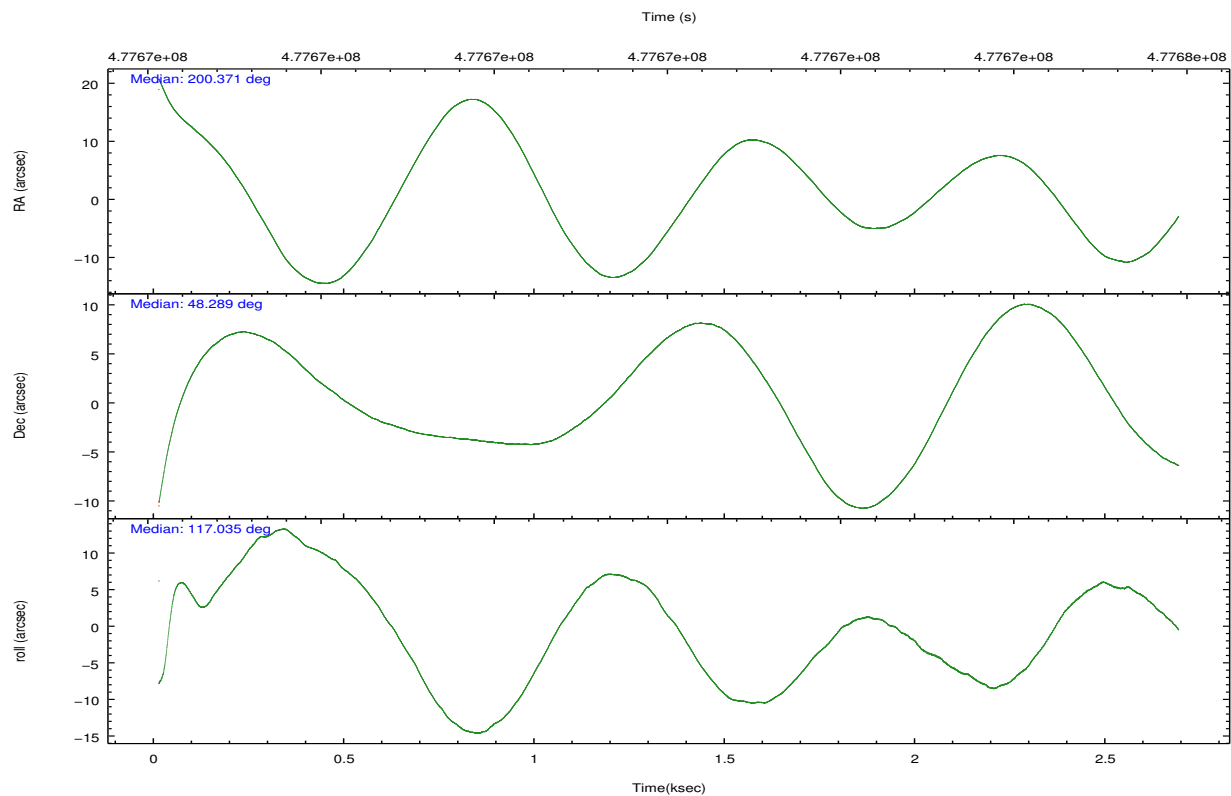
	ccd 6	ccd 7	ccd 8
grade 0 events	147	236	376
	3%	5%	6%
grade 1 events	1	7	7
	0%	0%	0%
grade 2 events	94	465	338
	2%	11%	6%
grade 3 events	93	236	181
	2%	5%	3%
grade 4 events	87	225	163
	2%	5%	2%
grade 5 events	162	479	215
	3%	11%	3%
grade 6 events	101	950	378
	2%	22%	6%
grade 7 events	3579	1586	3834
	83%	37%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	200.406072	200.3711432588732	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	48.274383	48.28910501065246	Subarray start row	385	385
[deg] Pointing Roll	116.857847	117.0405149723572	Subarray row count	256	256
[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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	477672354.184000	477671480.88505			
Observation start date	2013-02-19T14:44:47	2013-02-19T14:31:20			
[s] Observation end time (MET)	477674854.184000	477675802.79778			
Observation end date	2013-02-19T15:26:27	2013-02-19T15:43:22			
Read mode	TIMED	TIMED			

