

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15355 - L2 Version 2
Chandra X-Ray Center

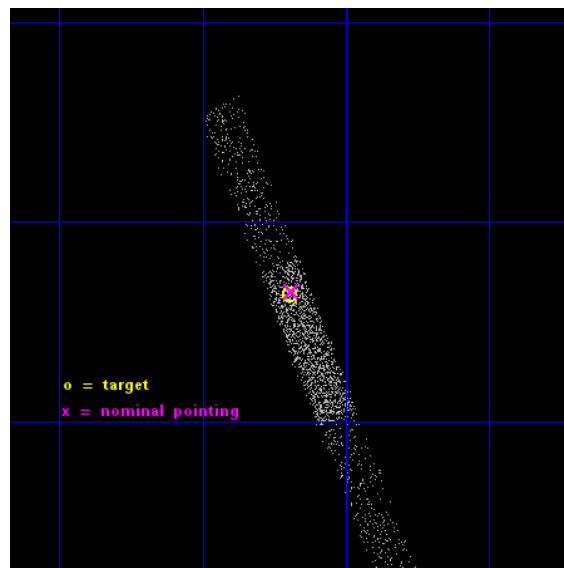
L2 Processing Date : Nov 30 2014

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1 Front

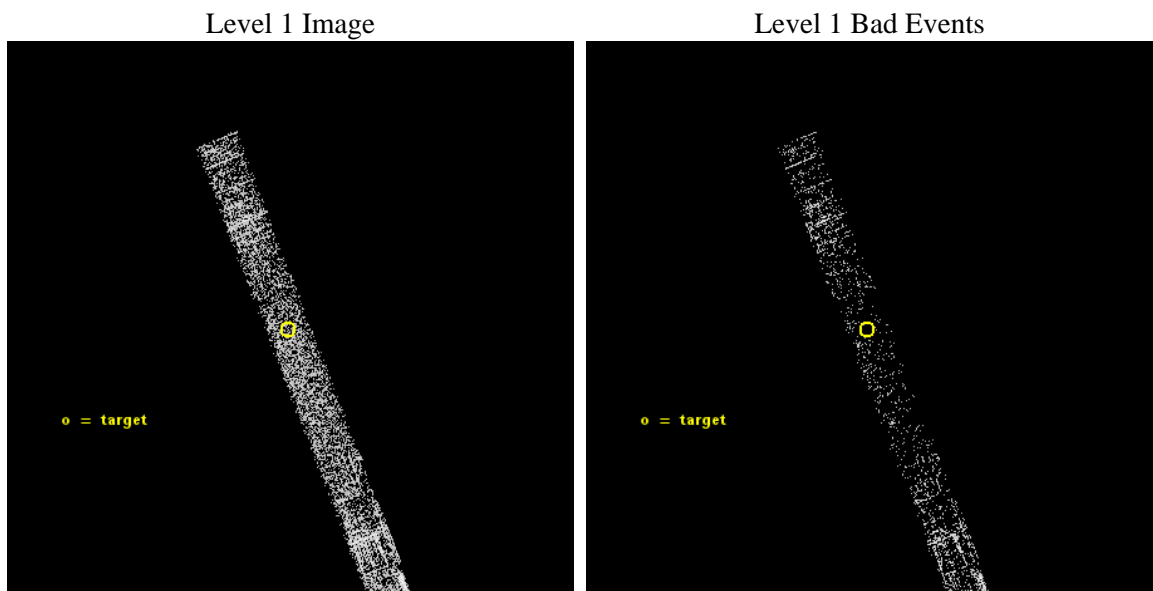
seq_num	702915	Sequence number
obs_id	15355	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1447-0203	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	221.924167	Observer's specified target RA [deg]
dec_targ	-2.060861	Observer's specified target Dec [deg]
ra_nom	221.92242882473	Nominal RA [deg]
dec_nom	-2.0582660479718	Nominal Dec [deg]
roll_nom	68.298405331814	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2093.0987637639	Sum of GTIs [s]
livetime	2001.8159561629	Livetime [s]
ontime6	2093.0577237606	Sum of GTIs [s]
ontime7	2093.0987637639	Sum of GTIs [s]
ontime8	2093.0166837573	Sum of GTIs [s]
l2events	2256	Number of level 2 events



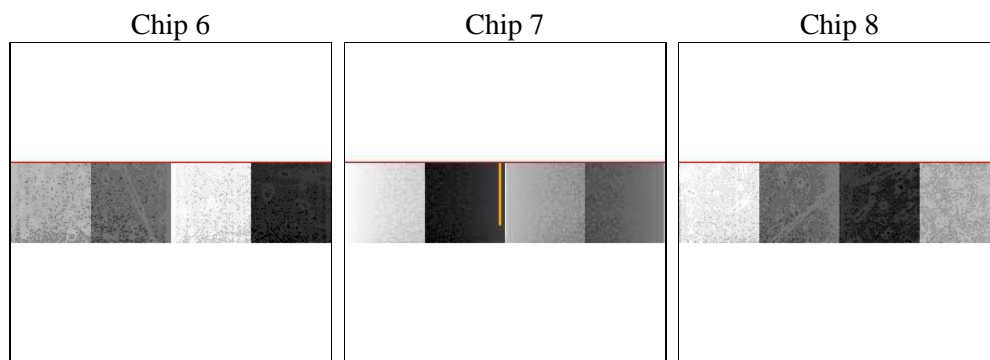
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2093.0987637639	Sum of GTIs [s]
caldbver	4.6.4	 	ontime6	2093.0577237606	Sum of GTIs [s]
date	2014-12-01T06:56:28	Date and time of file creation	ontime7	2093.0987637639	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	2093.0166837573	Sum of GTIs [s]
			l1events	11807	Number of level 1 events

