

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15343 - L2 Version 3
Chandra X-Ray Center

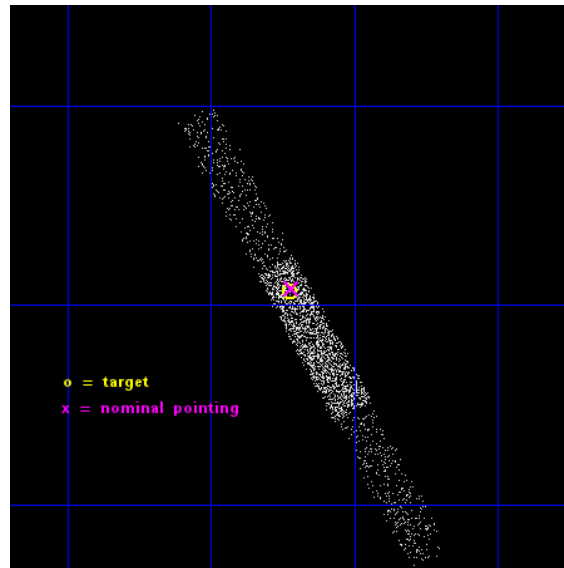
L2 Processing Date : Dec 1 2014

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1 Front

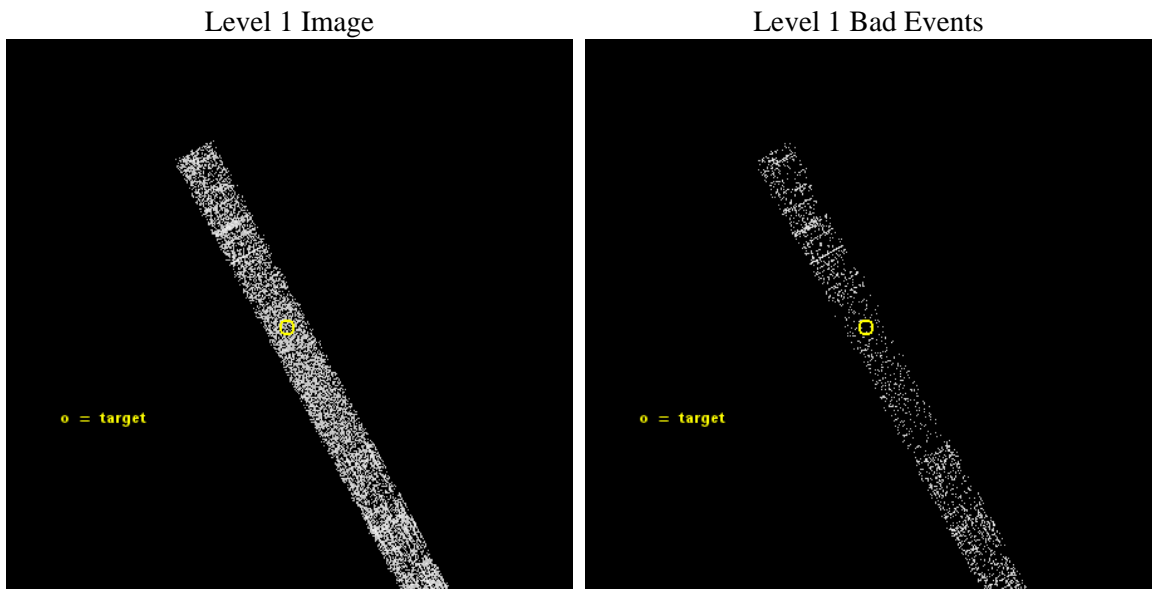
seq_num	702903	Sequence number
obs_id	15343	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1134+0010	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.55625	Observer's specified target RA [deg]
dec_targ	0.178306	Observer's specified target Dec [deg]
ra_nom	173.55468927814	Nominal RA [deg]
dec_nom	0.18080939704825	Nominal Dec [deg]
roll_nom	61.21871582913	Nominal Roll [deg]
revision	3	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	2760	Number of level 2 events



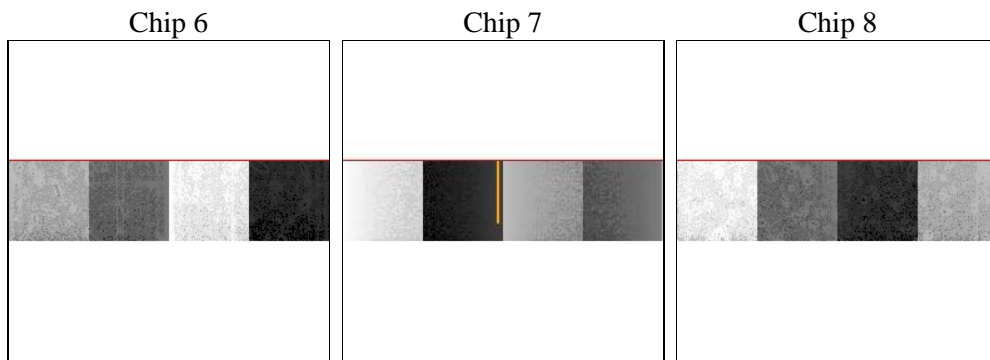
2 OBI

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	2014-12-01T13:36:19	Date and time of file creation	ontime7	2593.7999312878	Sum of GTIs [s]
revision	3	Processing version of data	ontime8	2593.7999312878	Sum of GTIs [s]
			l1events	13328	Number of level 1 events

