

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15346 - L2 Version 2
Chandra X-Ray Center

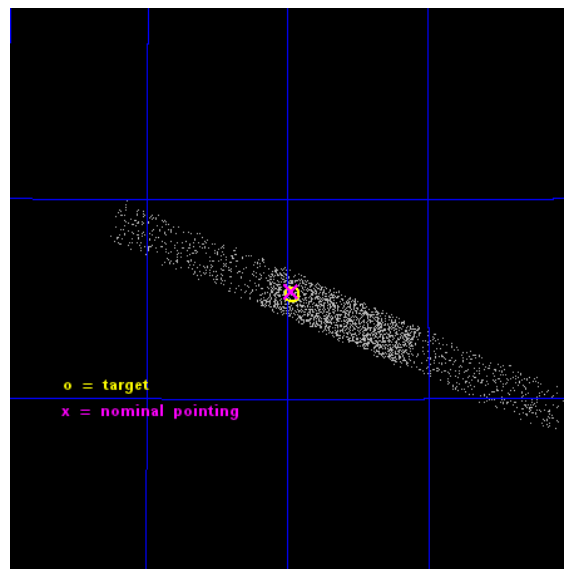
L2 Processing Date : Nov 30 2014

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1 Front

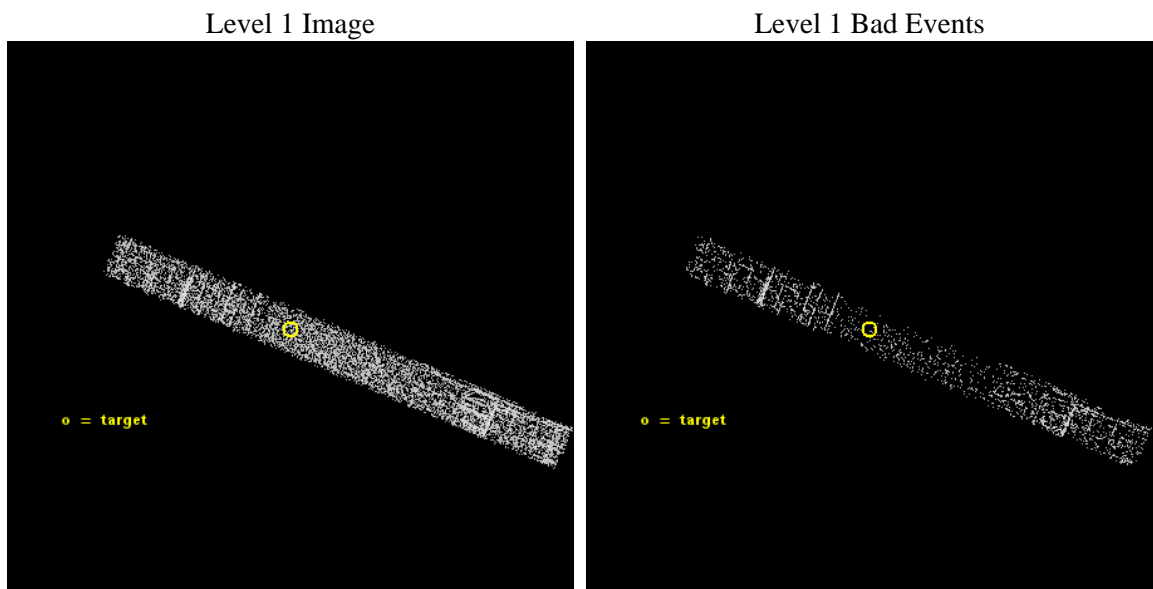
seq_num	702906	Sequence number
obs_id	15346	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1728+6035	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	262.242083	Observer's specified target RA [deg]
dec_targ	60.586861	Observer's specified target Dec [deg]
ra_nom	262.24273790339	Nominal RA [deg]
dec_nom	60.589864032874	Nominal Dec [deg]
roll_nom	22.42773510513	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	2800	Number of level 2 events



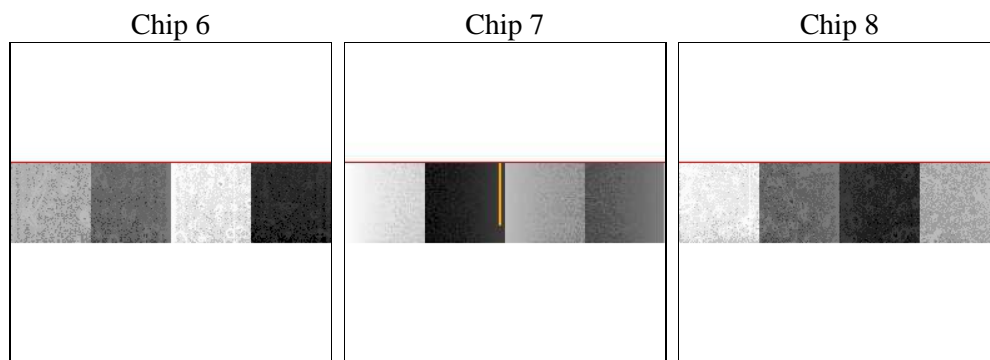
2 OBI

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]
caldsver	4.6.4	 	ontime6	2593.7999312878	Sum of GTIs [s]
date	2014-11-30T22:07:29	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	13615	Number of level 1 events