2.3 Aspect



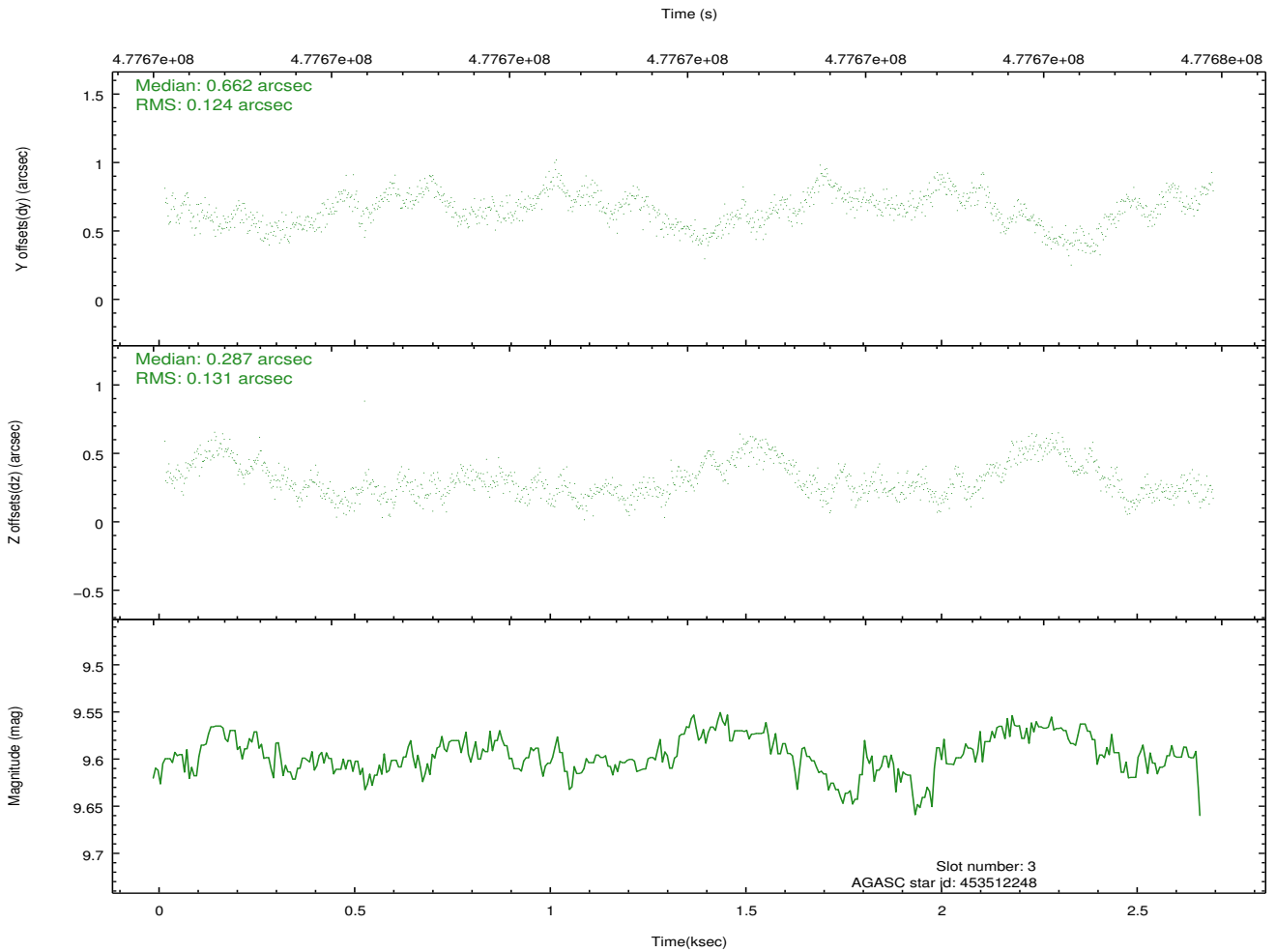
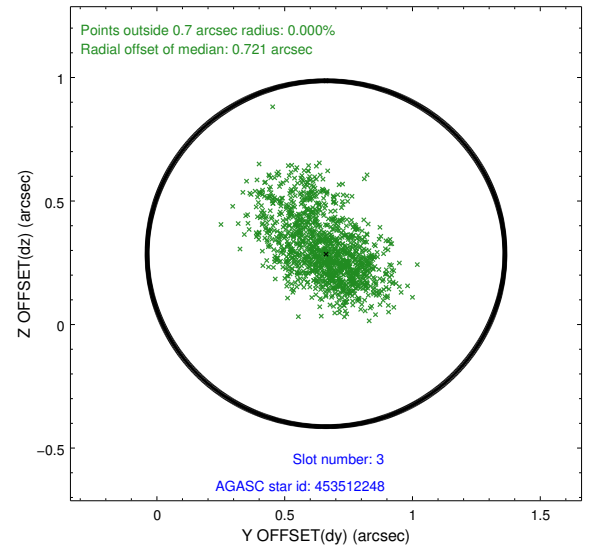
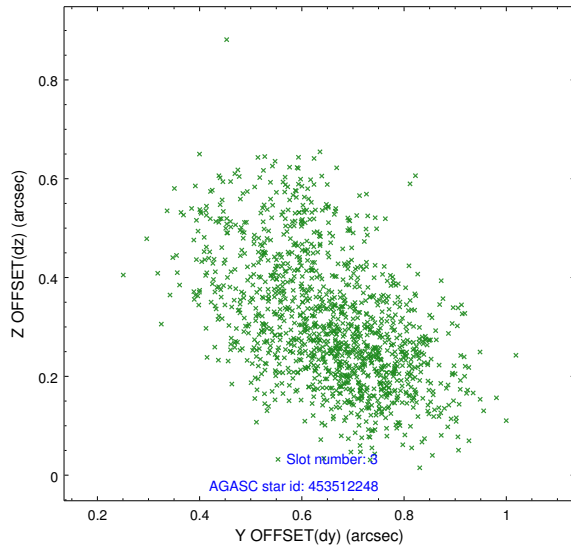