2.1.4 Events

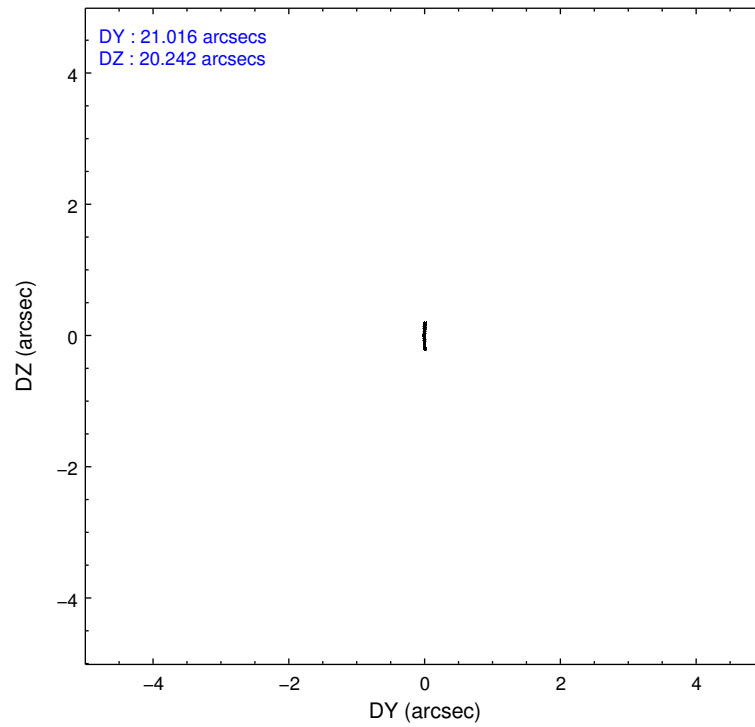
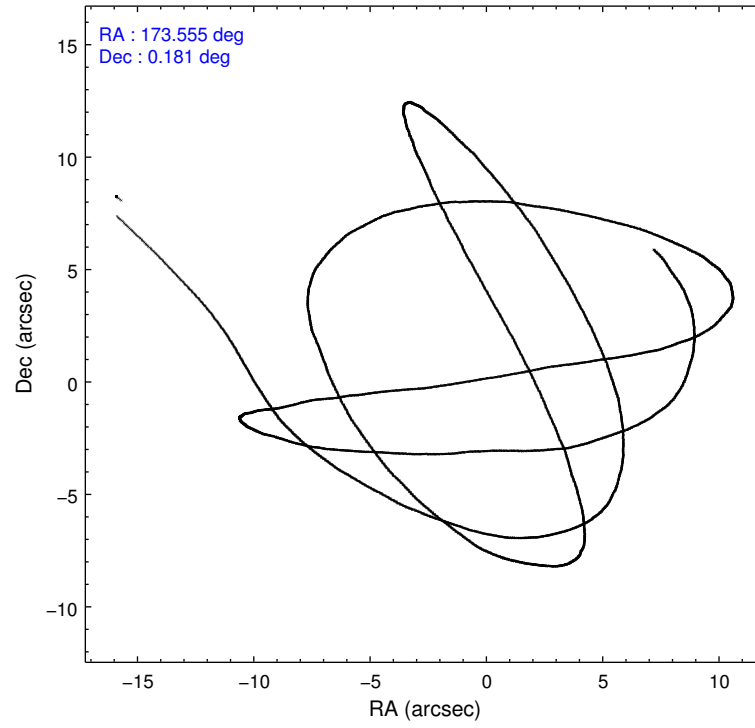
	ccd 6	ccd 7	ccd 8
level 1 events	3884	4079	5365
rejected events	3415	1993	4045
rejected %	87%	48%	75%

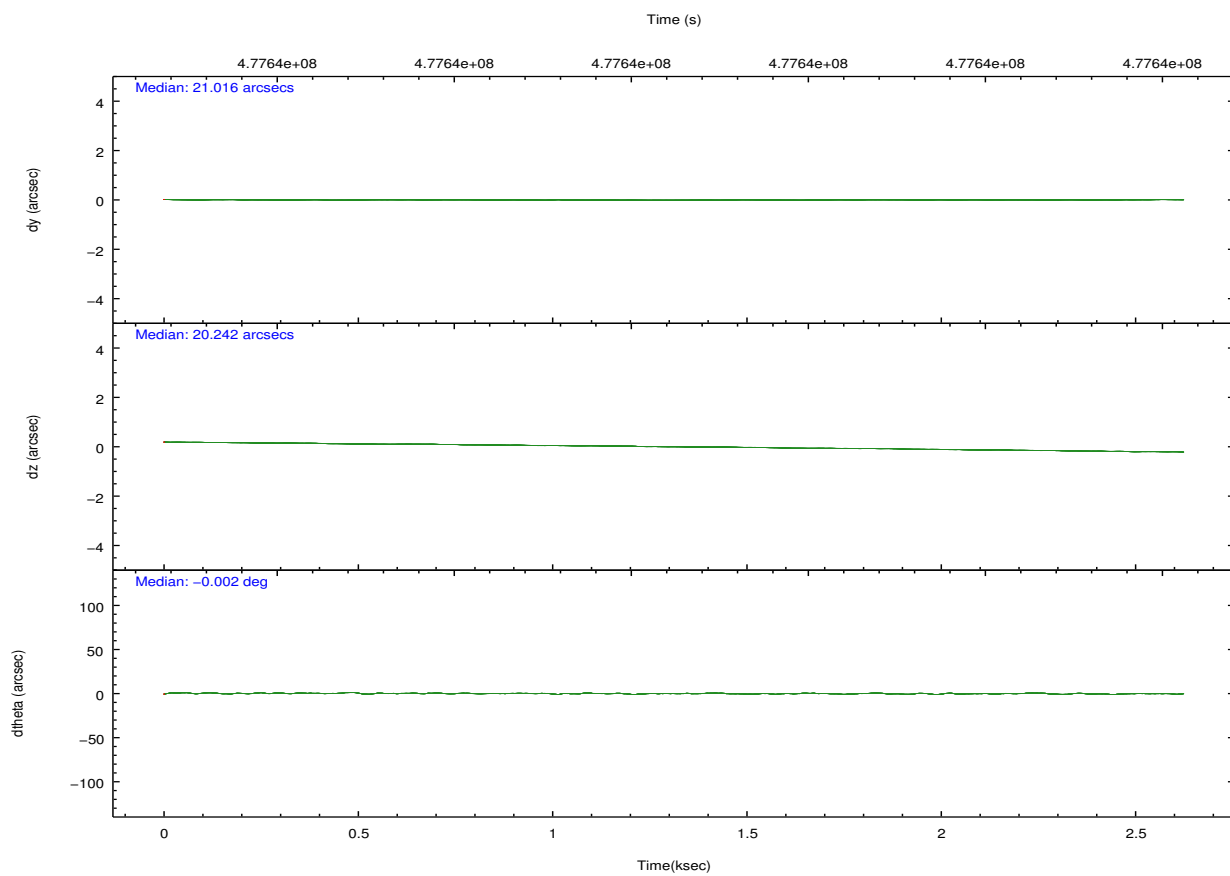
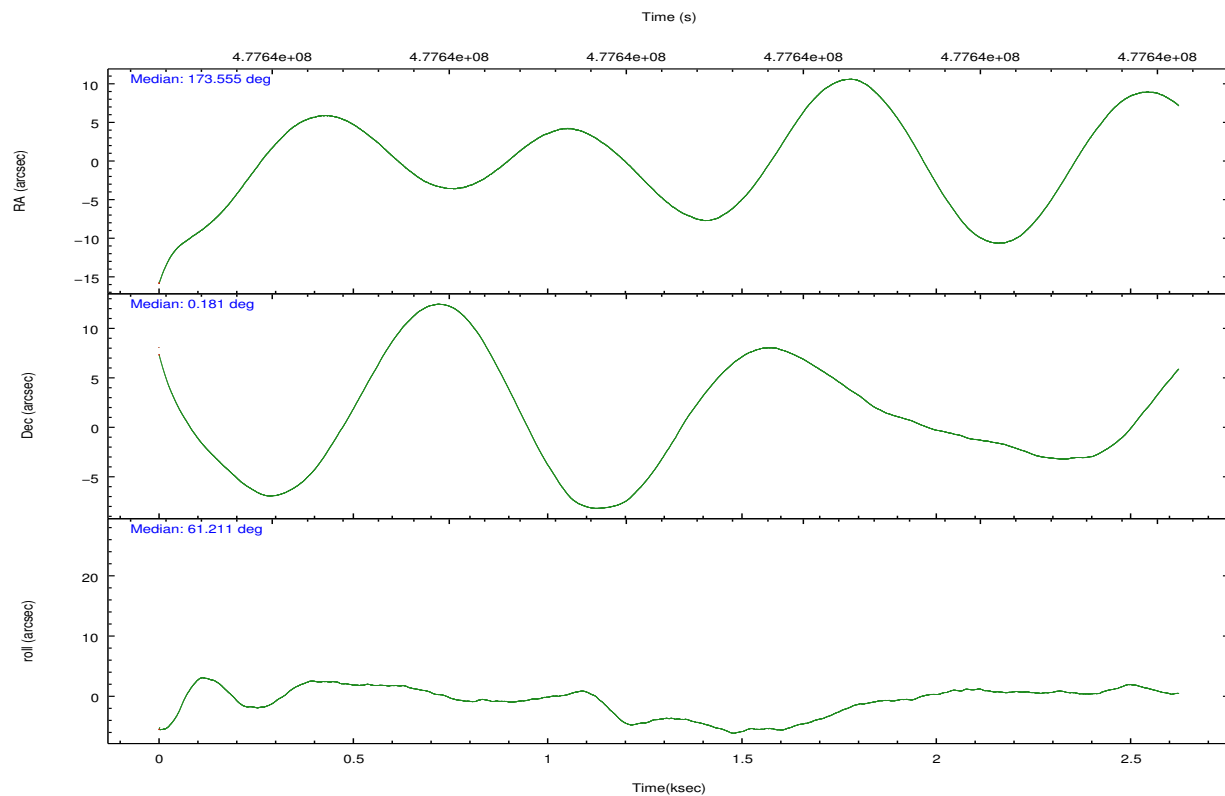
	ccd 6	ccd 7	ccd 8
grade 0 events	121	221	273
	3%	5%	5%
grade 1 events	0	10	3
	0%	0%	0%
grade 2 events	93	421	350
	2%	10%	6%
grade 3 events	81	258	106
	2%	6%	1%
grade 4 events	88	223	140
	2%	5%	2%
grade 5 events	150	441	225
	3%	10%	4%
grade 6 events	86	964	454
	2%	23%	8%
grade 7 events	3265	1541	3814
	84%	37%	71%