2.1.4 Events

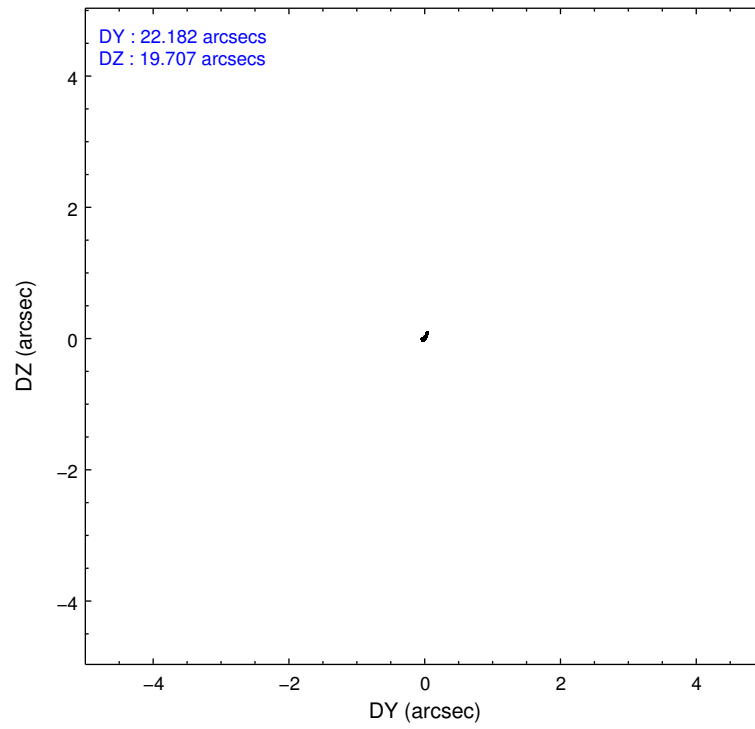
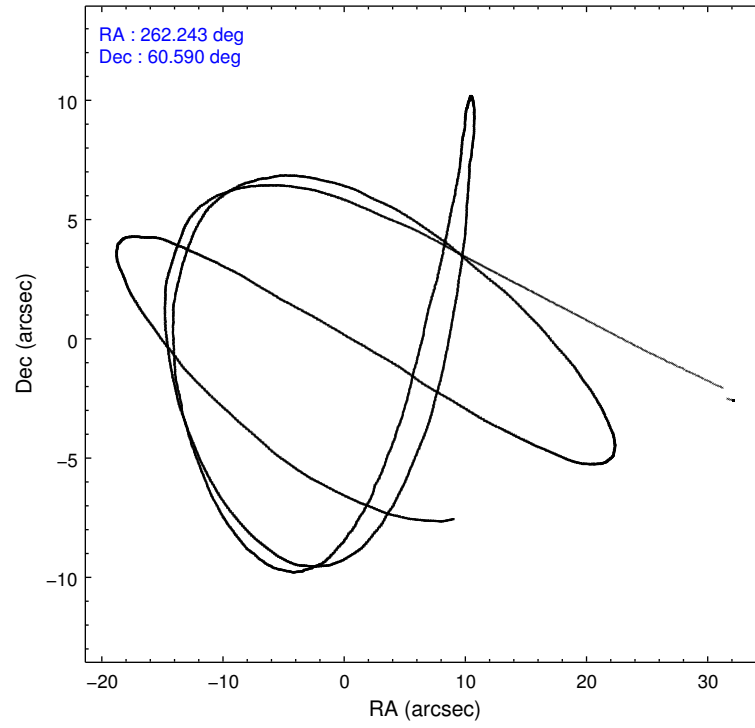
	ccd 6	ccd 7	ccd 8
level 1 events	4203	4044	5368
rejected events	3725	1958	4068
rejected %	88%	48%	75%

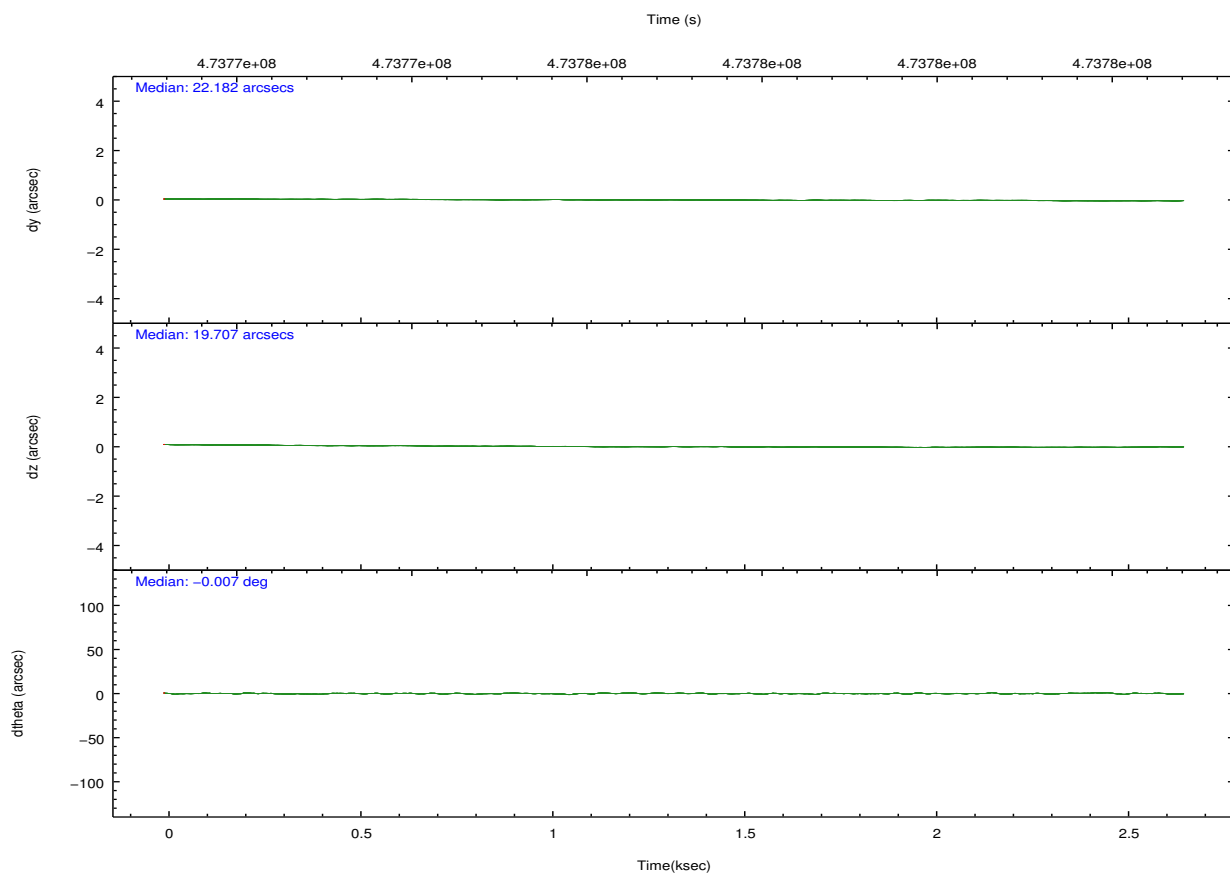
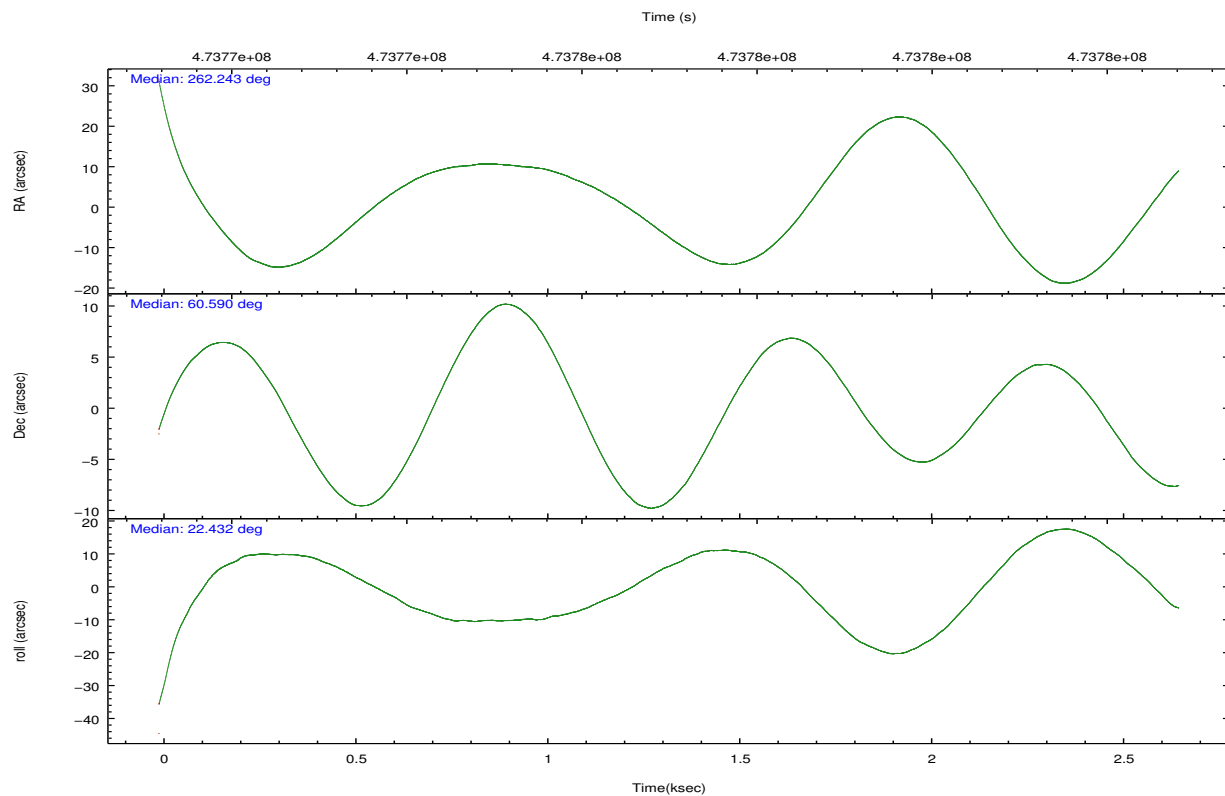
	ccd 6	ccd 7	ccd 8
grade 0 events	134	261	323
	3%	6%	6%
grade 1 events	0	8	2
	0%	0%	0%
grade 2 events	92	430	301
	2%	10%	5%
grade 3 events	80	242	143
	1%	5%	2%
grade 4 events	83	232	126
	1%	5%	2%
grade 5 events	168	416	227
	3%	10%	4%
grade 6 events	89	924	411
	2%	22%	7%
grade 7 events	3557	1531	3835
	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	262.209833	262.242737903392	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	60.567933	60.58986403287412	Subarray start row	385	385
[deg] Pointing Roll	22.299826	22.42773510513027	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)	473774065.184000	473773052.56211			
Observation start date	2013-01-05T11:53:18	2013-01-05T11:37:32			
[s] Observation end time (MET)	473776565.184000	473777180.23733			
Observation end date	2013-01-05T12:34:58	2013-01-05T12:46:20			
Read mode	TIMED	TIMED			