Slot Statistics

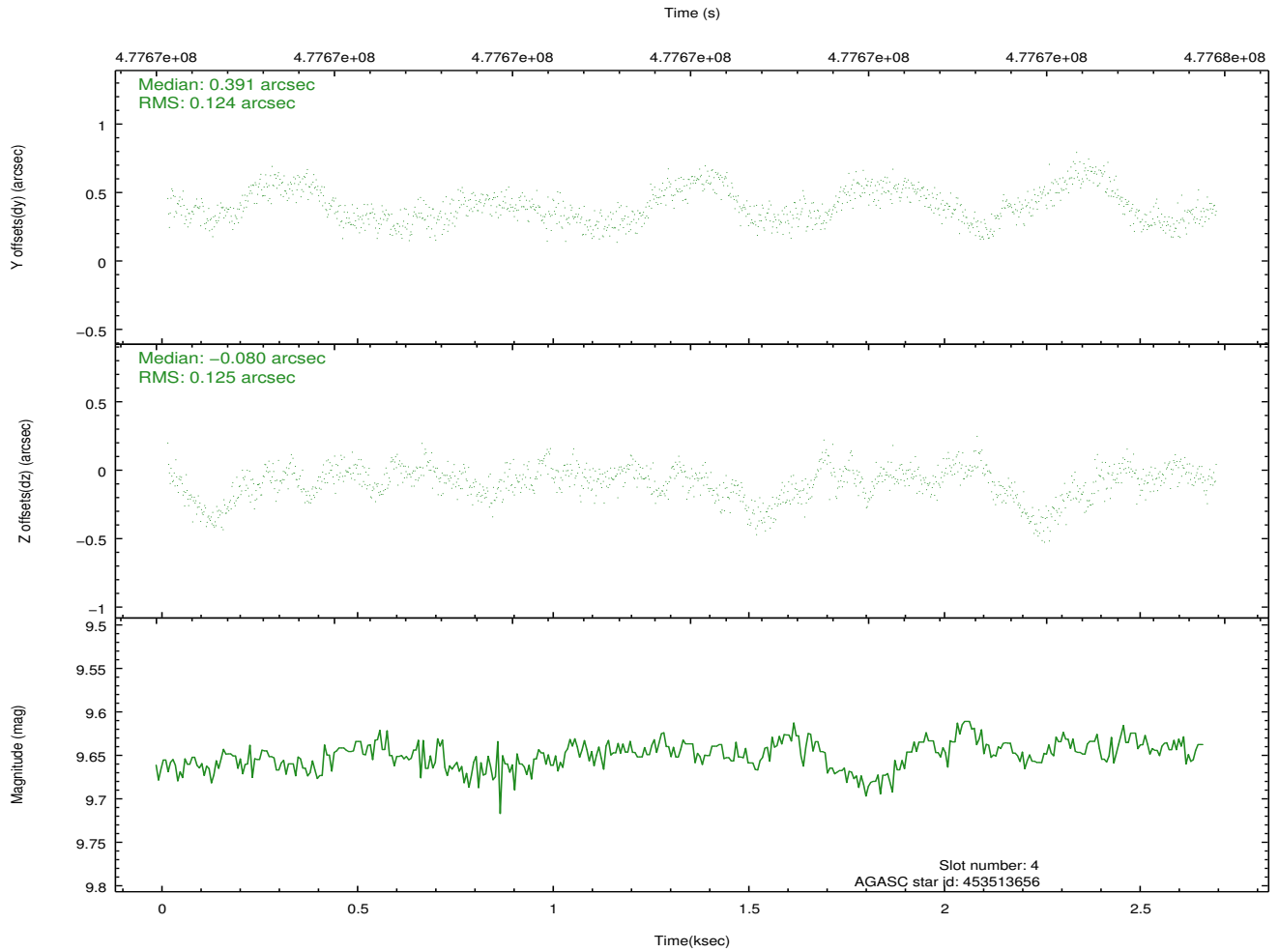
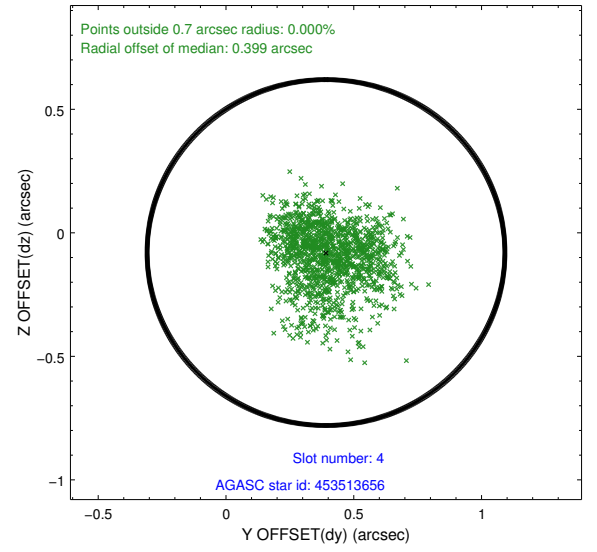
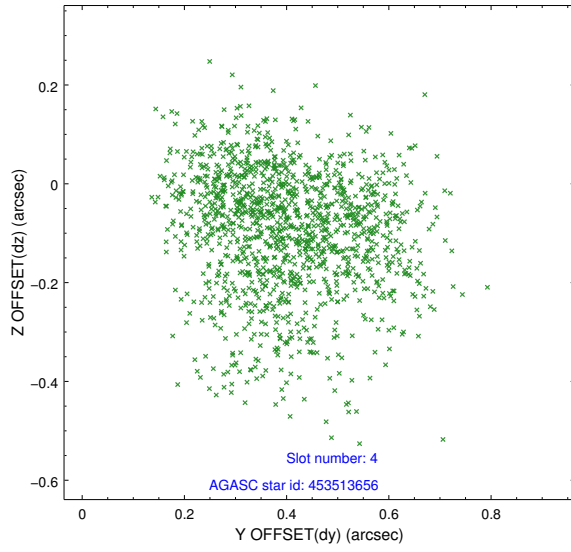
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	654	-0.134	-0.035	0.007	0.011	0.000000	0.000000	-772.74	-1737.94
1	FID		ACIS-S-4	7.12	654	0.305	0.074	0.006	0.010	0.000000	0.000000	2139.88	168.13
2	FID		ACIS-S-5	7.15	654	-0.202	-0.030	0.007	0.011	0.000000	0.000000	-1822.56	164.47
3	GUIDE	used	453512248	9.60	1304	0.662	0.287	0.186	0.323	201.460776	47.989411	-2047.60	-1811.22
4	GUIDE	used	453513656	9.65	1308	0.391	-0.080	0.187	0.308	201.125461	47.854002	-2129.46	-871.68
5	GUIDE	used	453517024	9.82	1297	-0.111	-0.339	0.185	0.294	199.983416	48.305771	558.12	849.45
6	GUIDE	used	453518352	9.52	1302	-0.265	-0.427	0.162	0.259	199.608426	48.360754	1147.52	1557.64
7	GUIDE	used	453784360	9.30	1300	-0.670	0.535	0.127	0.208	201.087662	48.885097	1238.64	-2434.06