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	173.555749	173.5546892781354	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	0.153640	0.1808093970482546	Subarray start row	385	385
[deg] Pointing Roll	61.062104	61.21871582912954	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)	477635933.184000	477634750.52057			
Observation start date	2013-02-19T04:37:46	2013-02-19T04:19:10			
[s] Observation end time (MET)	477638433.184000	477639520.35832			
Observation end date	2013-02-19T05:19:26	2013-02-19T05:38:40			
Read mode	TIMED	TIMED			

2.3 Aspect



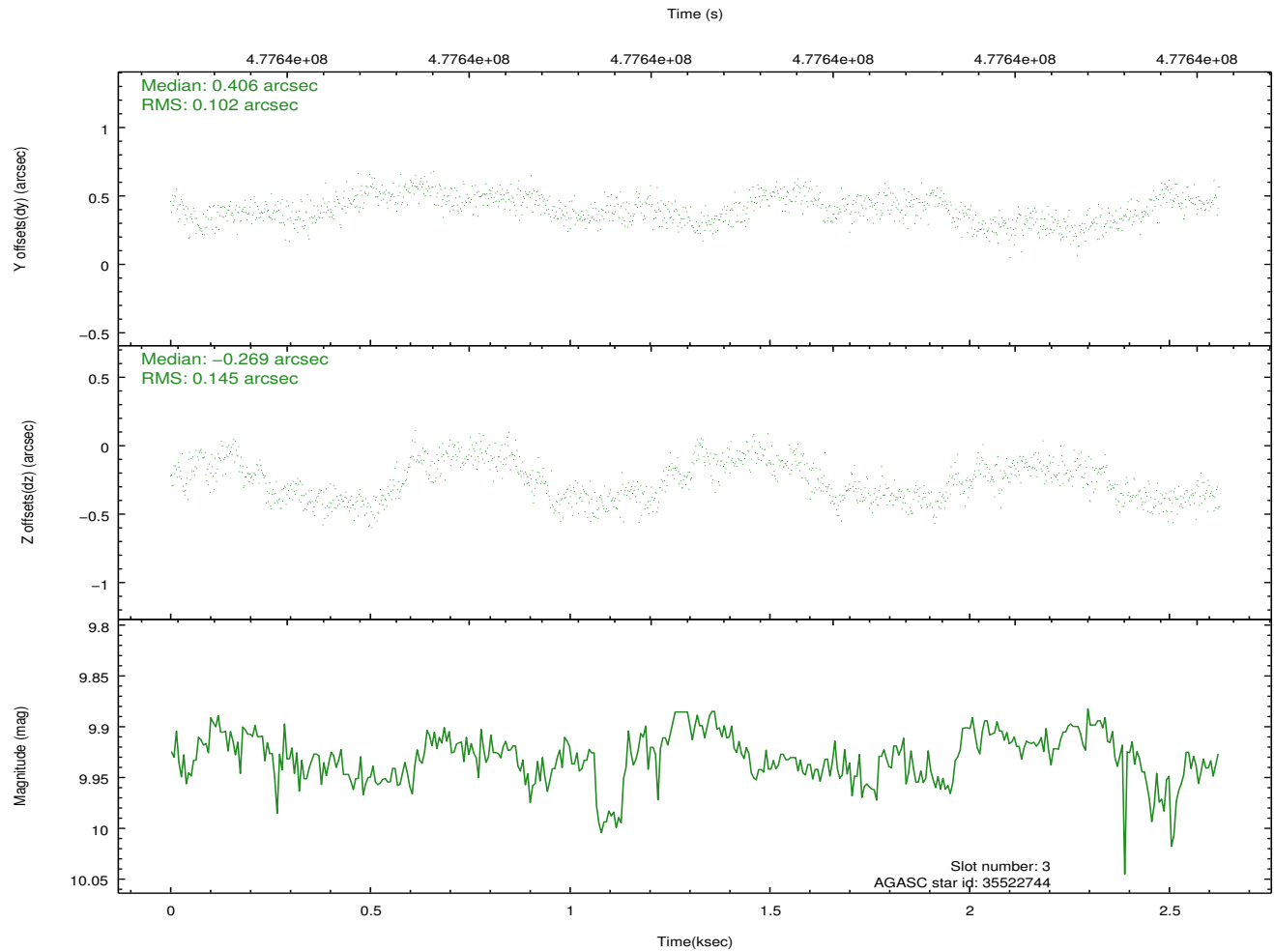
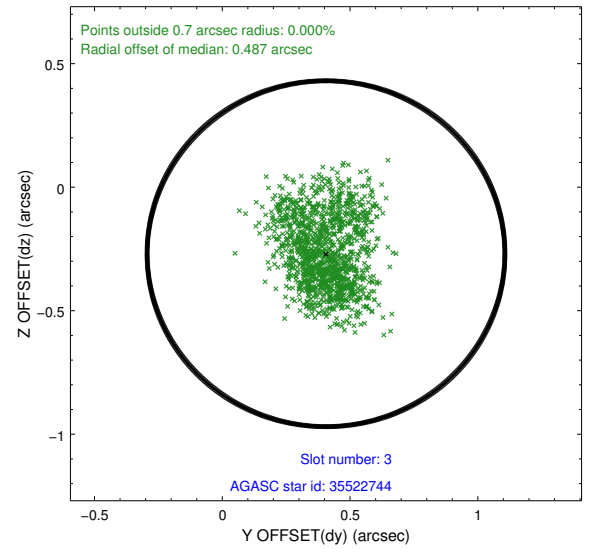
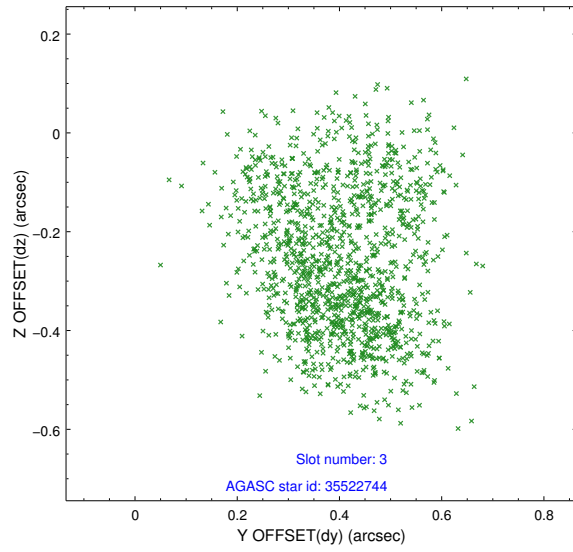