2.3 Aspect



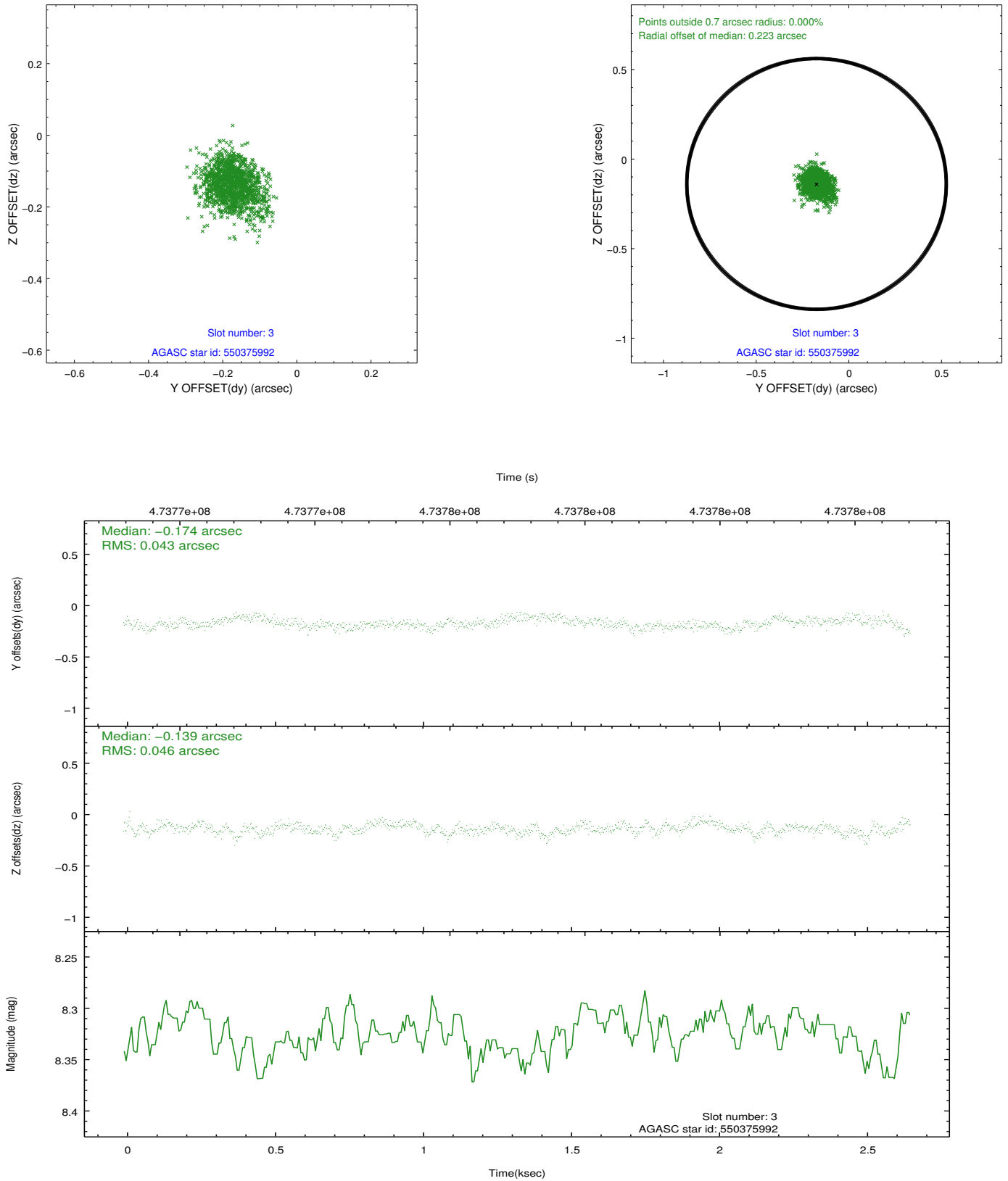


Slot Statistics

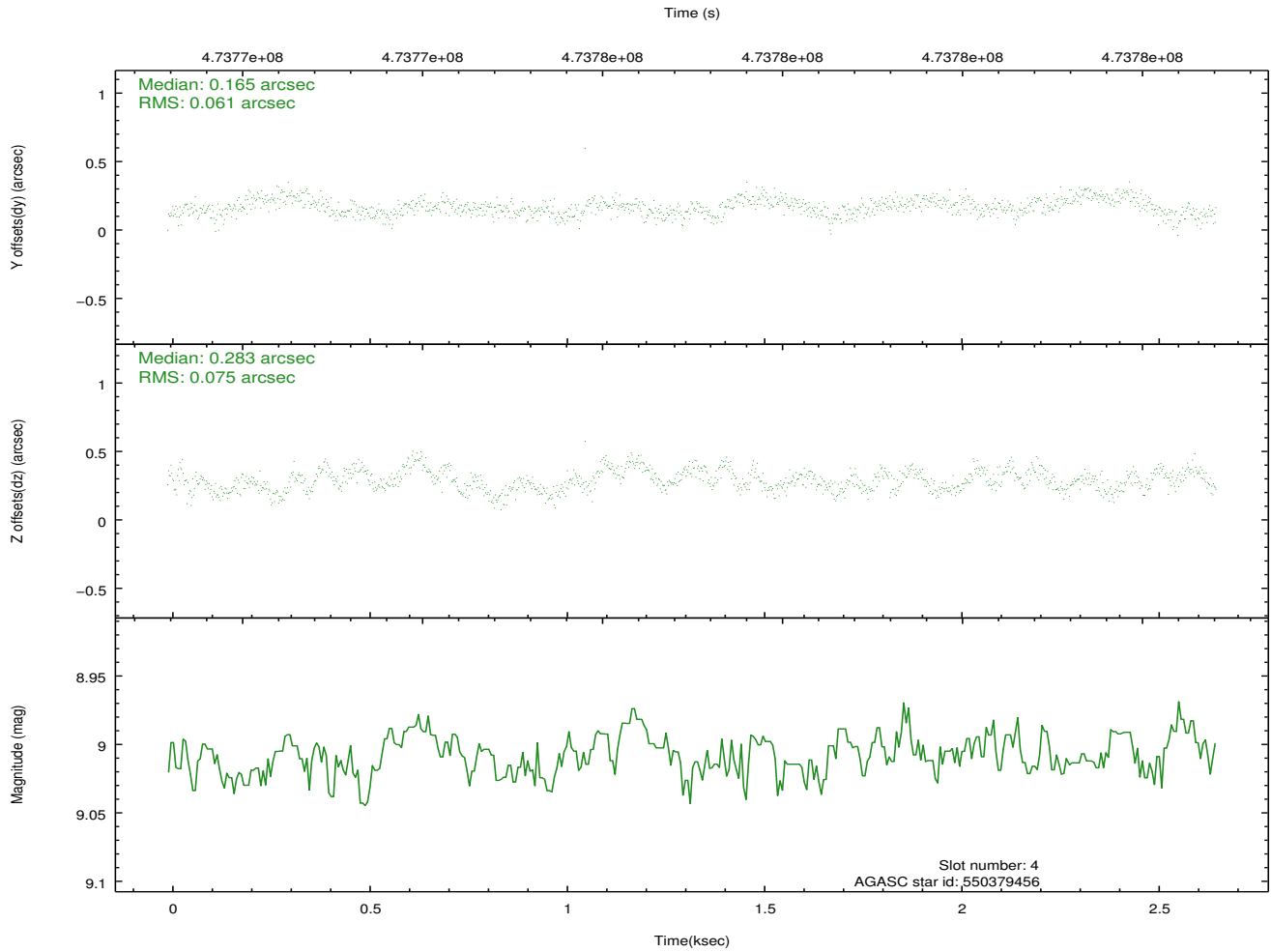
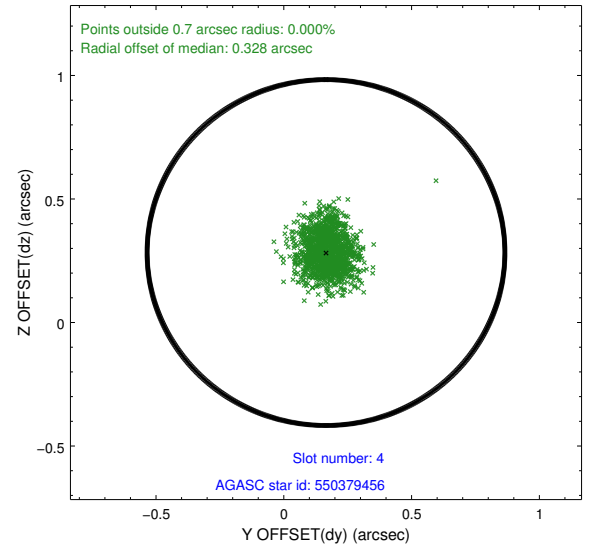
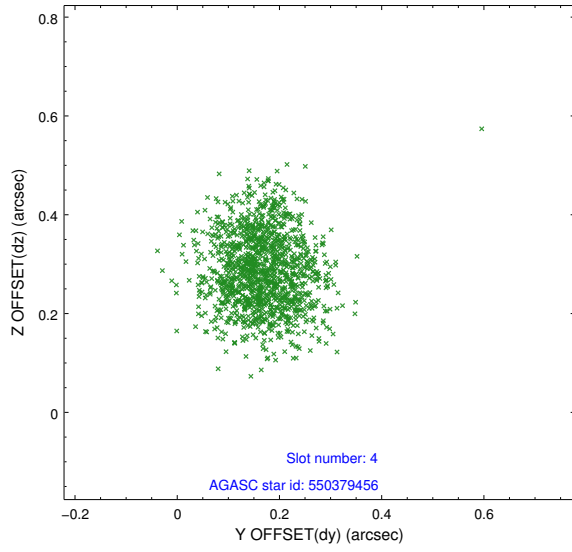
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.03	649	0.073	-0.039	0.006	0.010	0.000000	0.000000	920.81	-1736.82
1	FID		ACIS-S-5	7.07	649	-0.165	0.039	0.006	0.012	0.000000	0.000000	-1827.14	158.23
2	FID		ACIS-S-6	7.17	649	0.071	0.011	0.007	0.012	0.000000	0.000000	383.65	804.96
3	GUIDE	used	550375992	8.33	1297	-0.174	-0.139	0.066	0.109	262.402125	61.087231	1019.62	1602.51
4	GUIDE	used	550379456	9.01	1296	0.165	0.283	0.103	0.165	261.515849	60.574916	-1121.64	496.98
5	GUIDE	used	550380408	8.54	1295	0.004	-0.034	0.067	0.107	261.832166	60.909093	-144.94	1388.96
6	GUIDE	used	550251704	9.23	1291	0.114	-0.020	0.099	0.175	260.624311	60.710937	-2374.68	1567.84
7	GUIDE	used	550252400	6.94	1296	-0.115	-0.102	0.073	0.117	260.907095	60.998546	-1508.26	2319.15