2.4 Star Slots

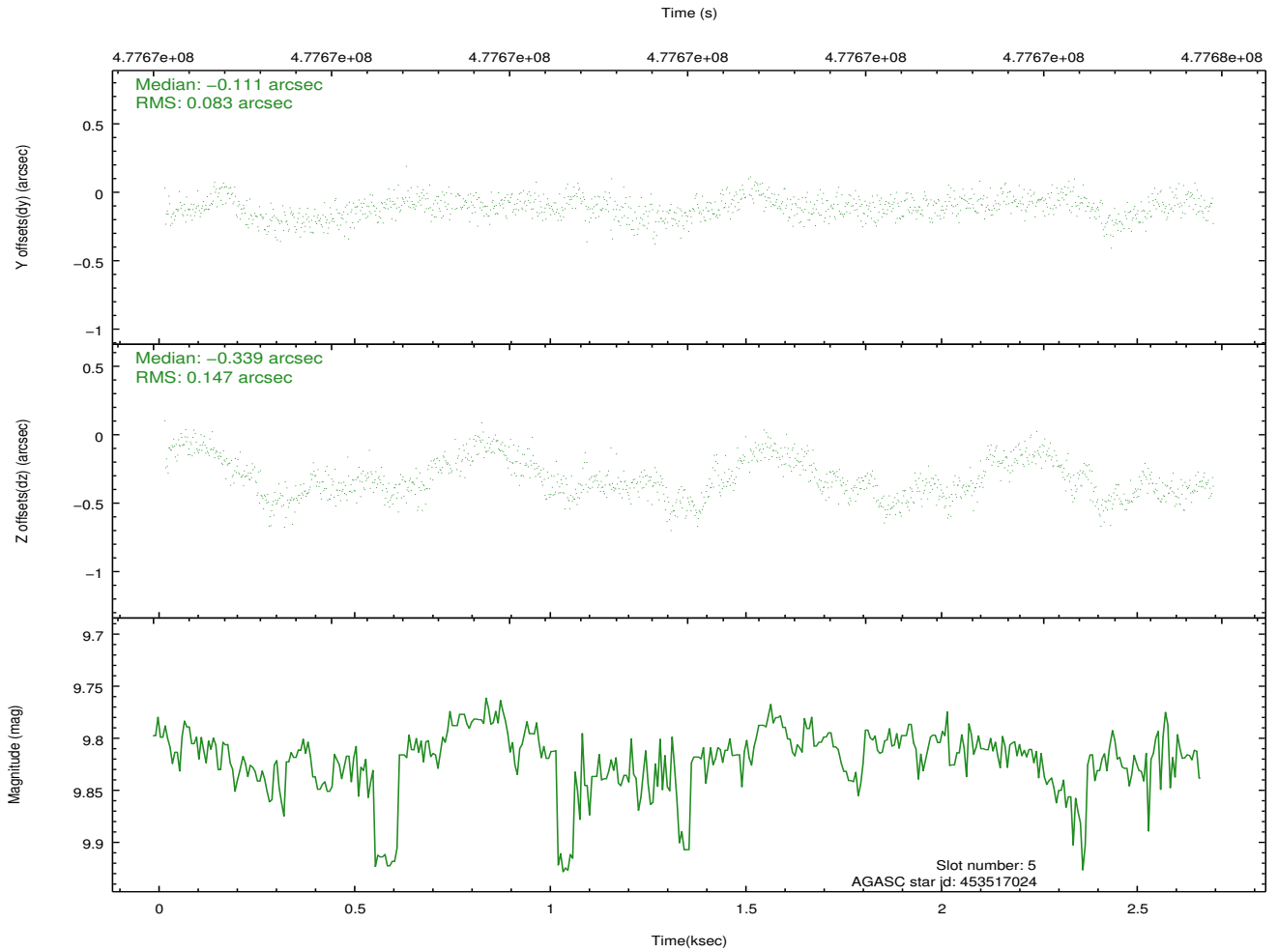
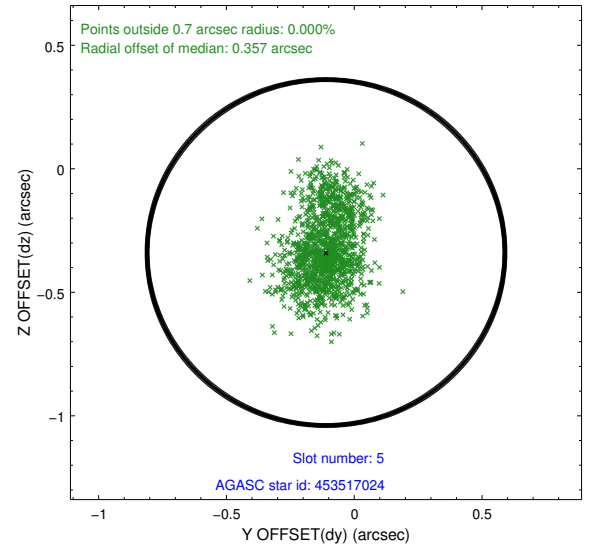
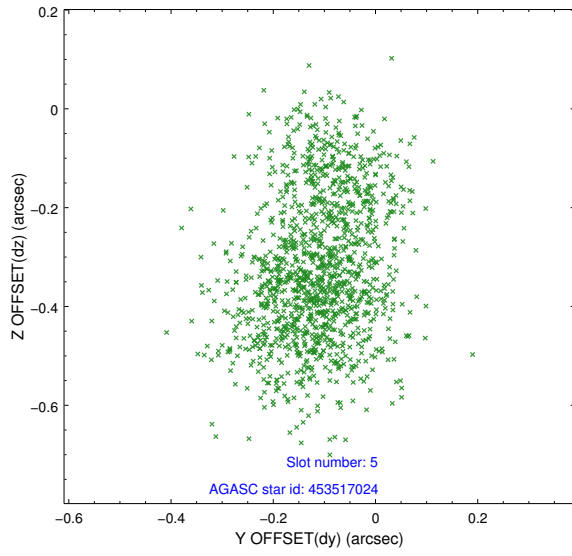
2.4.1 Slot 3