Slot Statistics

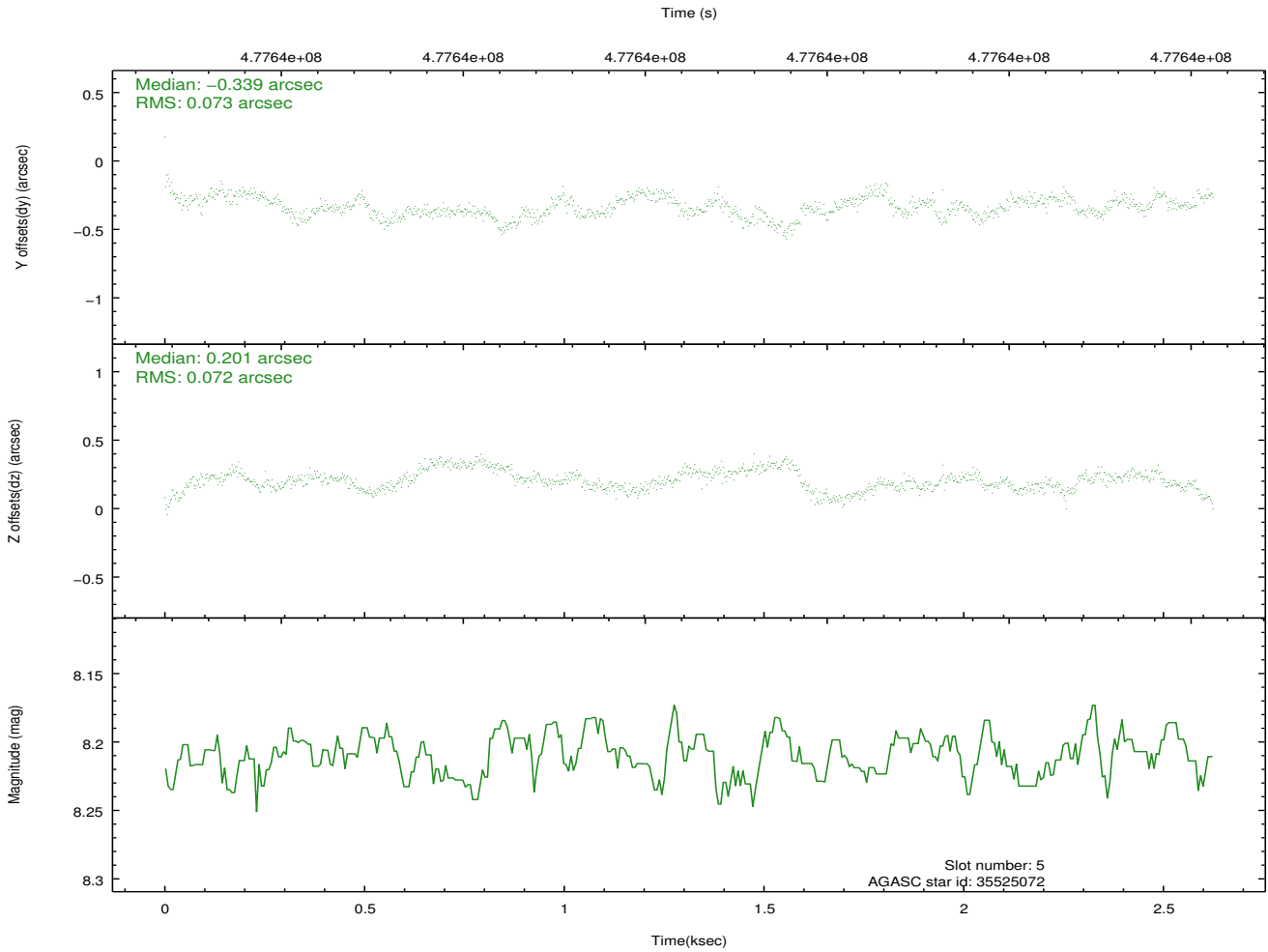
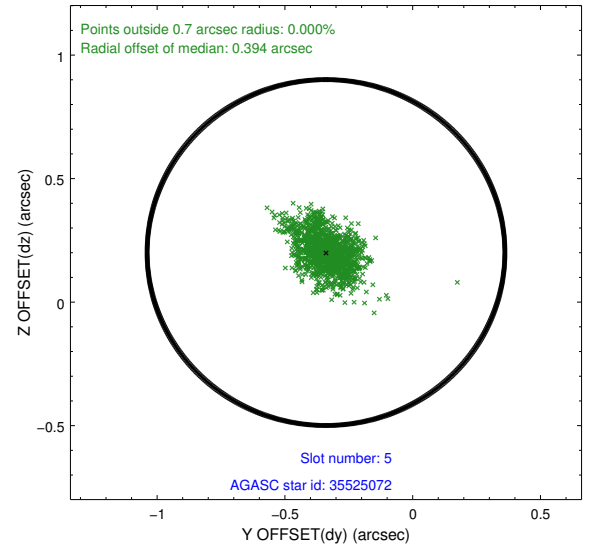
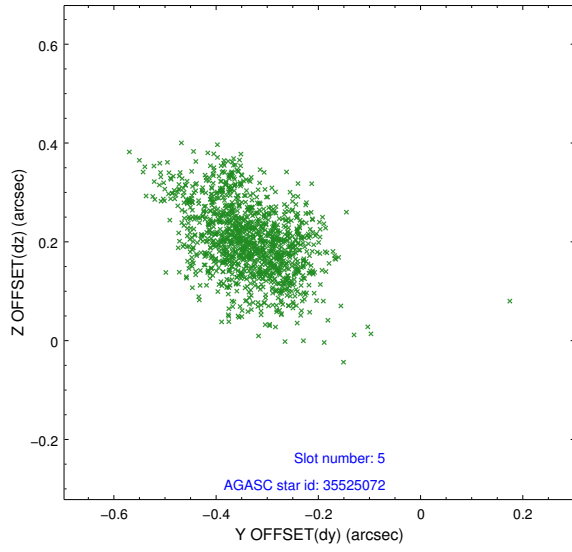
lot	status	used	id	mag	n_pts	med_dy	med_dz	drl	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	6.92	641	-0.133	-0.081	0.005	0.010	0.000000	0.000000	-774.33	-1741.76
1	FID		ACIS-S-4	7.01	641	0.169	0.066	0.006	0.011	0.000000	0.000000	2138.16	164.23
2	FID		ACIS-S-6	7.14	641	-0.063	0.022	0.006	0.011	0.000000	0.000000	390.93	804.42
3	GUIDE	used	35522744	9.93	1281	0.406	-0.269	0.194	0.293	172.979721	0.006814	-1465.42	1559.44
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	35525072	8.21	1280	-0.339	0.201	0.111	0.173	174.085218	0.597078	2318.88	-893.68
6	GUIDE	used	646187728	10.12	1280	0.227	0.298	0.230	0.358	173.613612	-0.474684	-1875.69	-1277.27
7	BAD	used	646186832	10.41	1176	-0.315	-0.249	0.269	0.423	173.393497	-0.321635	-1780.48	-317.20