2.4 Star Slots

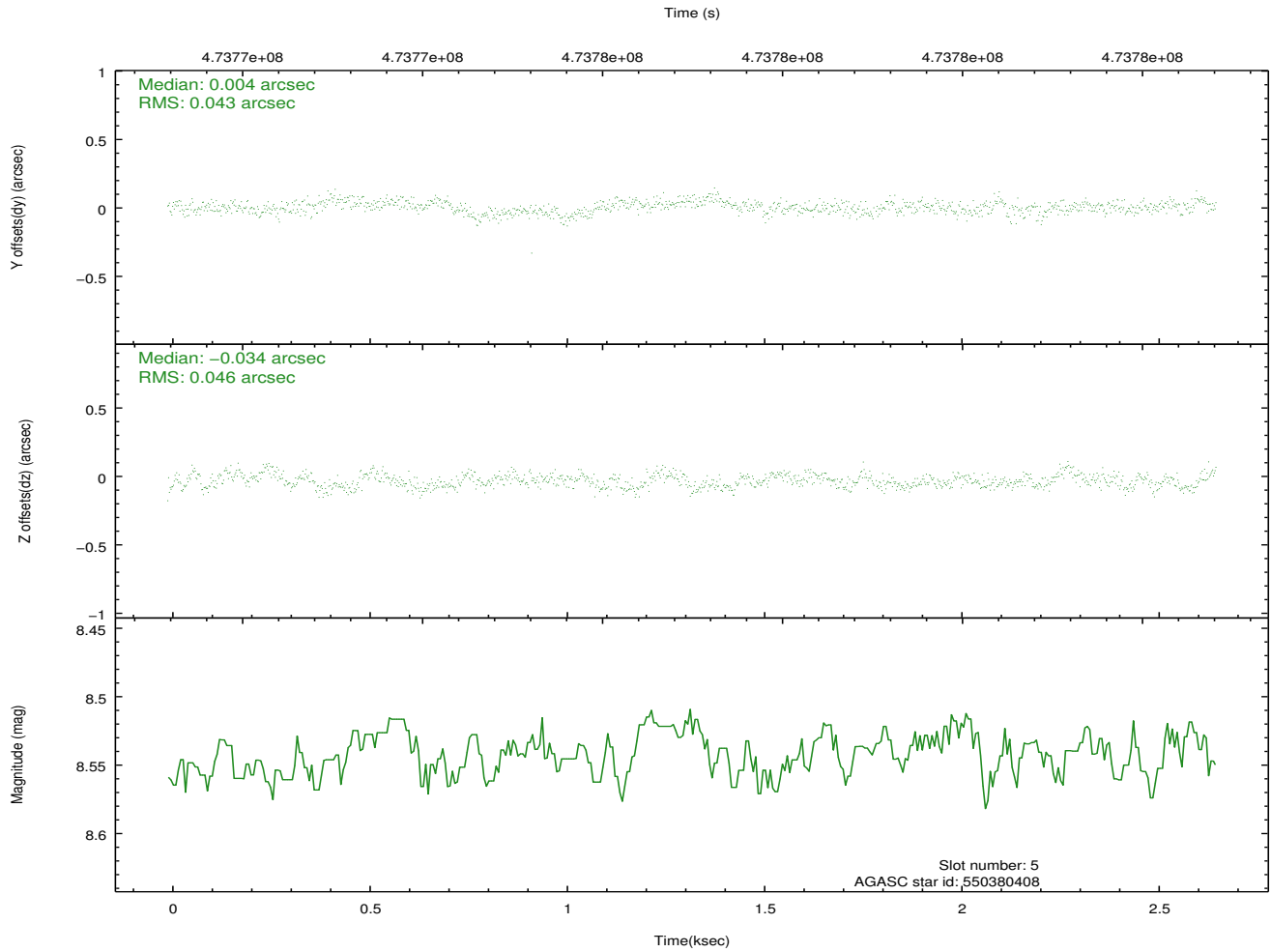
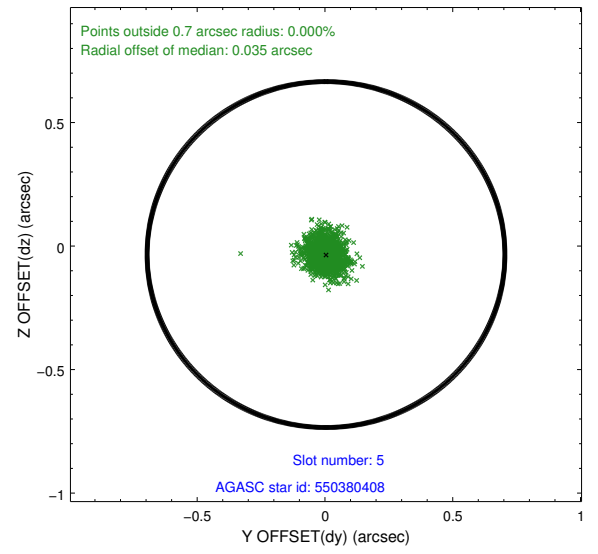
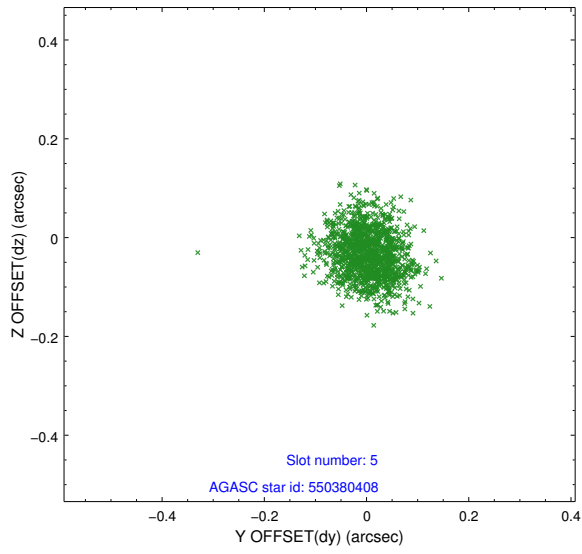
2.4.1 Slot 3