2.1.4 Events

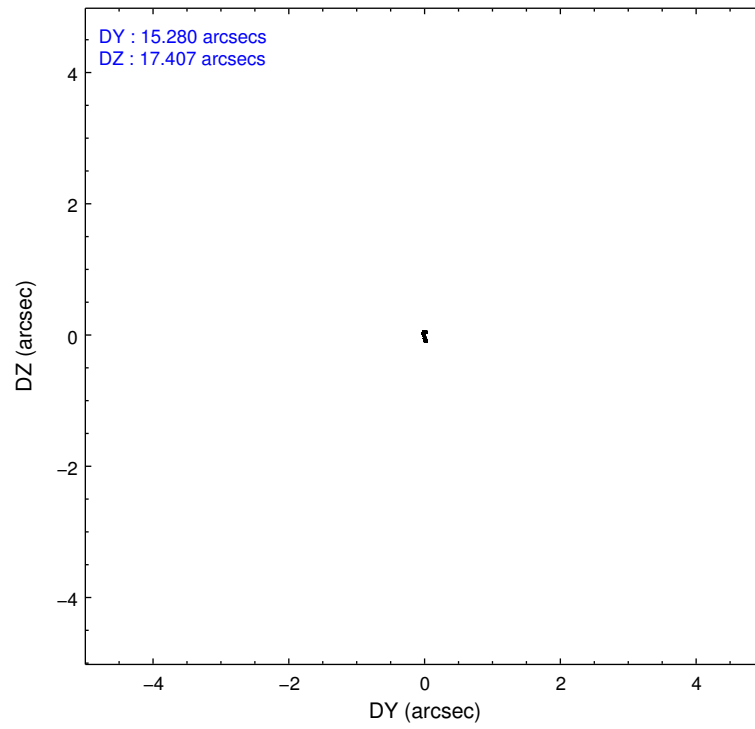
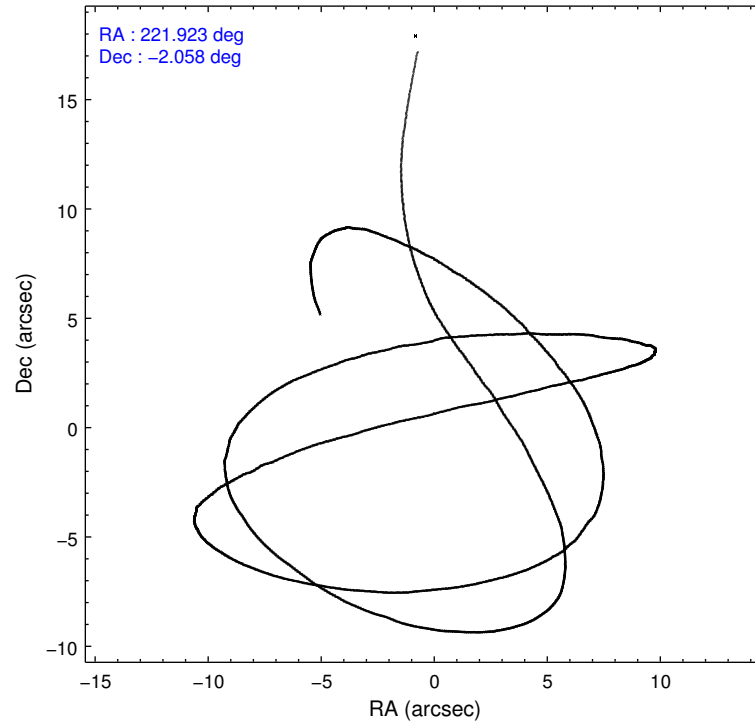
	ccd 6	ccd 7	ccd 8
level 1 events	3402	3370	5035
rejected events	2979	1686	3916
rejected %	87%	50%	77%

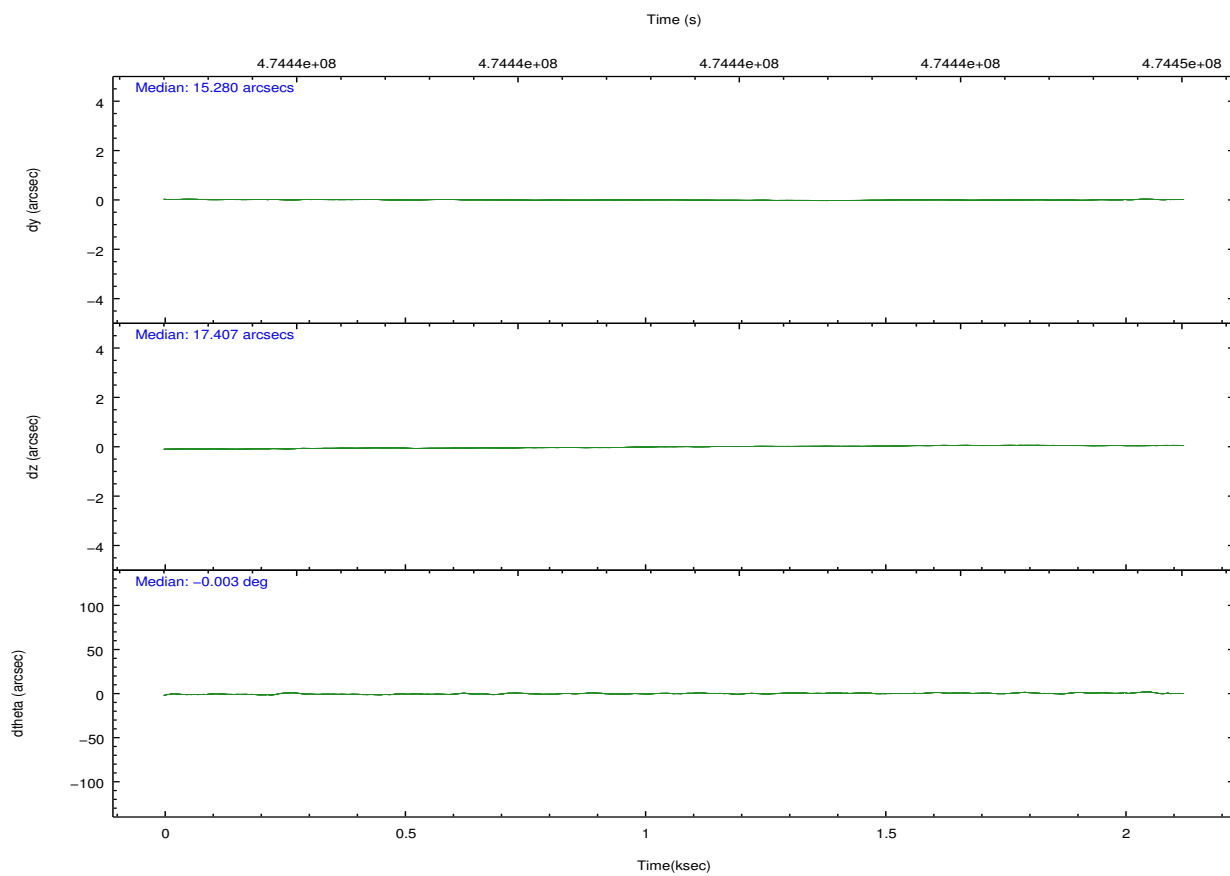
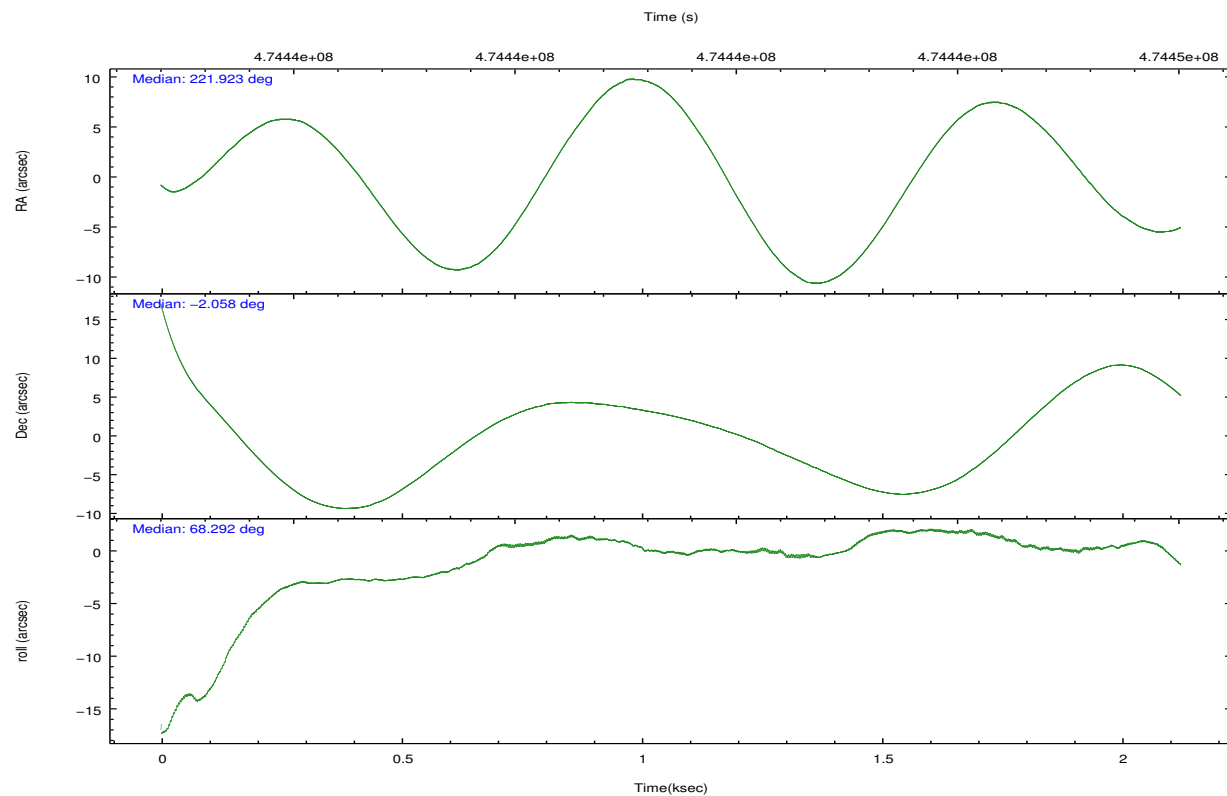
	ccd 6	ccd 7	ccd 8
grade 0 events	140	192	213
	4%	5%	4%
grade 1 events	0	7	1
	0%	0%	0%
grade 2 events	75	353	312
	2%	10%	6%
grade 3 events	58	179	124
	1%	5%	2%
grade 4 events	74	204	92
	2%	6%	1%
grade 5 events	121	358	192
	3%	10%	3%
grade 6 events	76	758	379
	2%	22%	7%
grade 7 events	2858	1319	3722
	84%	39%	73%