2.4 Star Slots

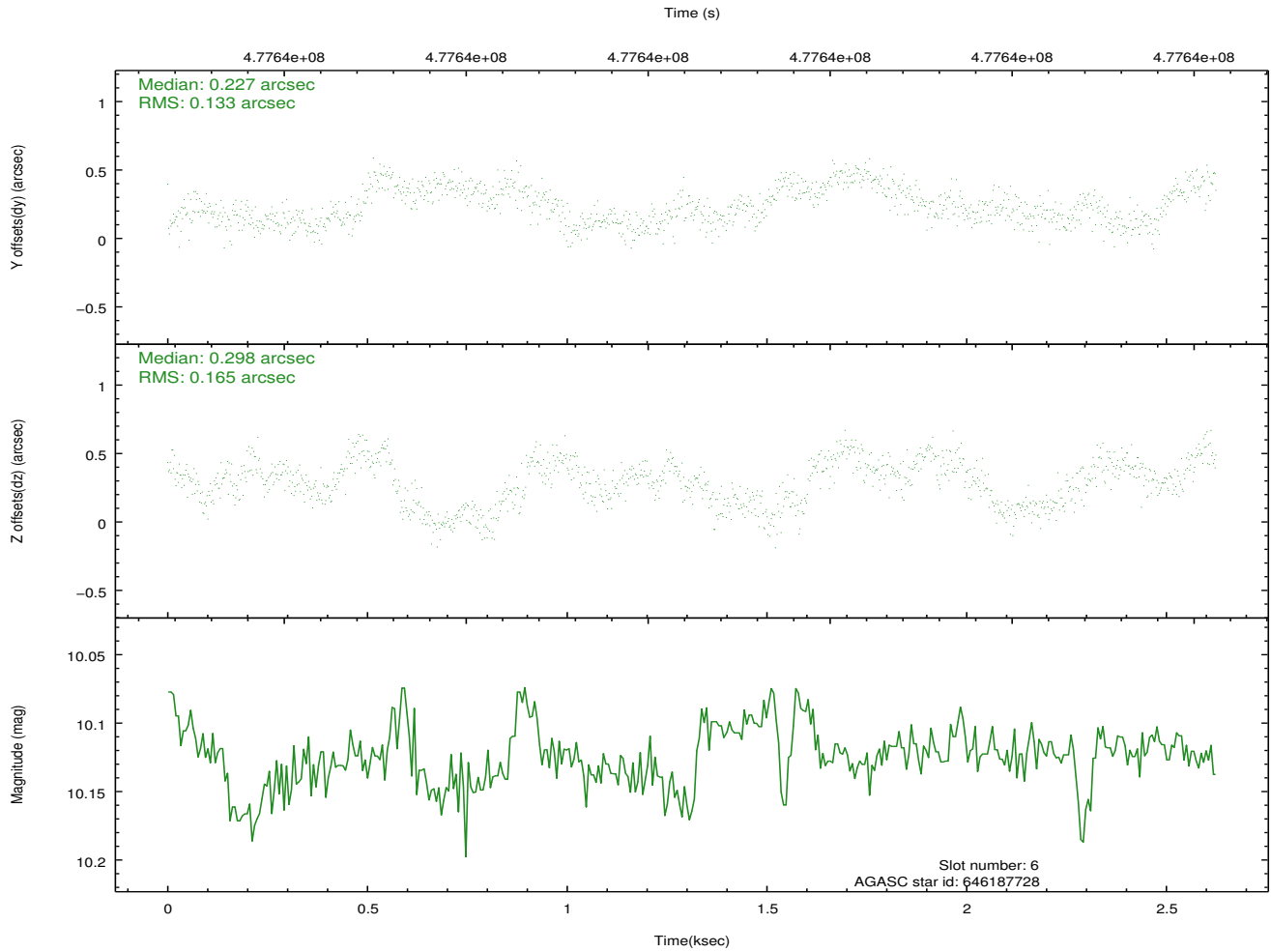
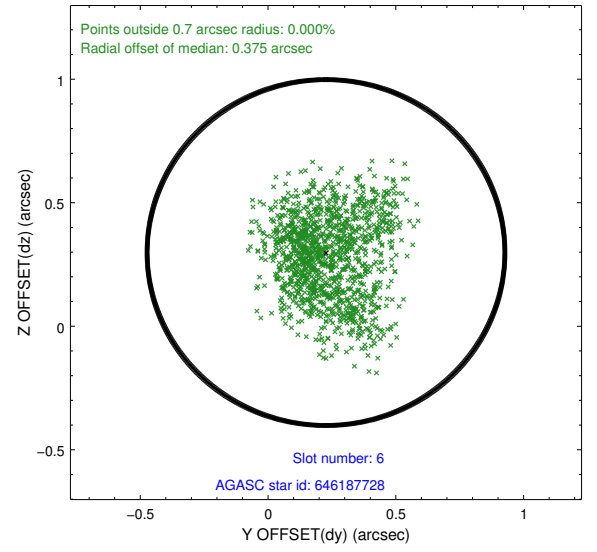
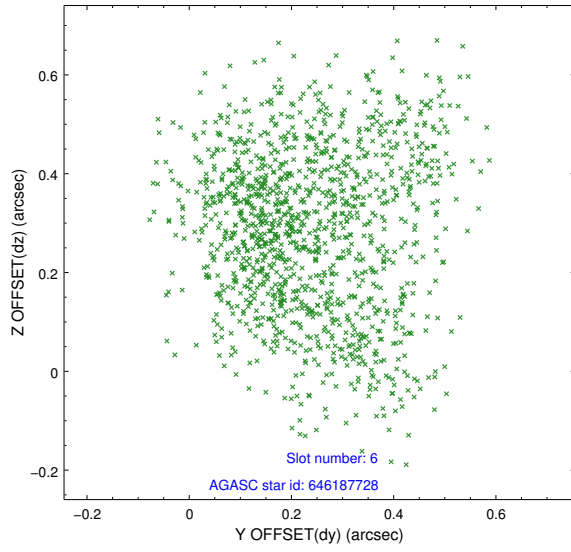
2.4.1 Slot 3