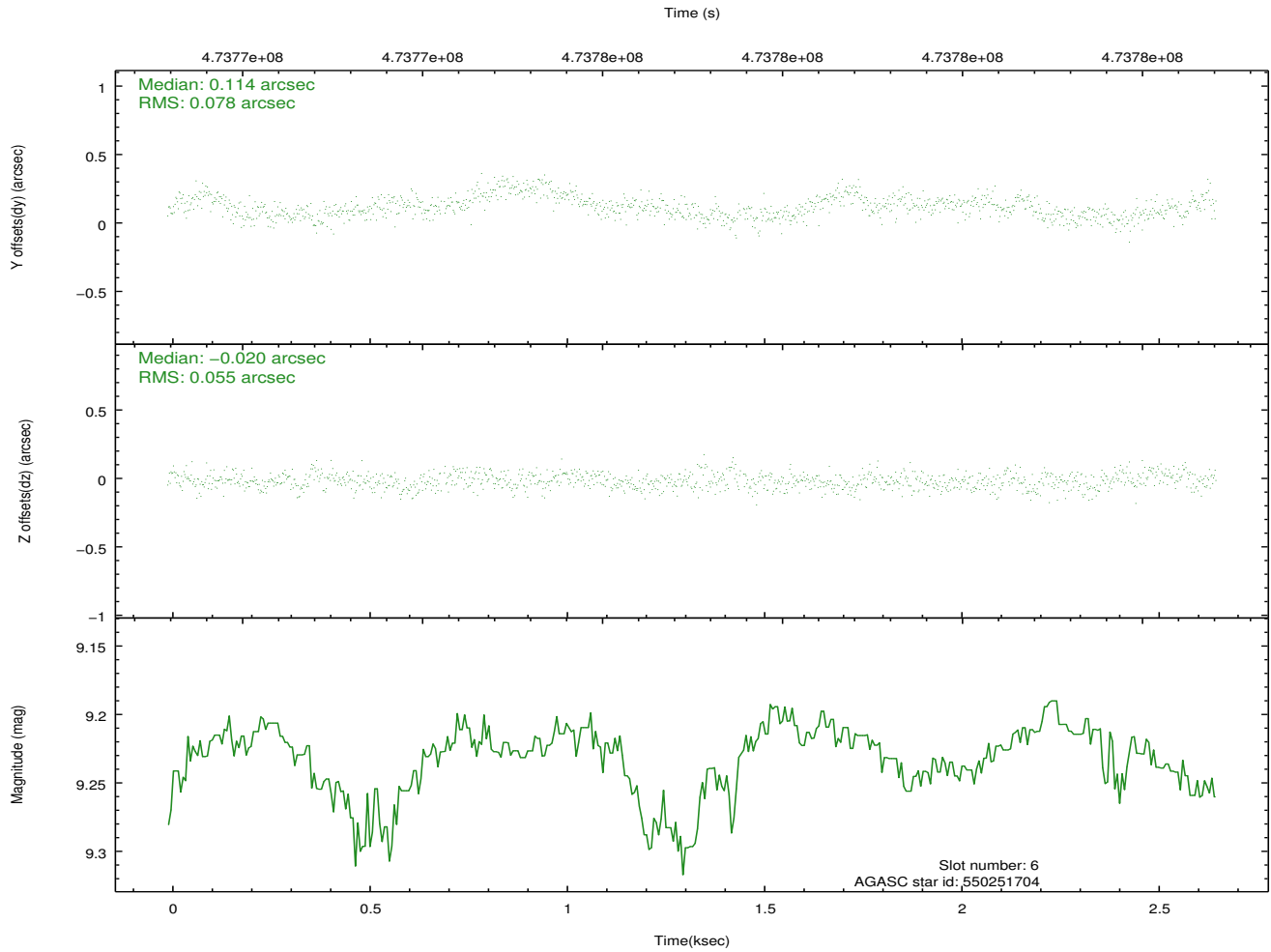
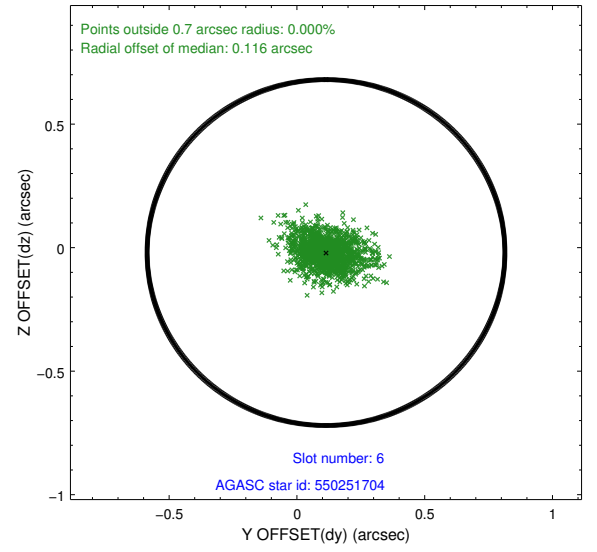
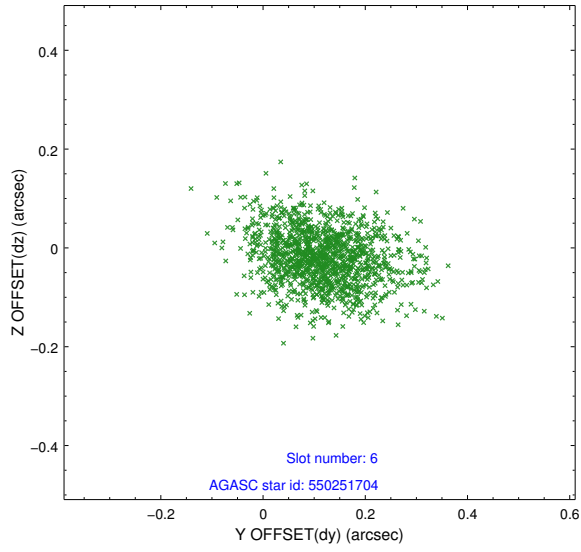
2.4.2 Slot 4