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	221.926707	221.9224288247287	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-2.085405	-2.058266047971786	Subarray start row	385	385
[deg] Pointing Roll	68.141963	68.29840533181429	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	474443415.184000	474442069.58573			
Observation start date	2013-01-13T05:49:08	2013-01-13T05:27:49			
[s] Observation end time (MET)	474445415.184000	474446295.66096			
Observation end date	2013-01-13T06:22:28	2013-01-13T06:38:15			
Read mode	TIMED	TIMED			

2.3 Aspect



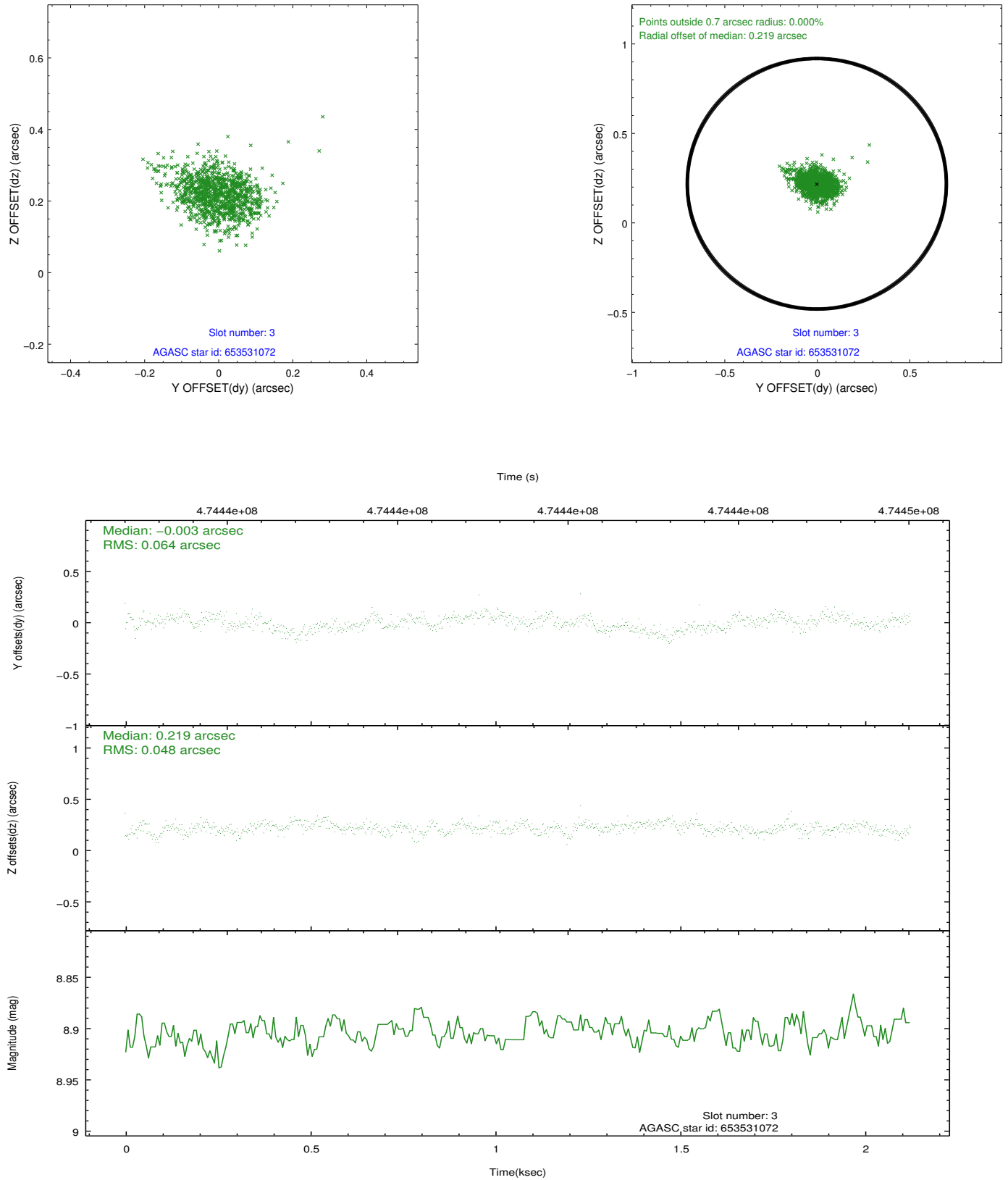


Slot Statistics

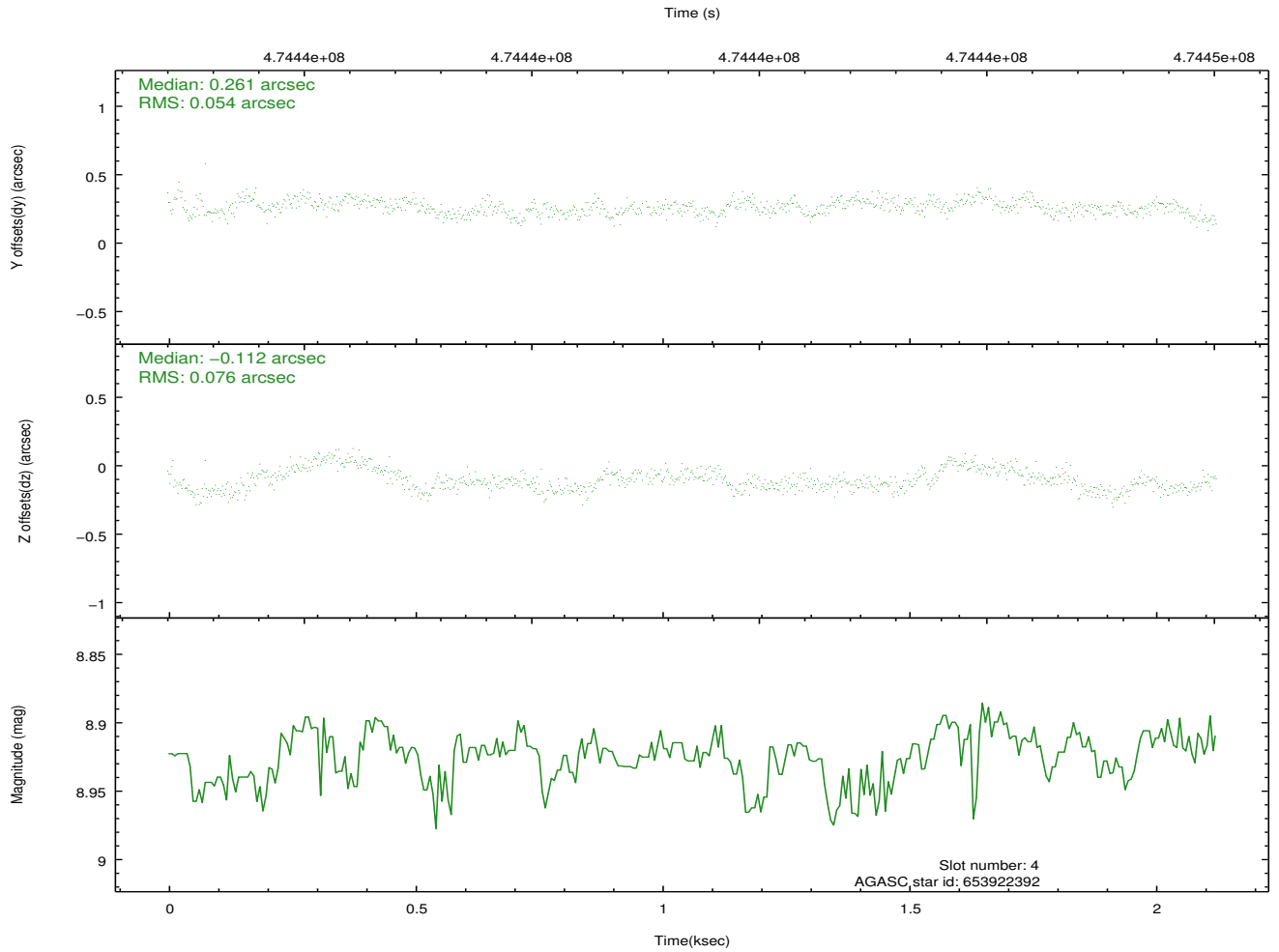
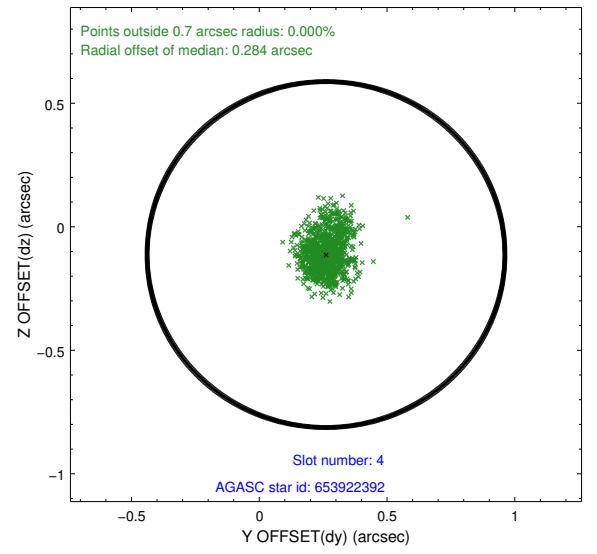
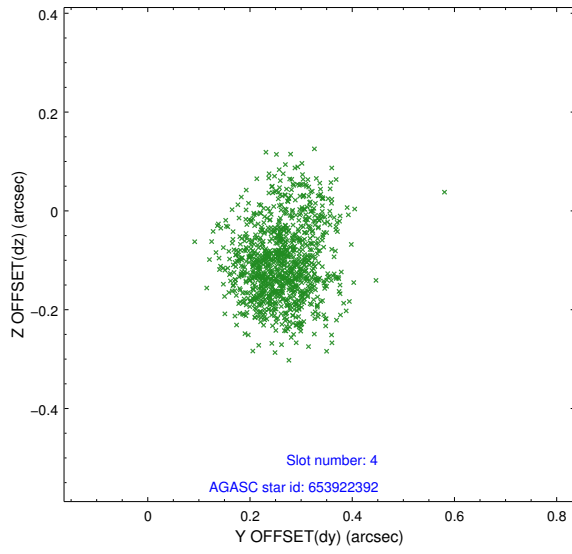
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	519	-0.081	-0.015	0.007	0.012	0.000000	0.000000	-768.38	-1738.84
1	FID		ACIS-S-4	7.02	518	0.184	0.043	0.006	0.010	0.000000	0.000000	2143.79	166.44
2	FID		ACIS-S-5	7.04	519	-0.135	-0.019	0.007	0.013	0.000000	0.000000	-1817.30	163.64
3	GUIDE	used	653531072	8.90	1037	-0.003	0.219	0.083	0.140	222.285788	-1.689109	1803.69	-667.61
4	GUIDE	used	653922392	8.92	1034	0.261	-0.112	0.097	0.166	221.226596	-2.285509	-1605.27	2068.04
5	GUIDE	used	654055416	9.60	1021	0.055	0.554	0.129	0.212	222.357051	-2.010291	825.63	-1333.62
6	GUIDE	used	653528032	8.35	1036	-0.192	-0.363	0.068	0.105	221.612728	-1.446923	1712.39	1903.16
7	GUIDE	used	653530832	8.88	1033	-0.109	-0.288	0.119	0.200	221.638203	-1.472740	1661.38	1786.65