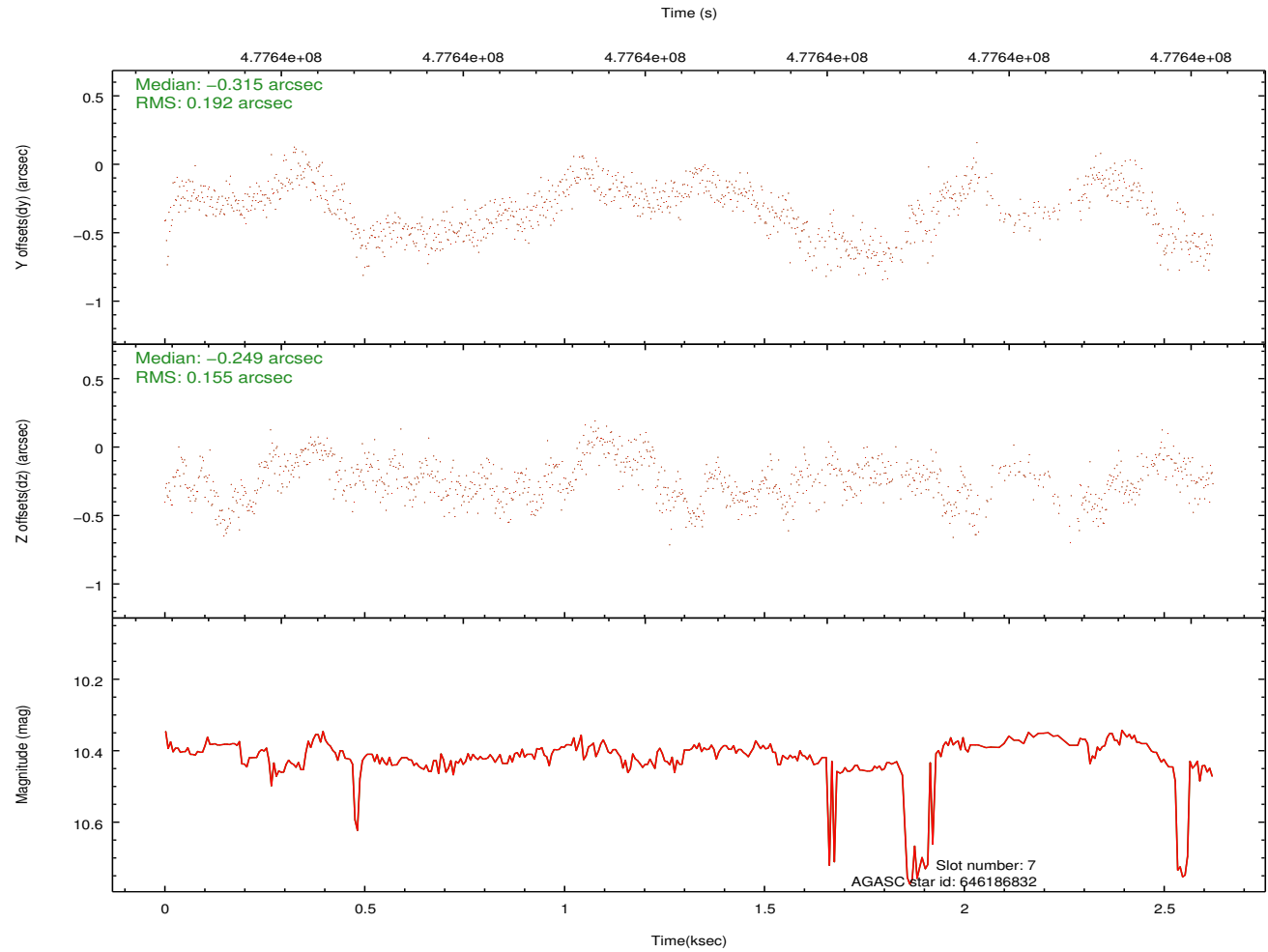
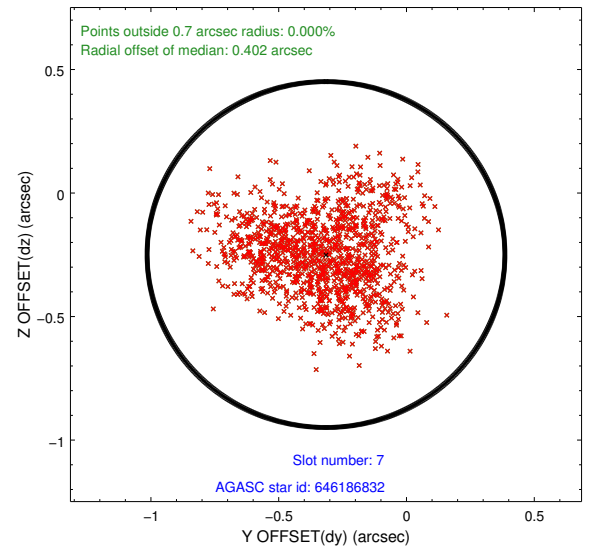
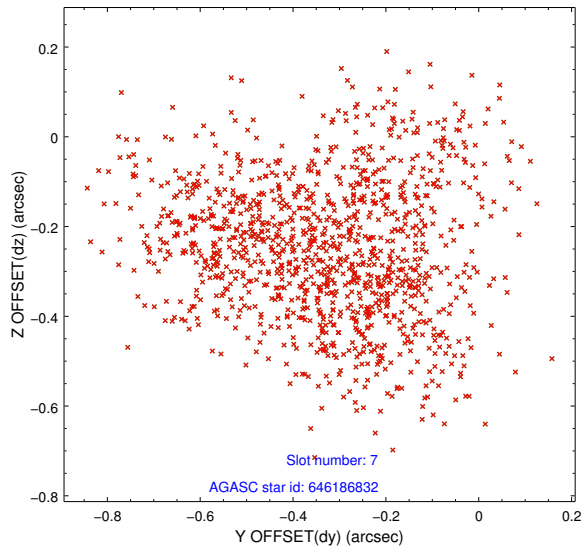
2.4.2 Slot 5