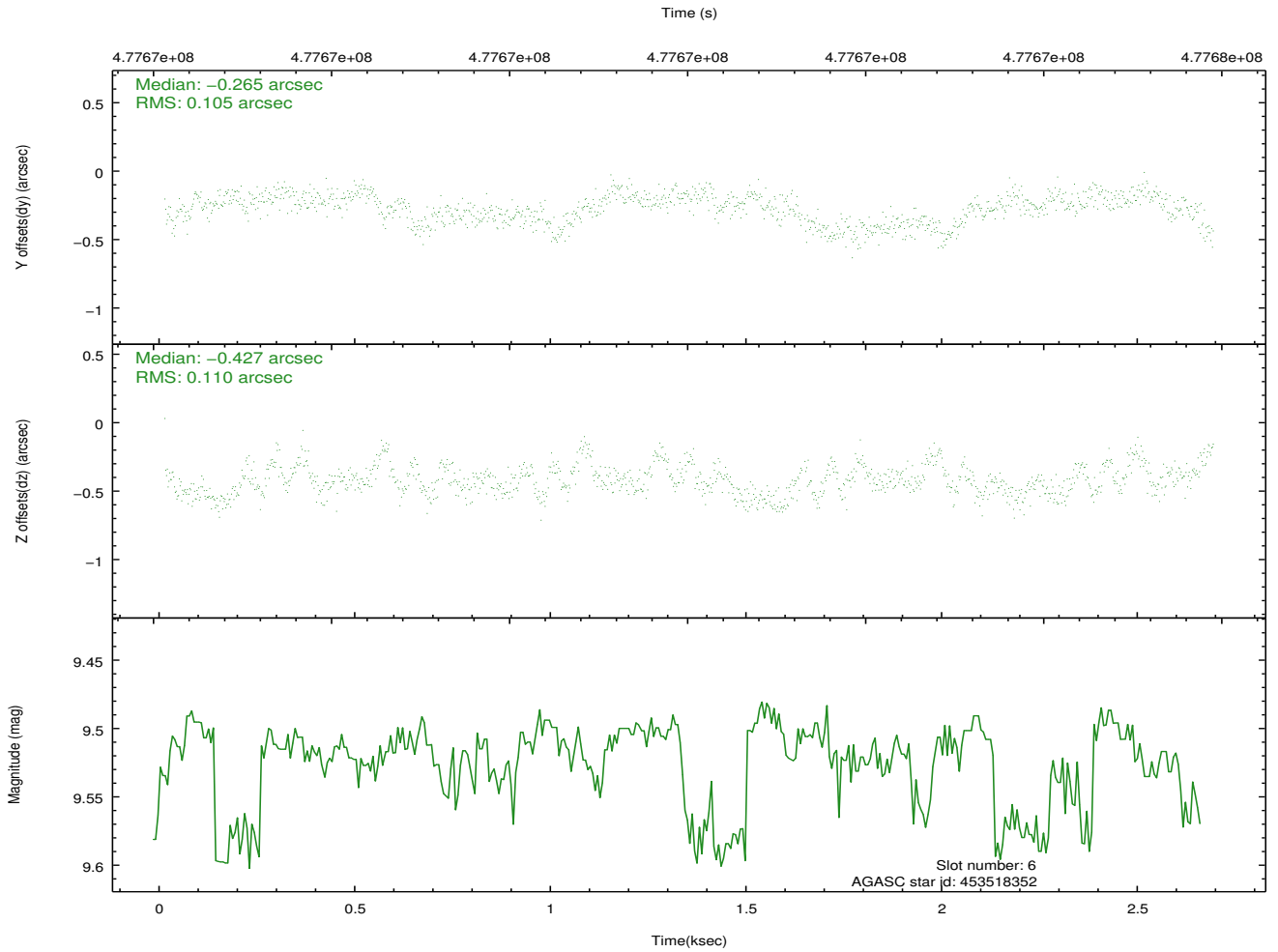
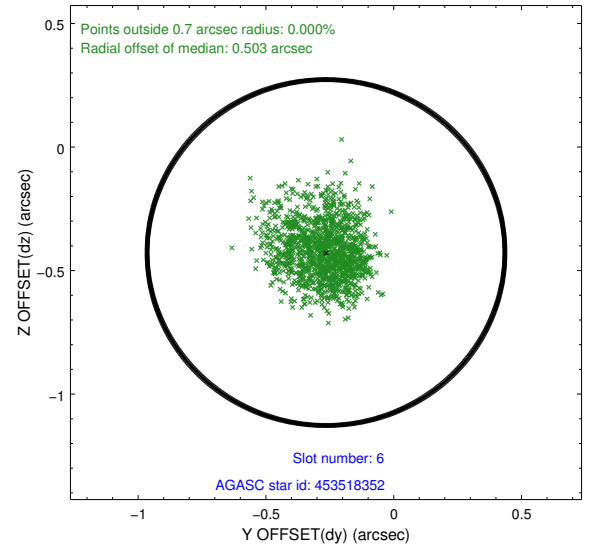
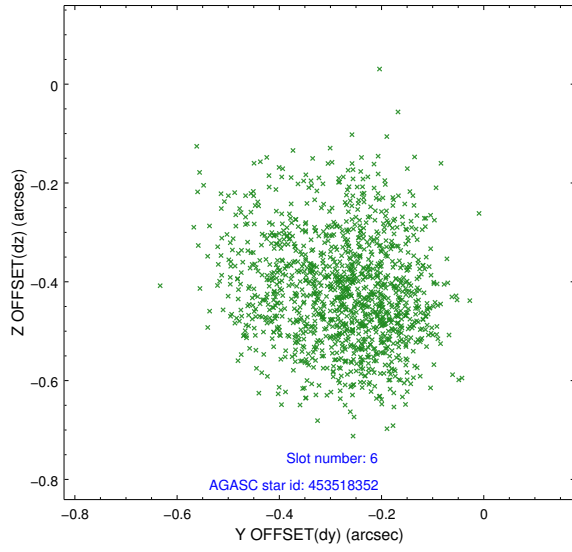
2.4.2 Slot 4