2.4 Star Slots

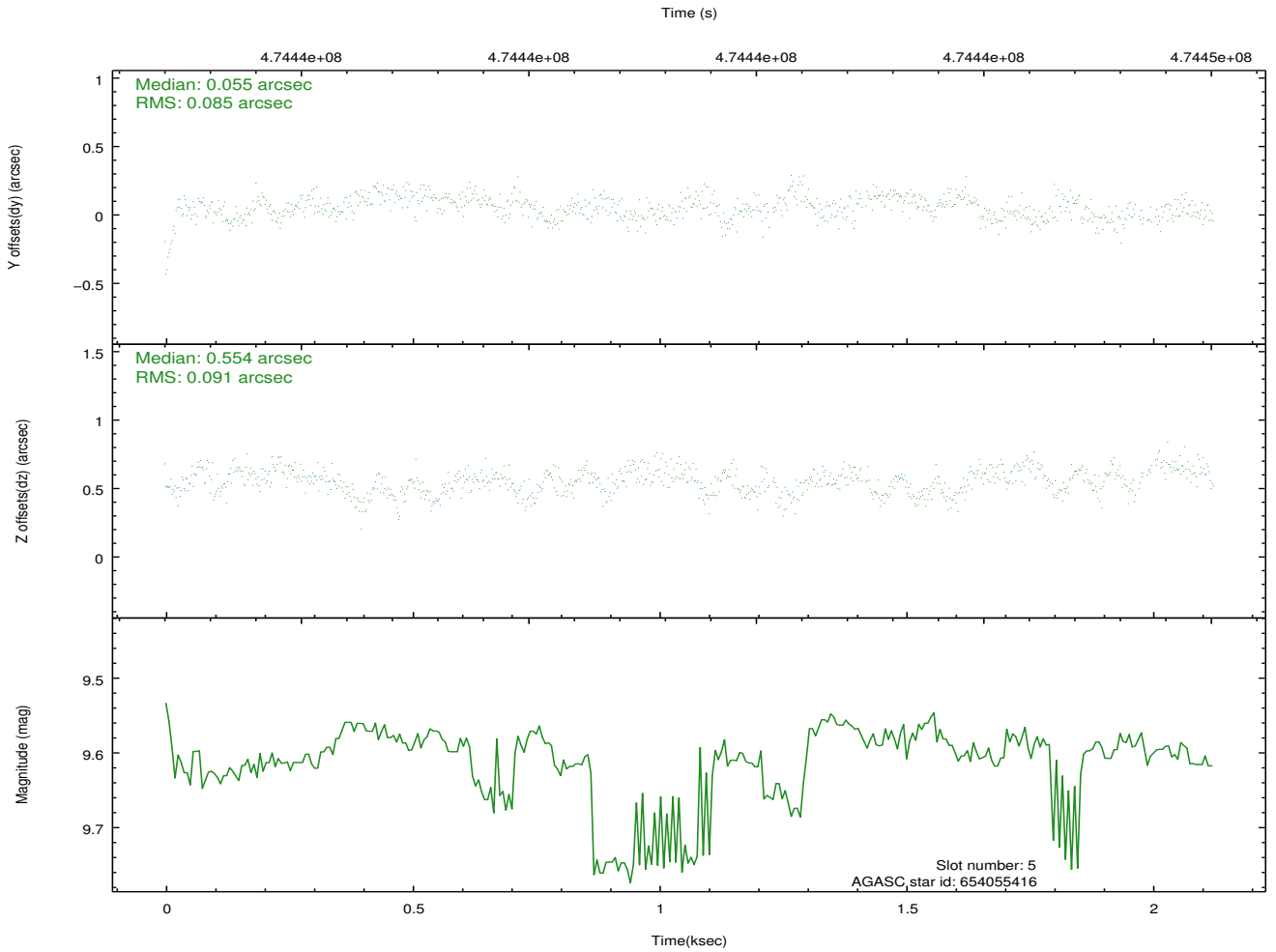
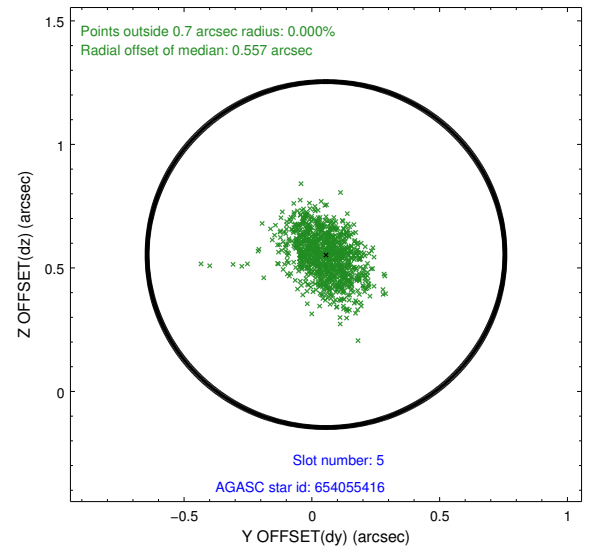
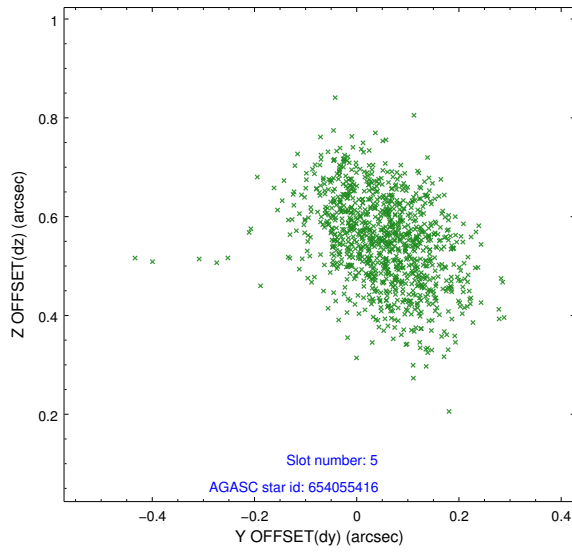