2.4.3 Slot 6

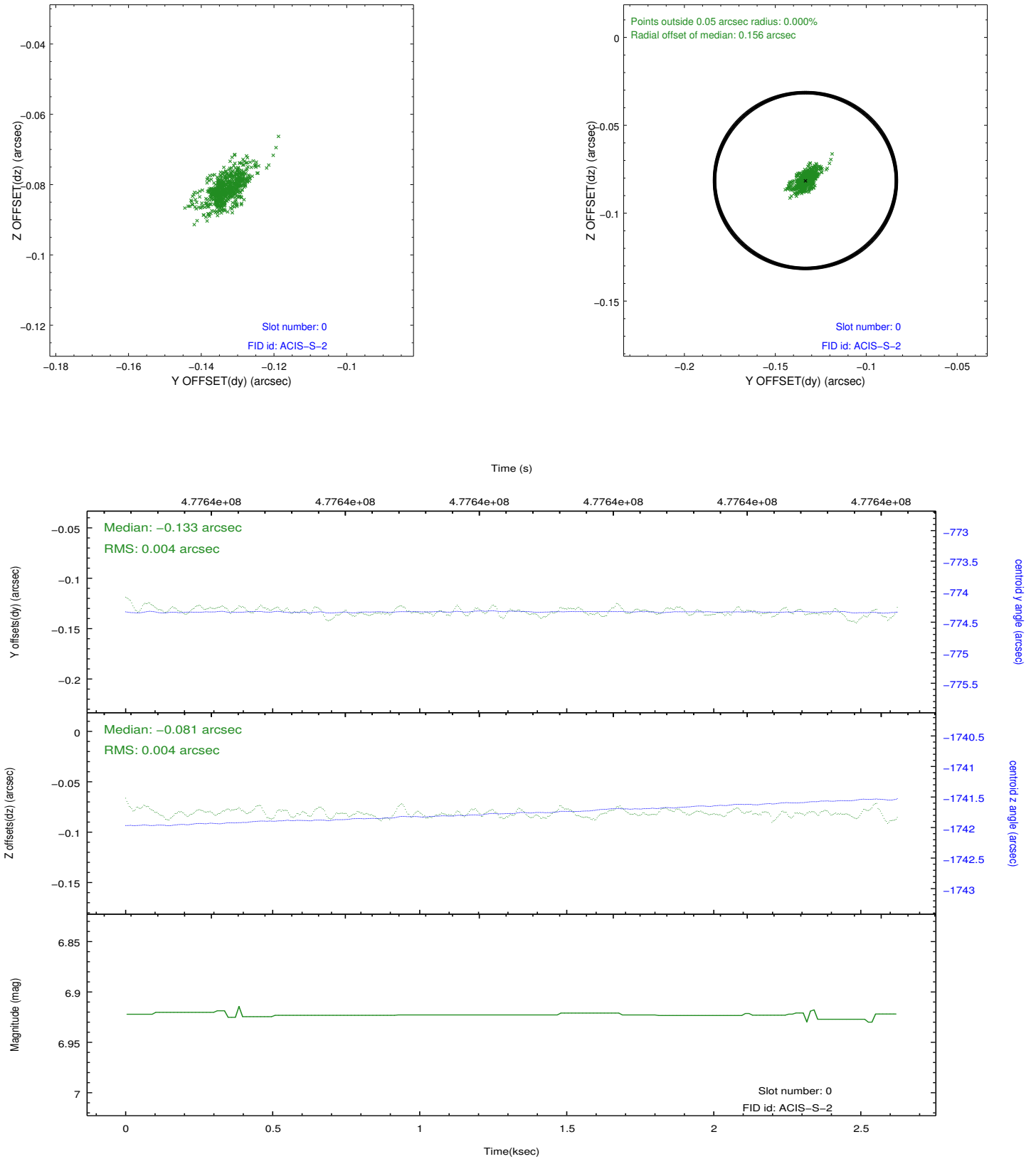


2.4.4 Slot 7

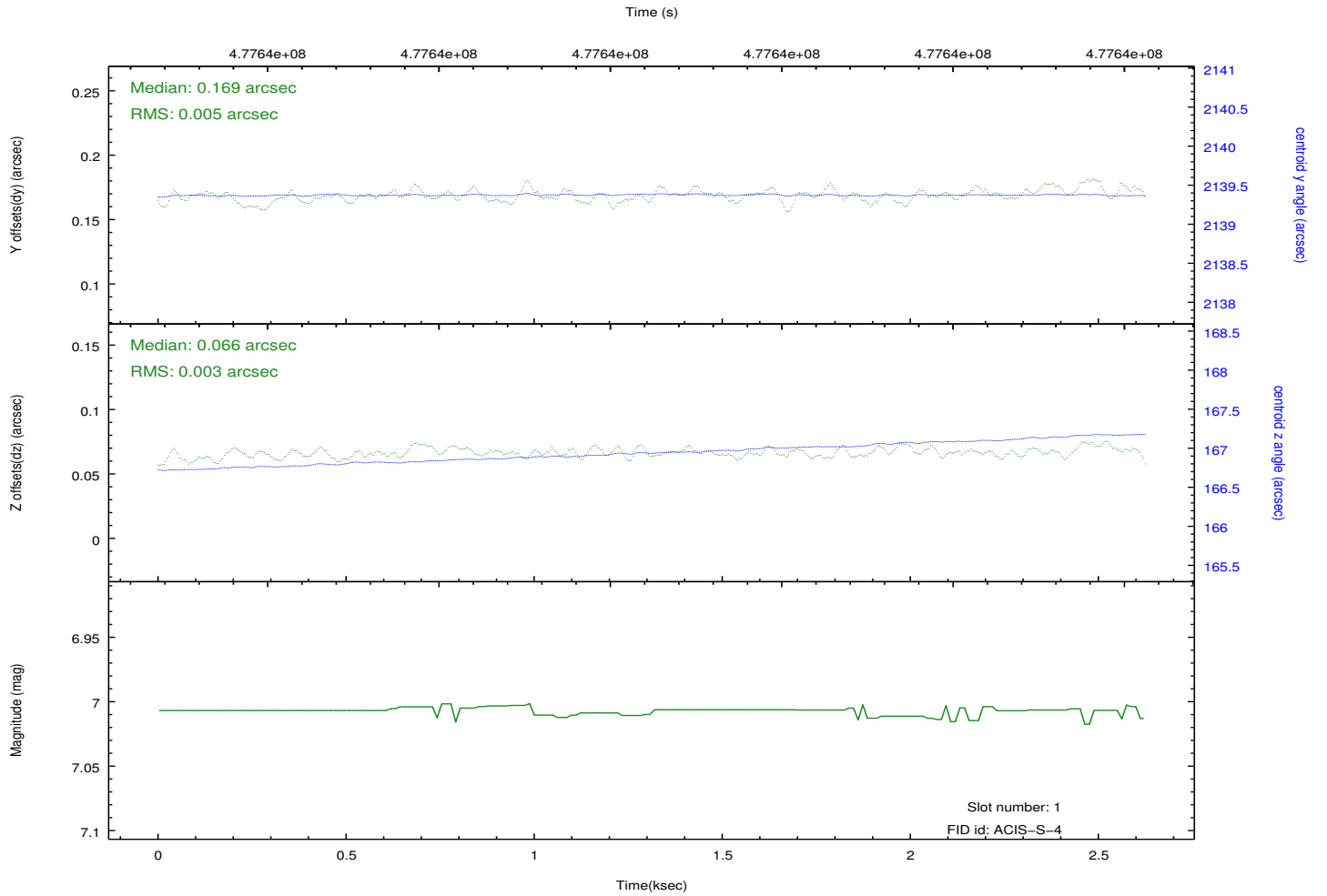
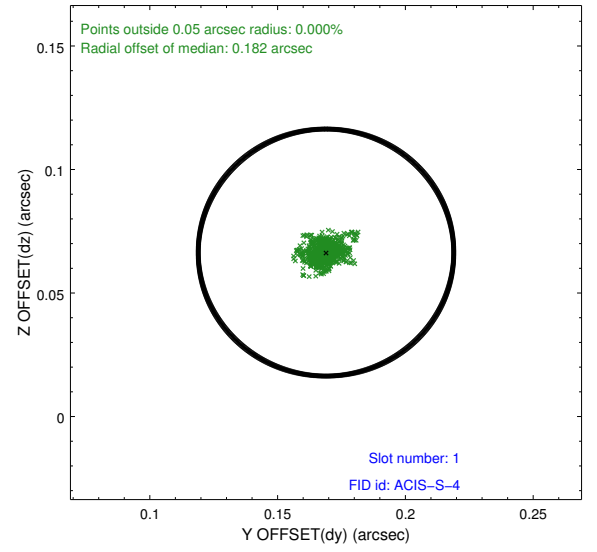
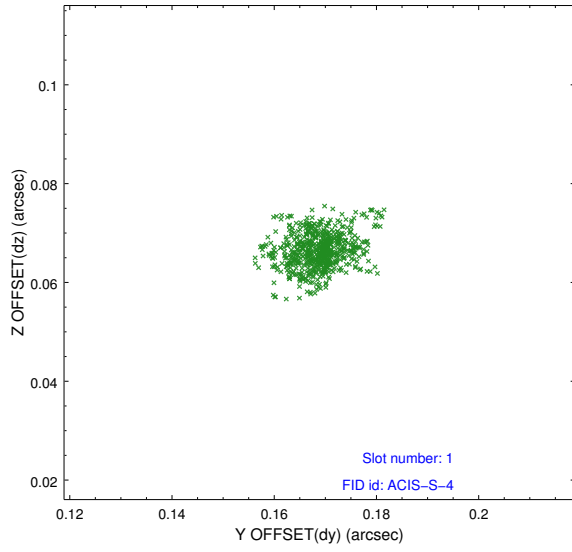


2.5 FID Slots