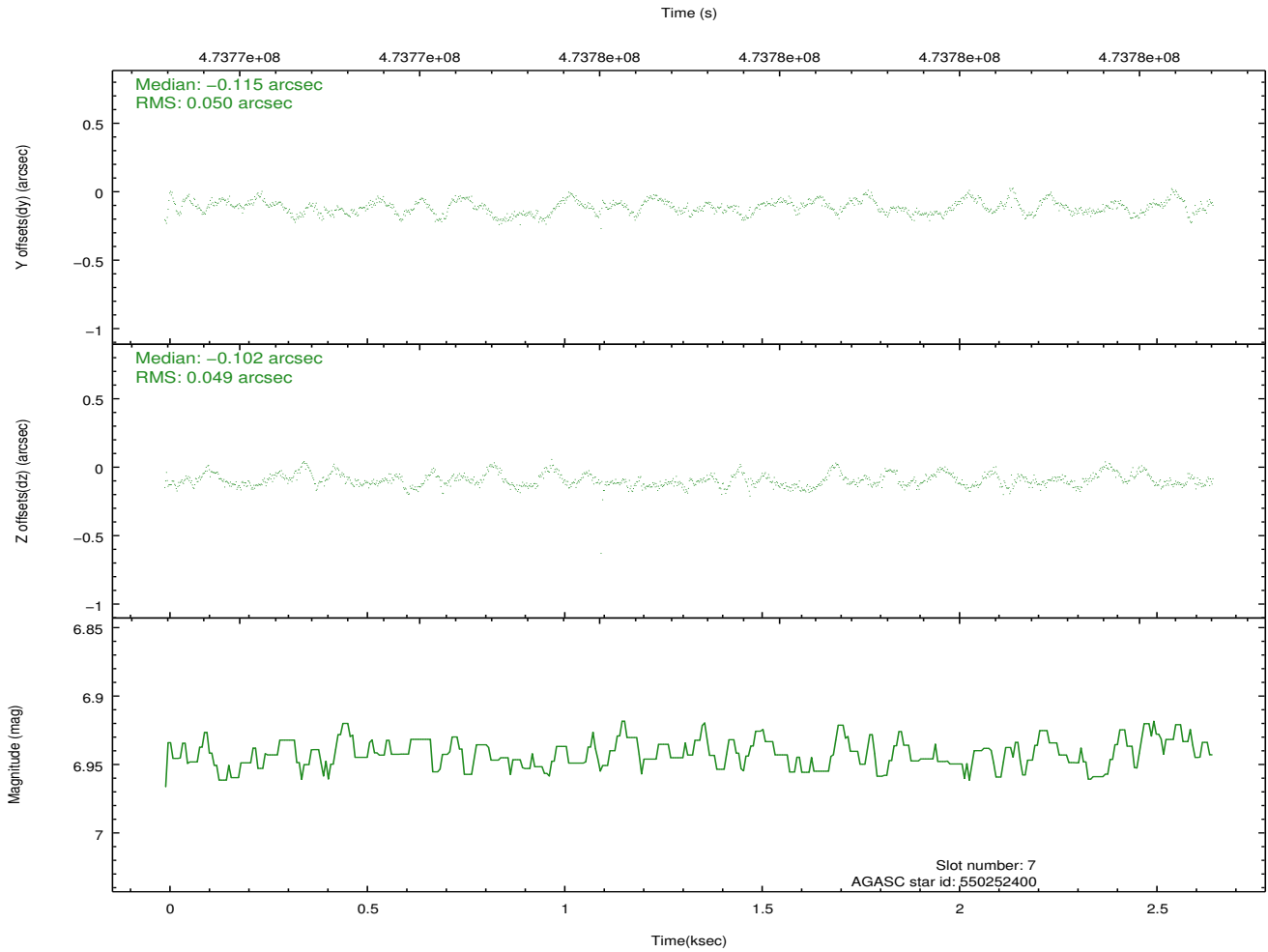
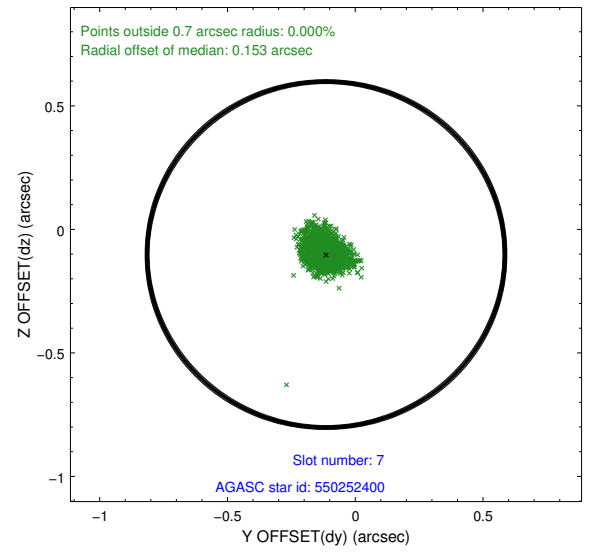
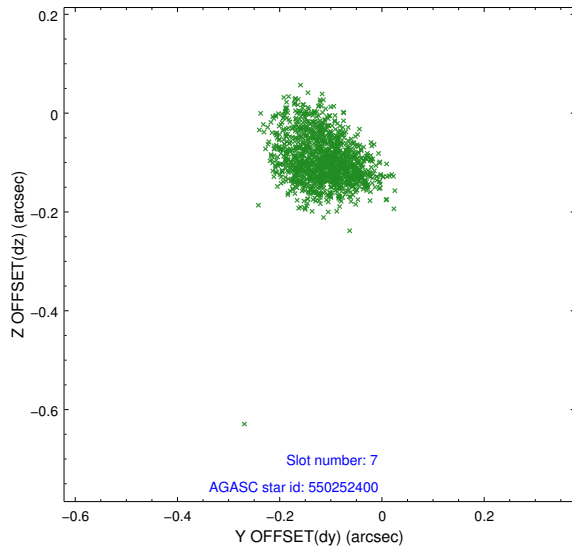
2.4.3 Slot 5