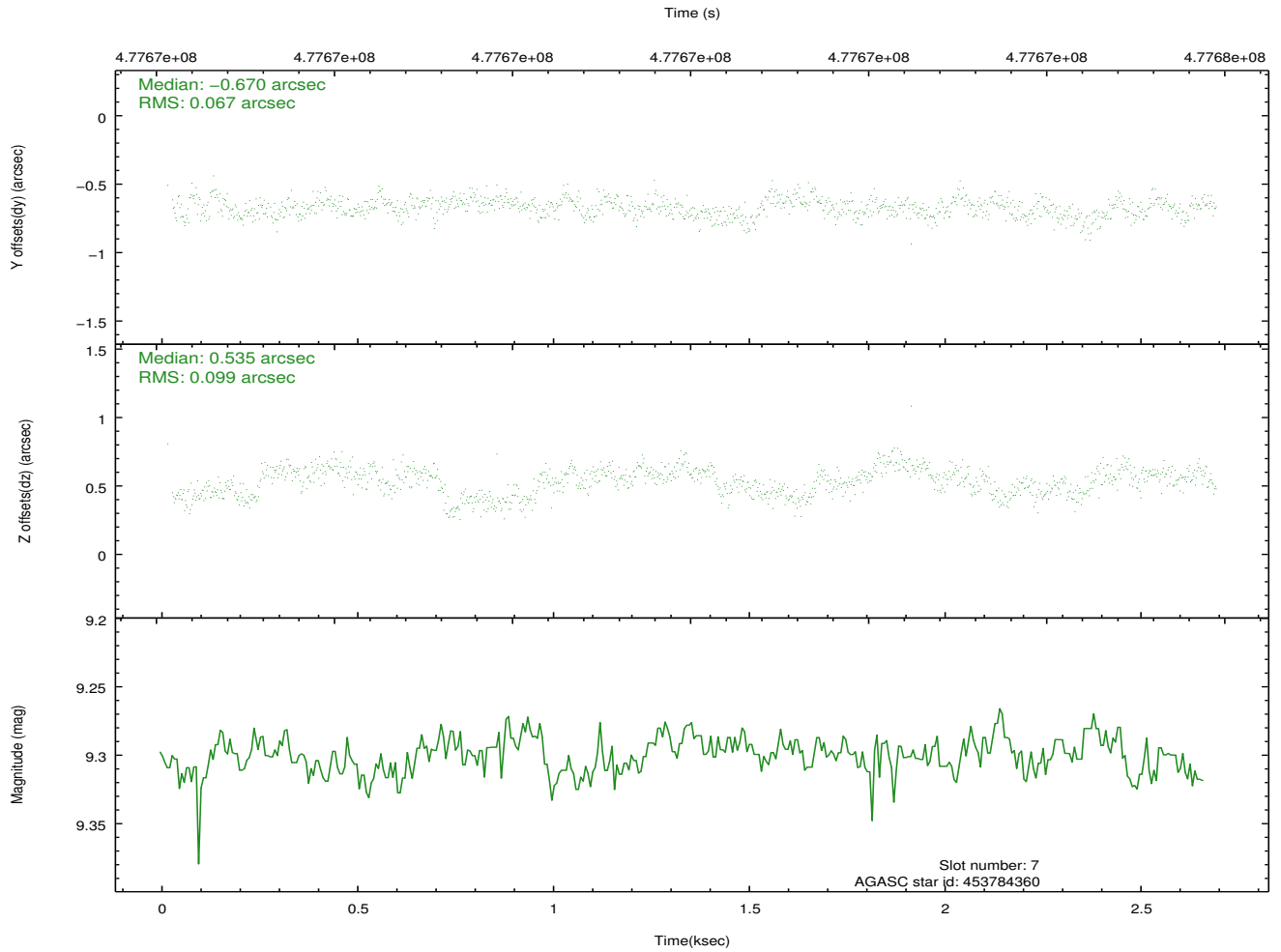
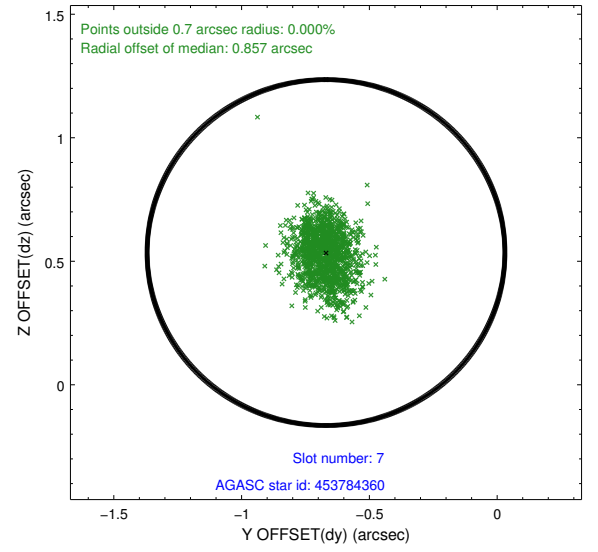
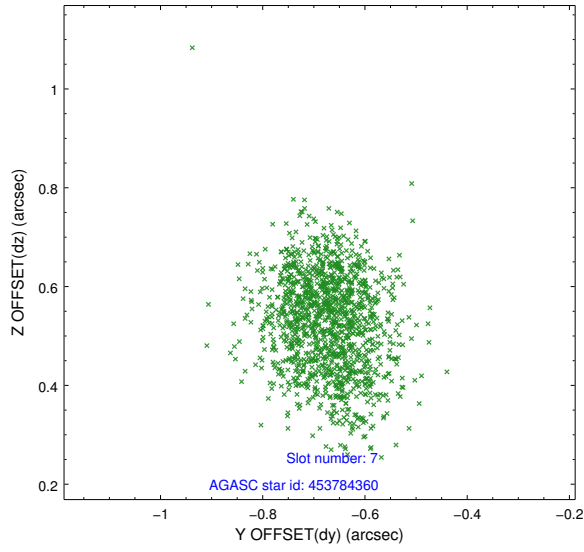
2.4.3 Slot 5