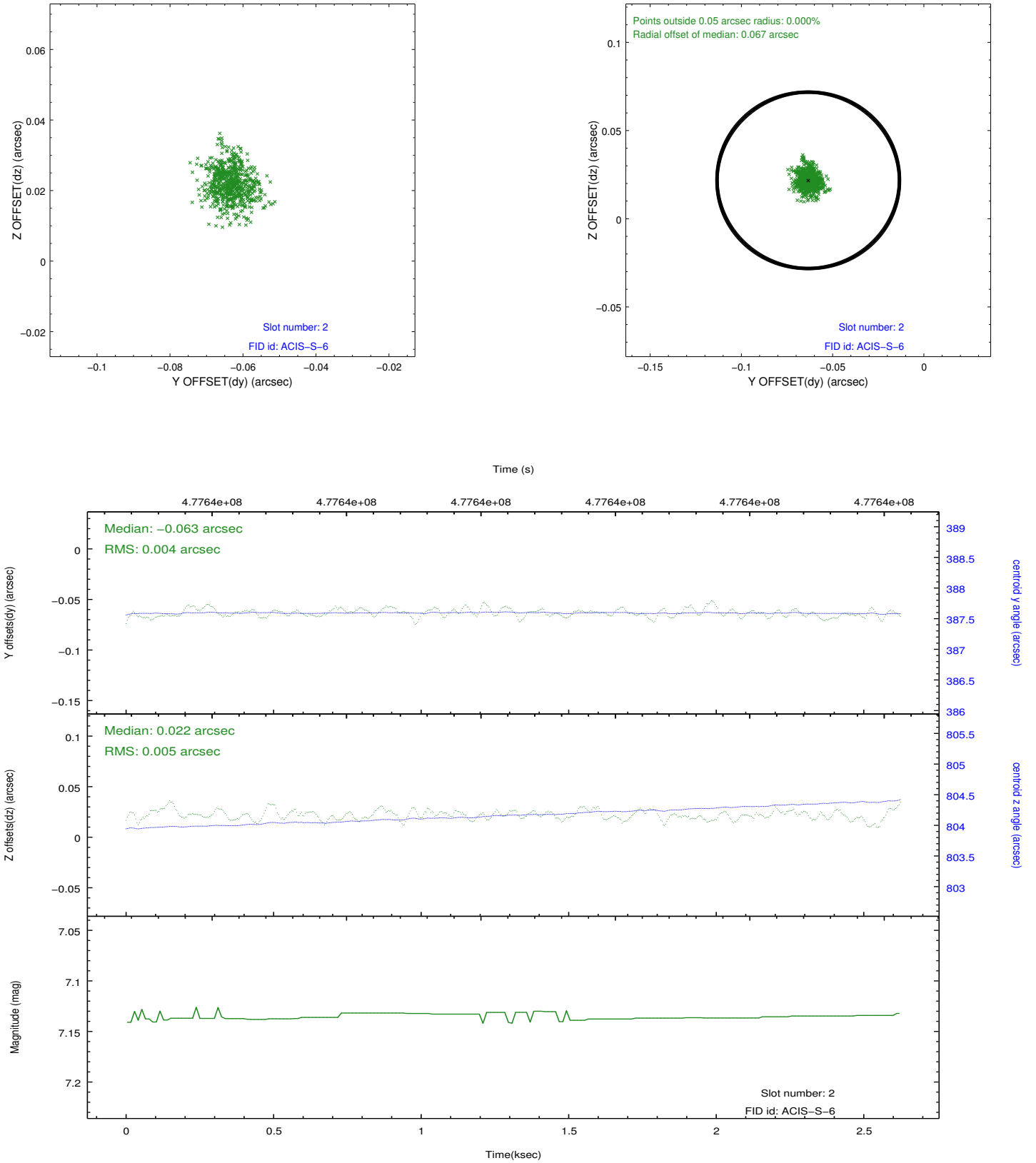
2.5.1 Slot 0



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

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.

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.