2.4.1 Slot 3



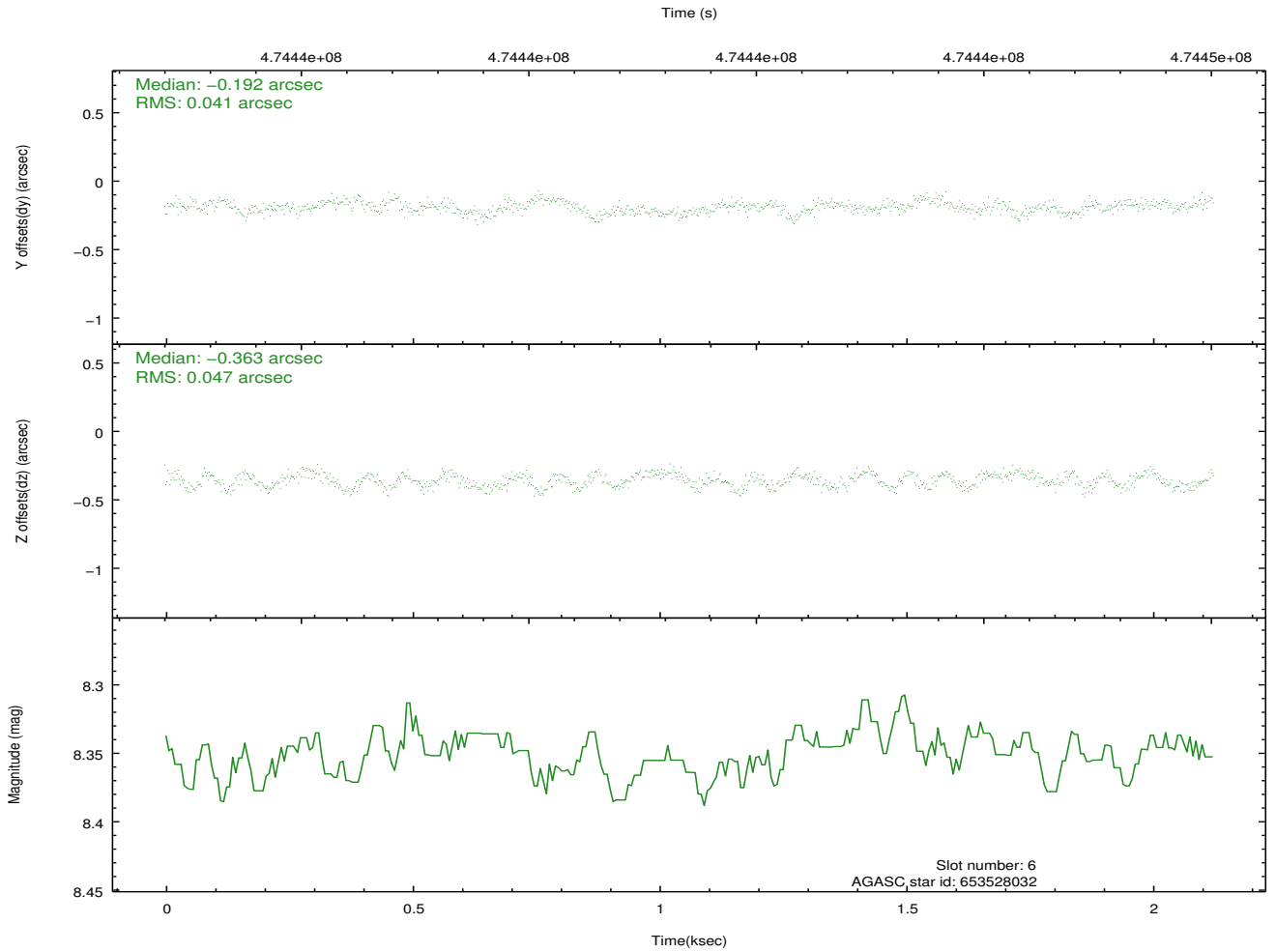
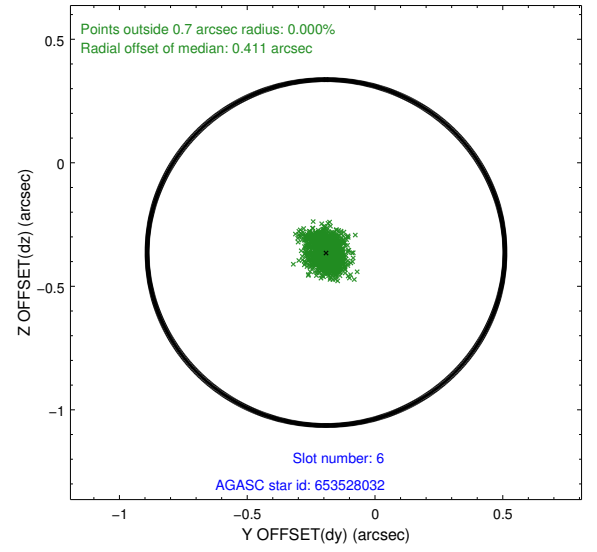
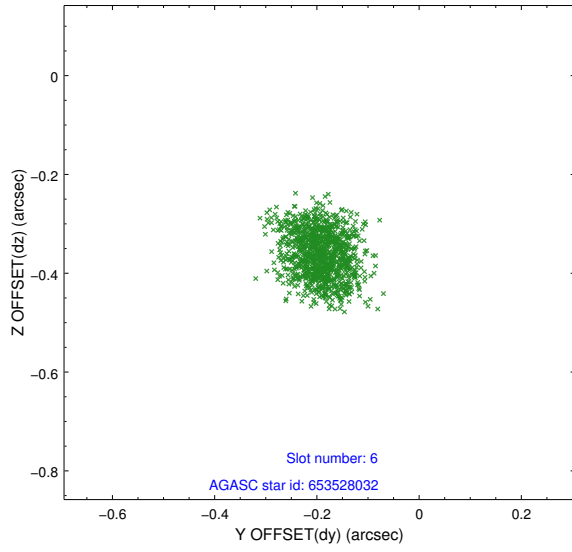
2.4.2 Slot 4