2.4.4 Slot 6

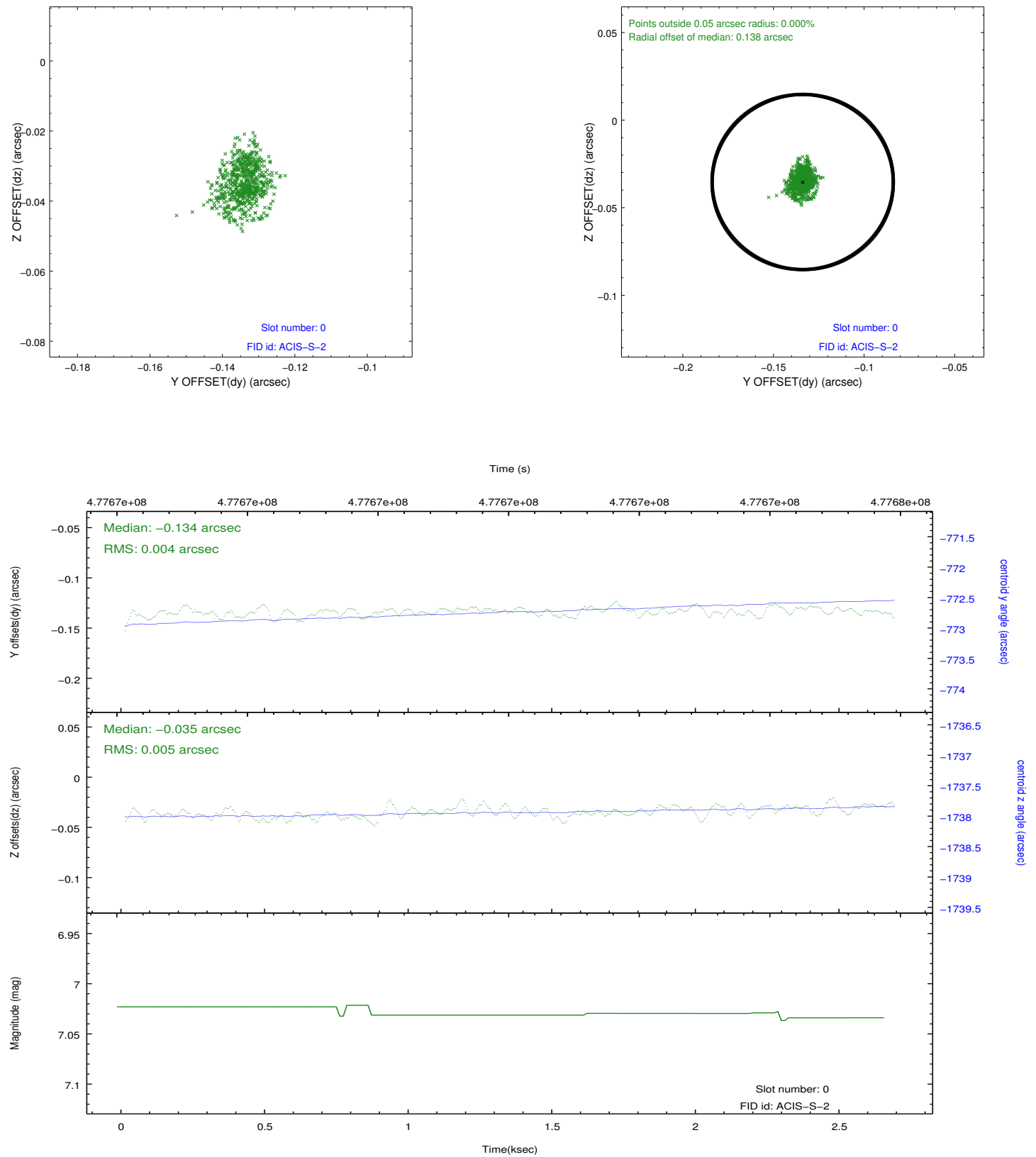


2.4.5 Slot 7

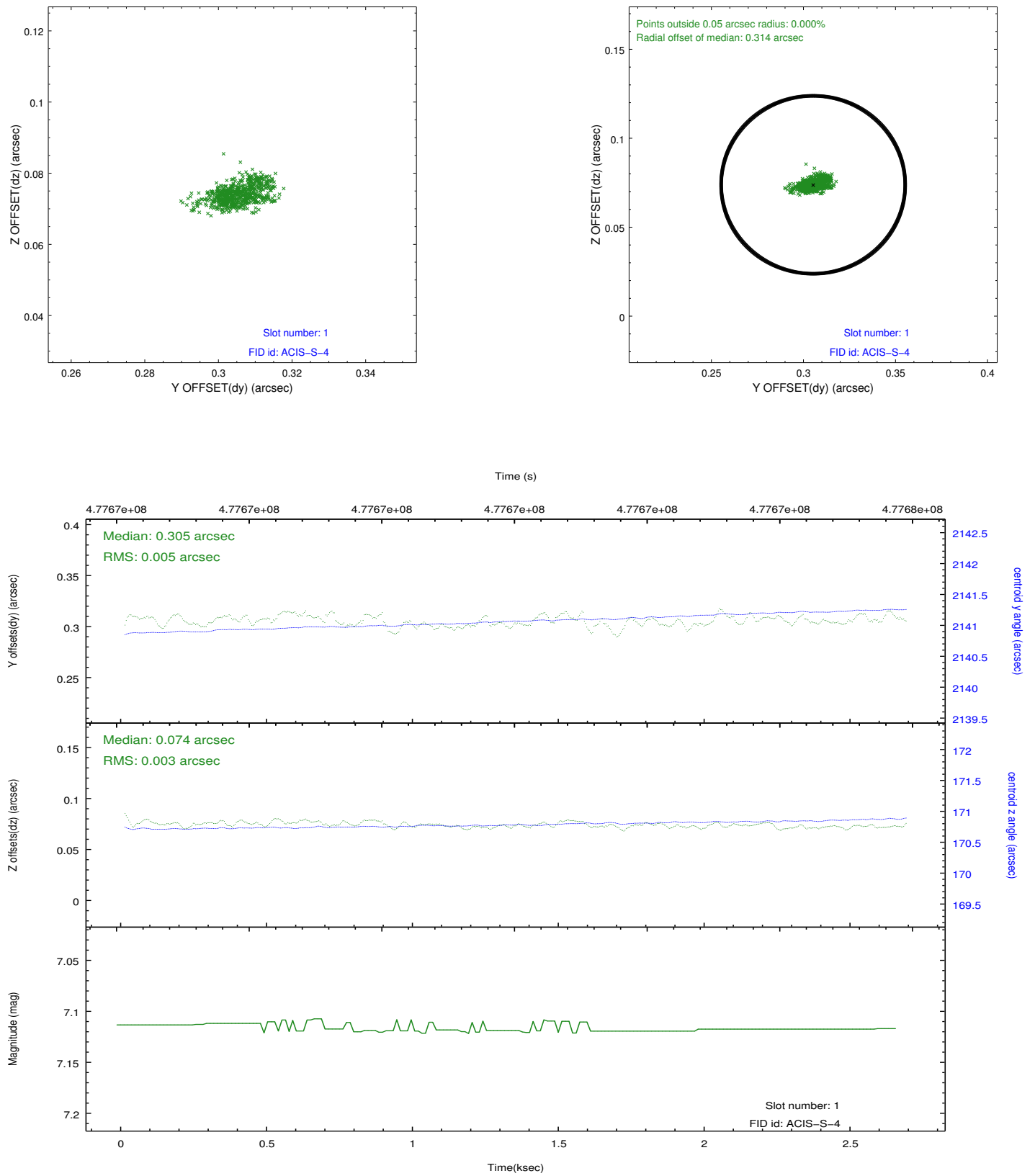


2.5 FID Slots

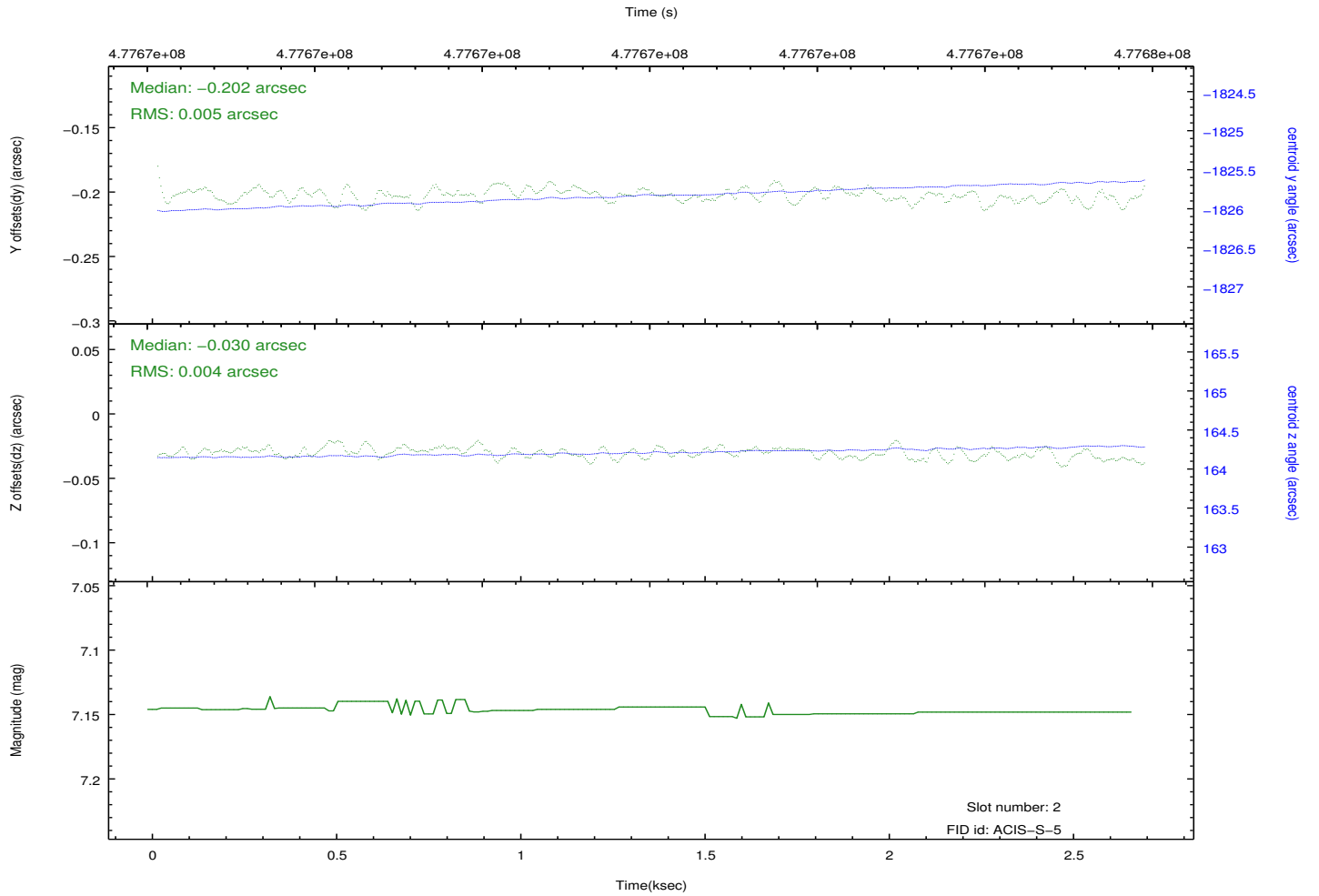