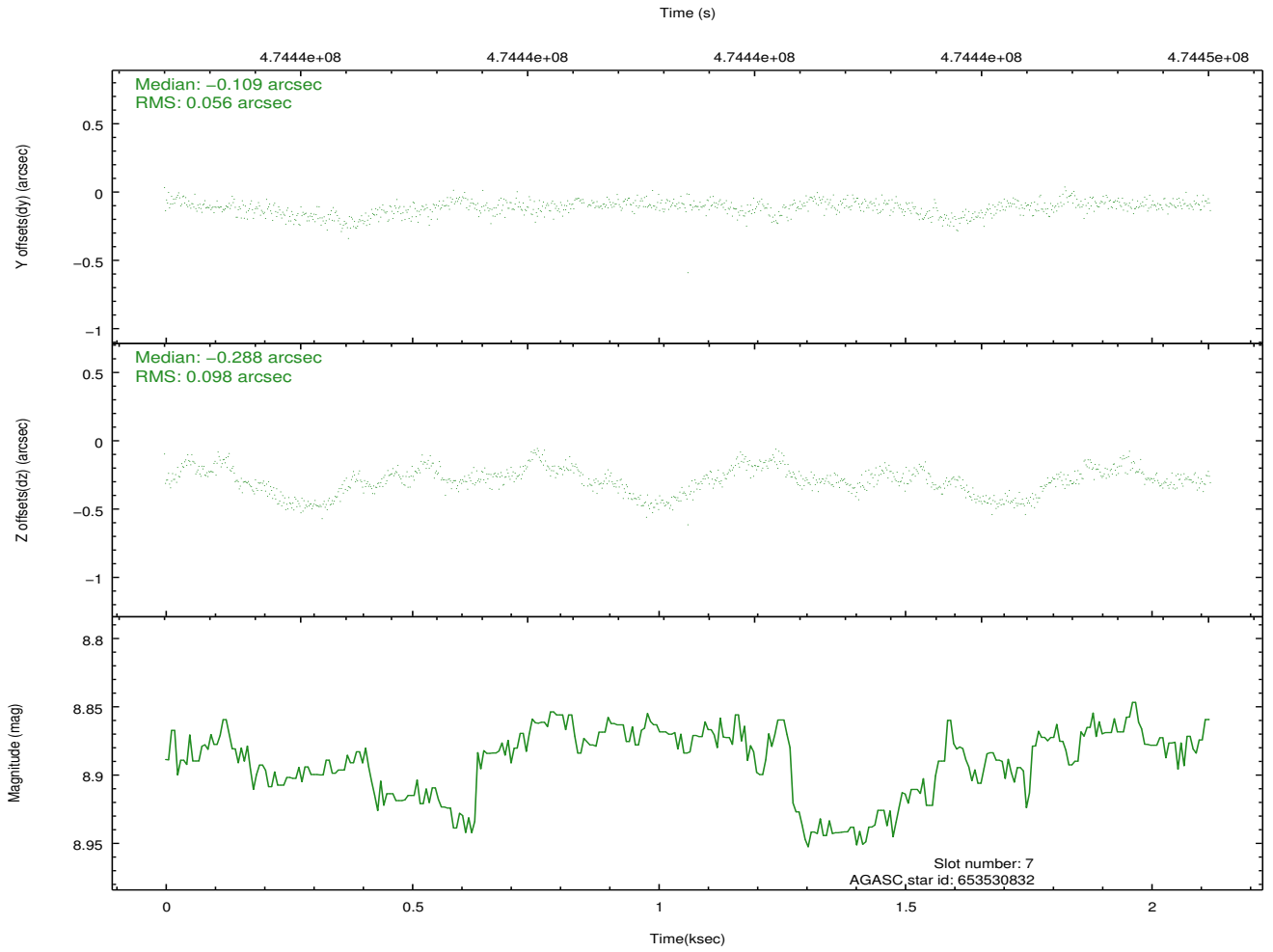
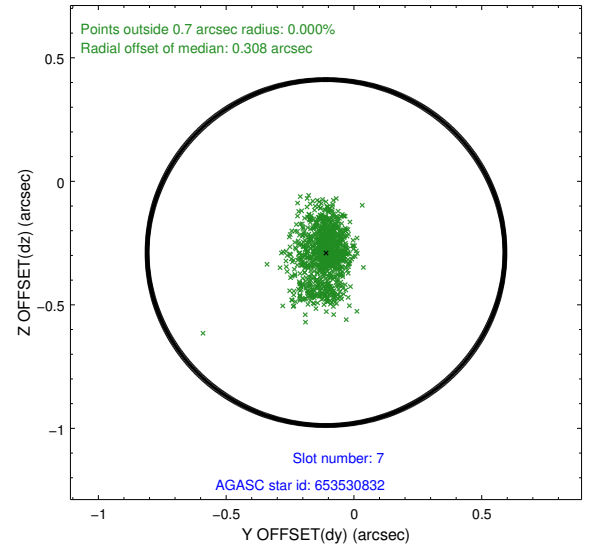
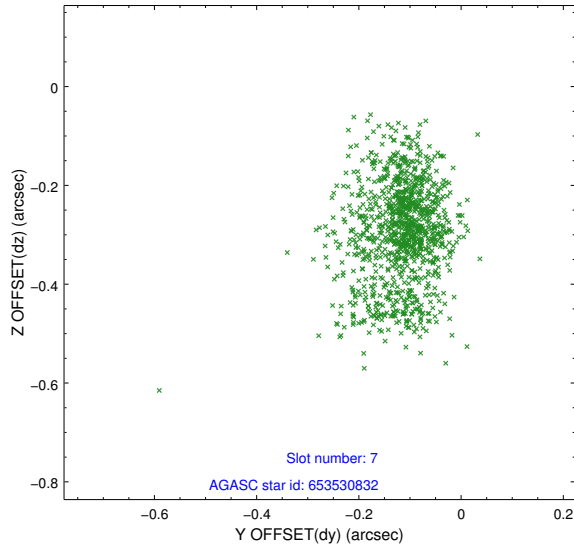
2.4.3 Slot 5



2.4.4 Slot 6

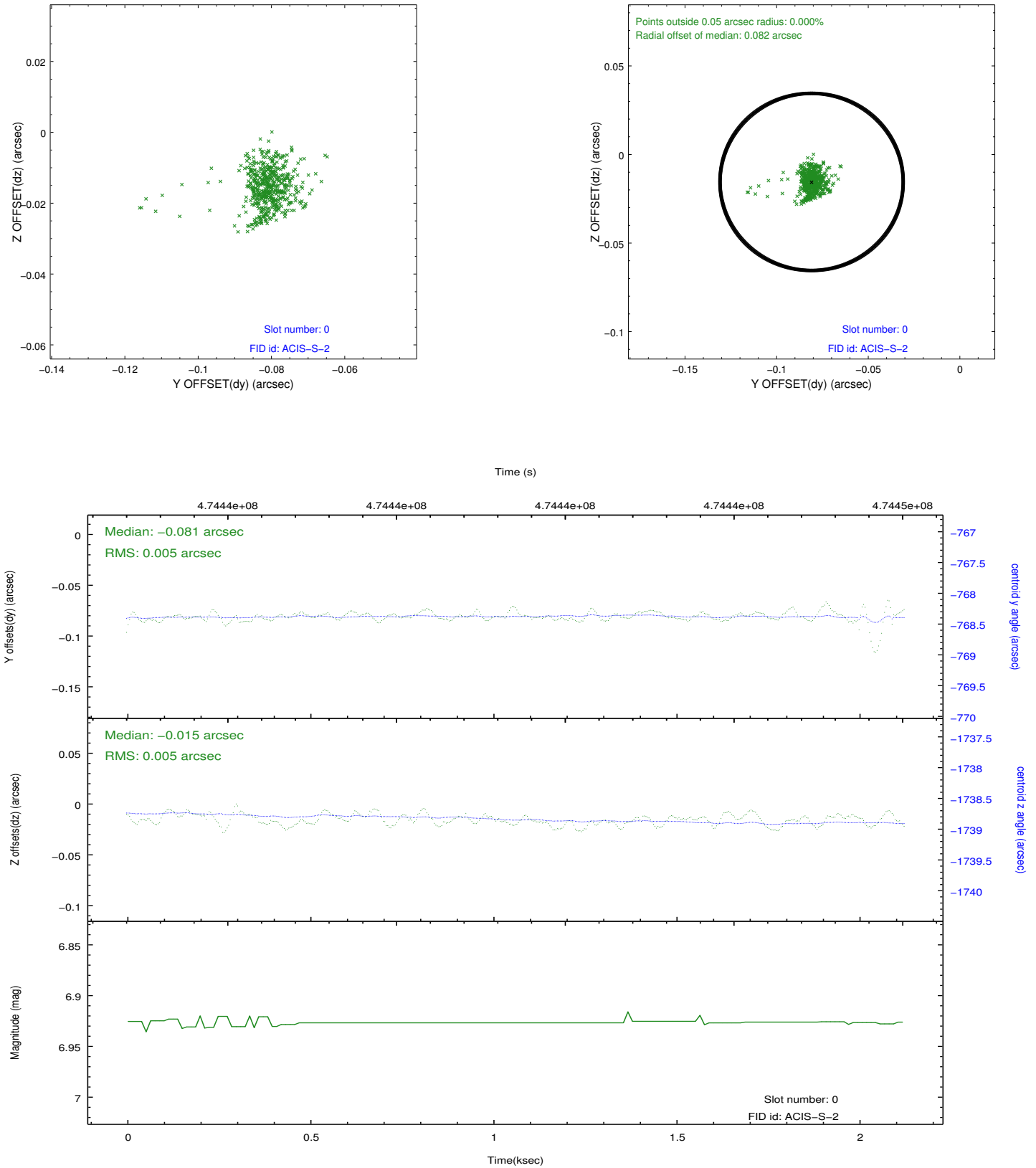


2.4.5 Slot 7

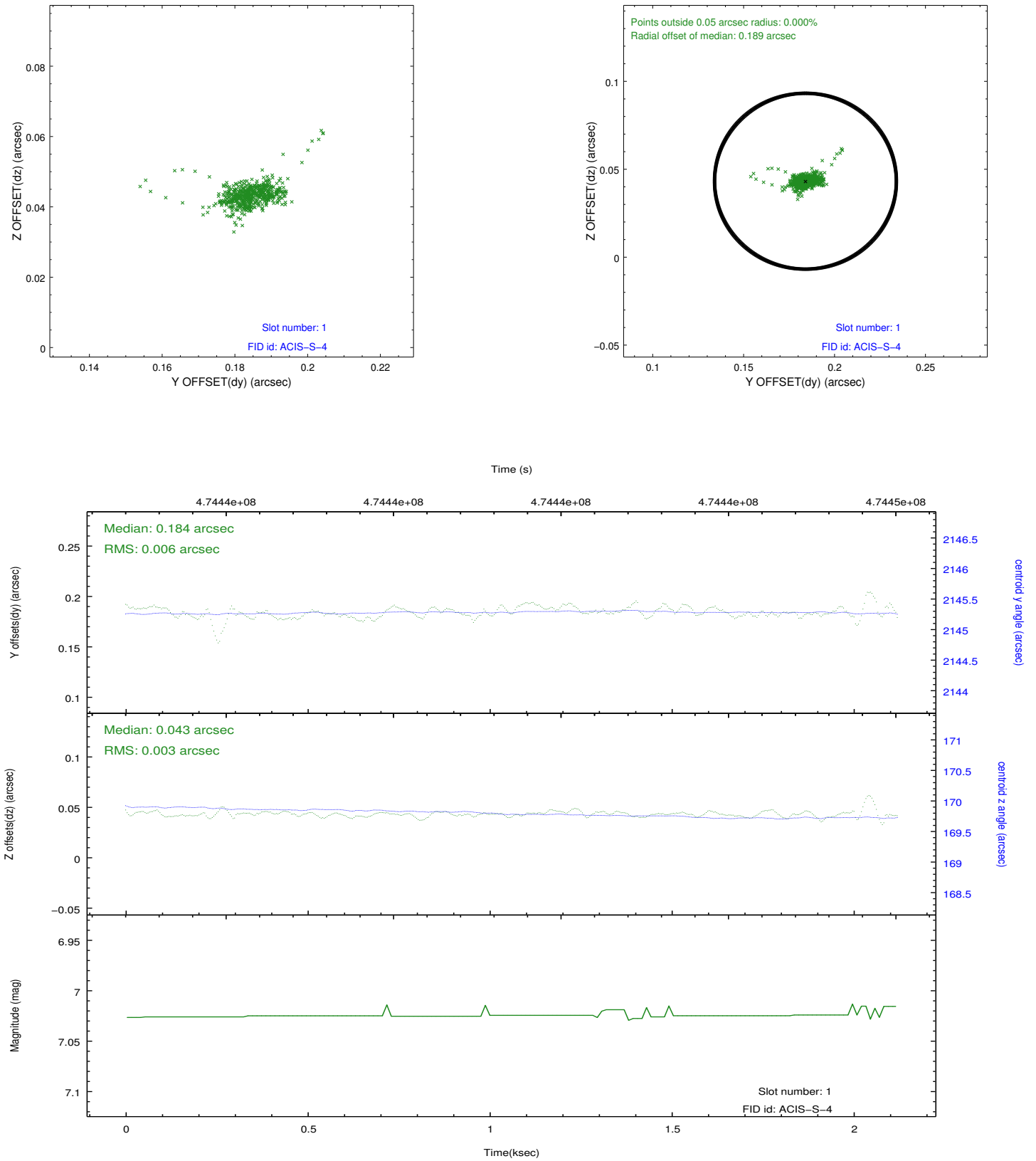


2.5 FID Slots

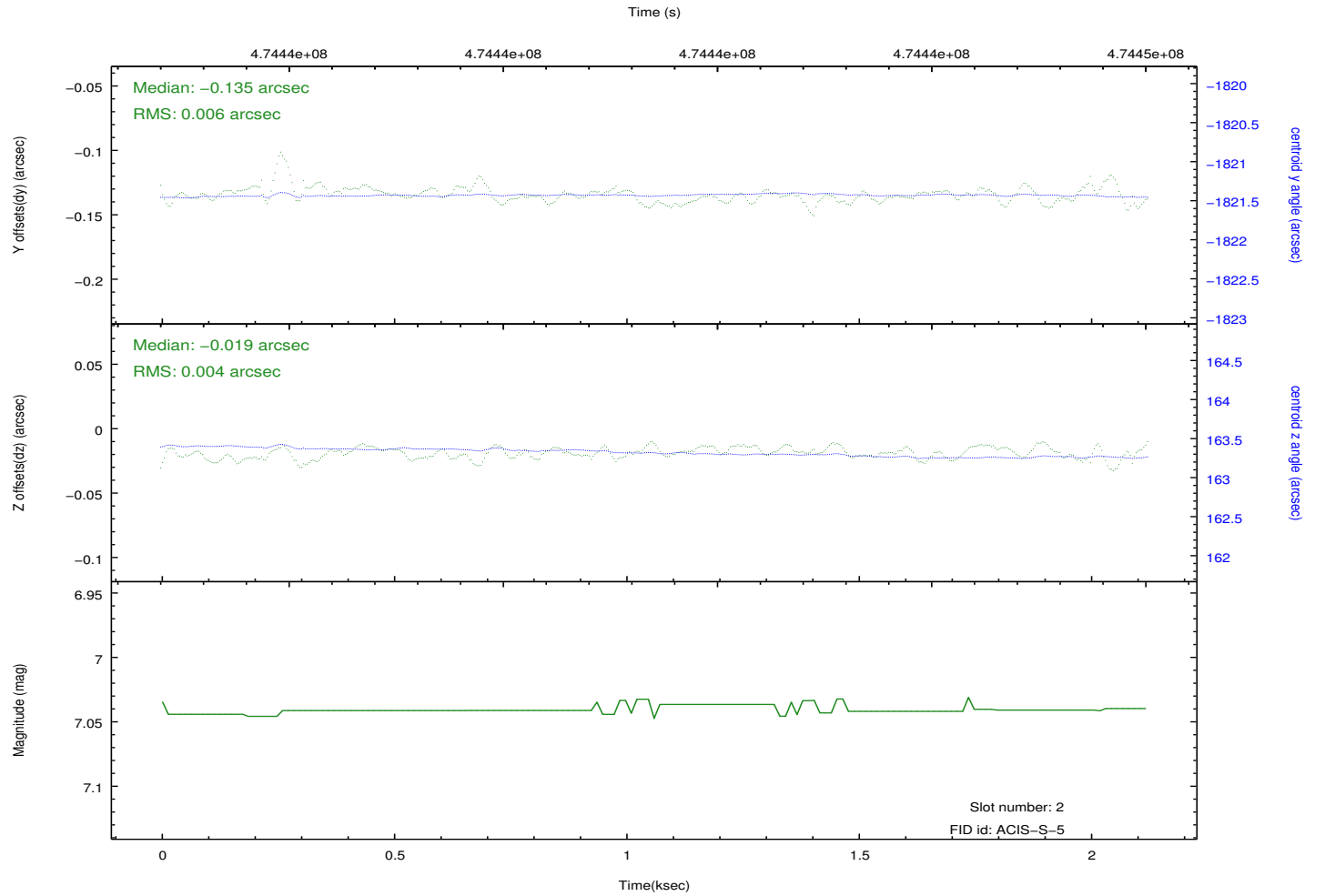
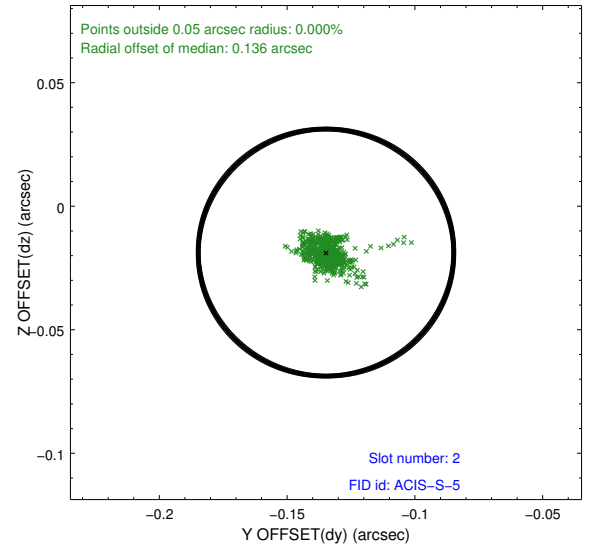
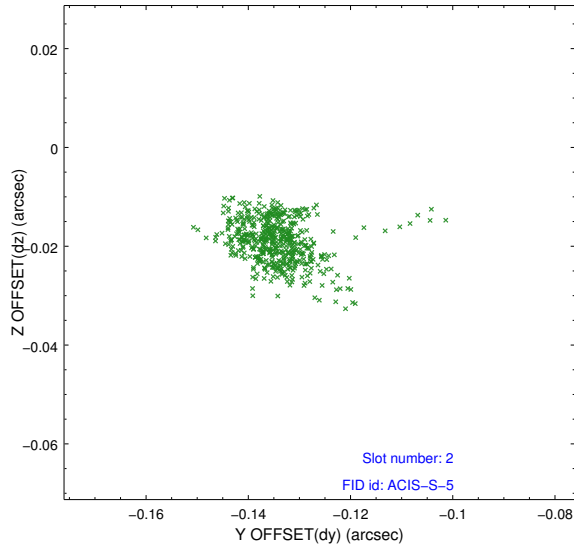
2.5.1 Slot 0



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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0930987637639

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.