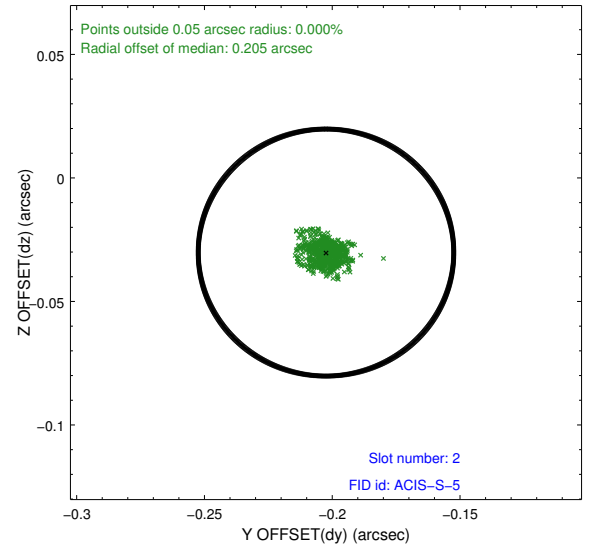
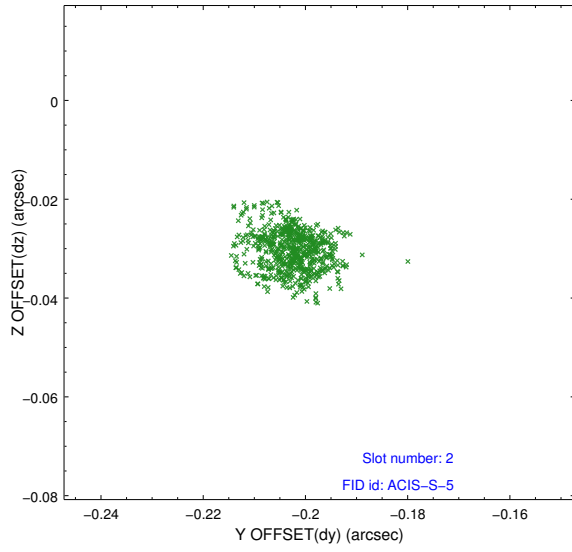
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5937999312878

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.