2.4.4 Slot 6

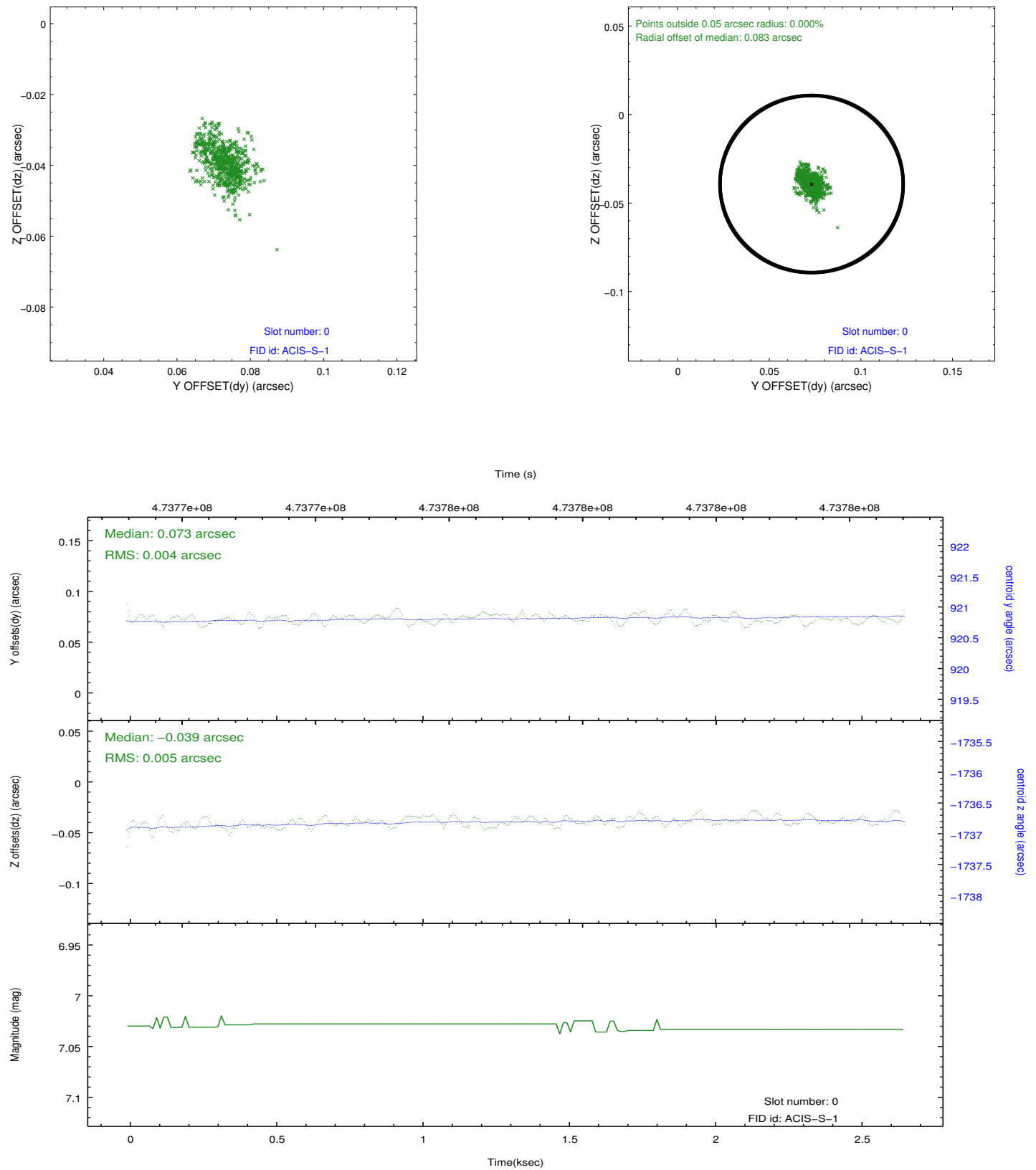


2.4.5 Slot 7

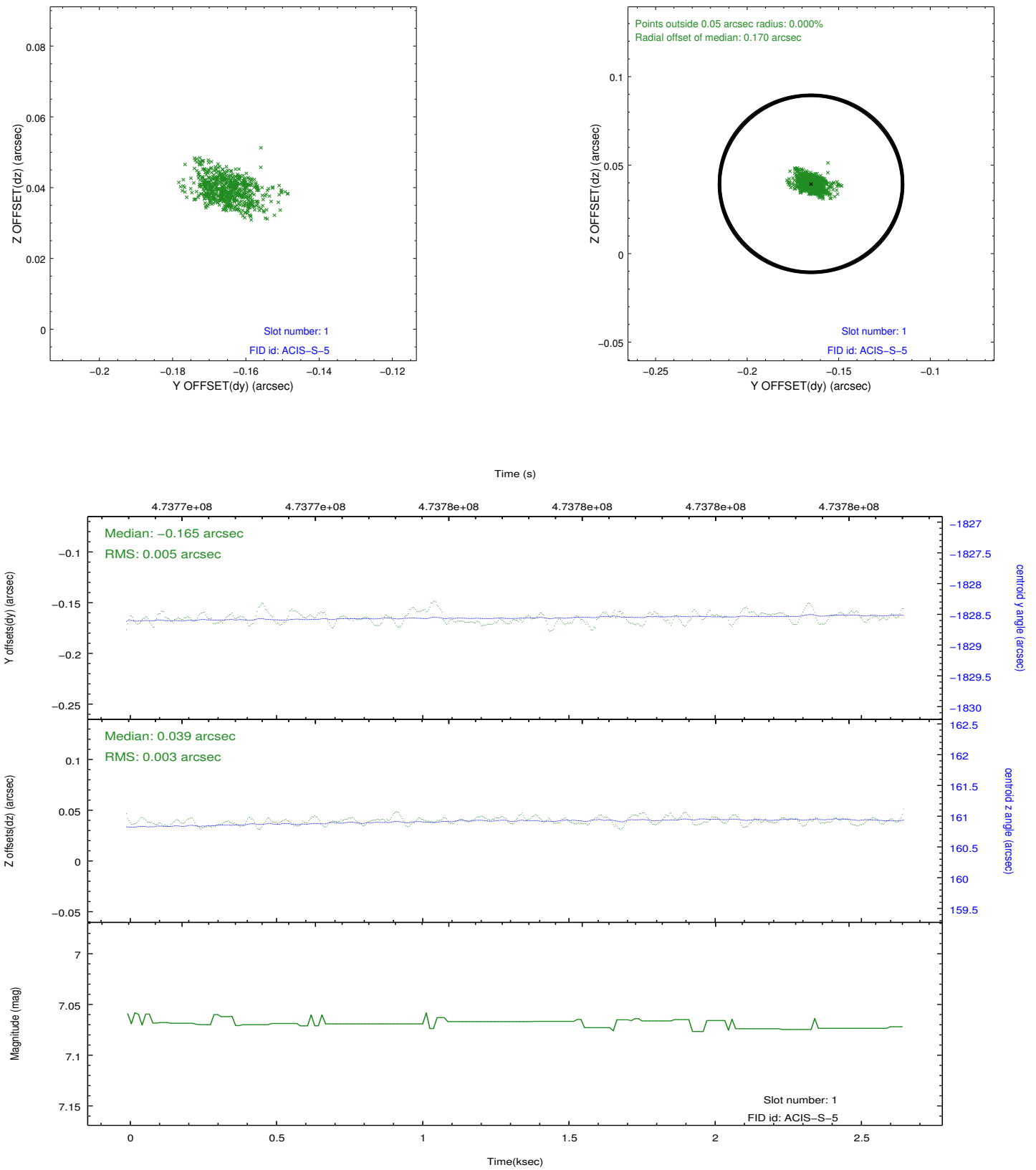


2.5 FID Slots

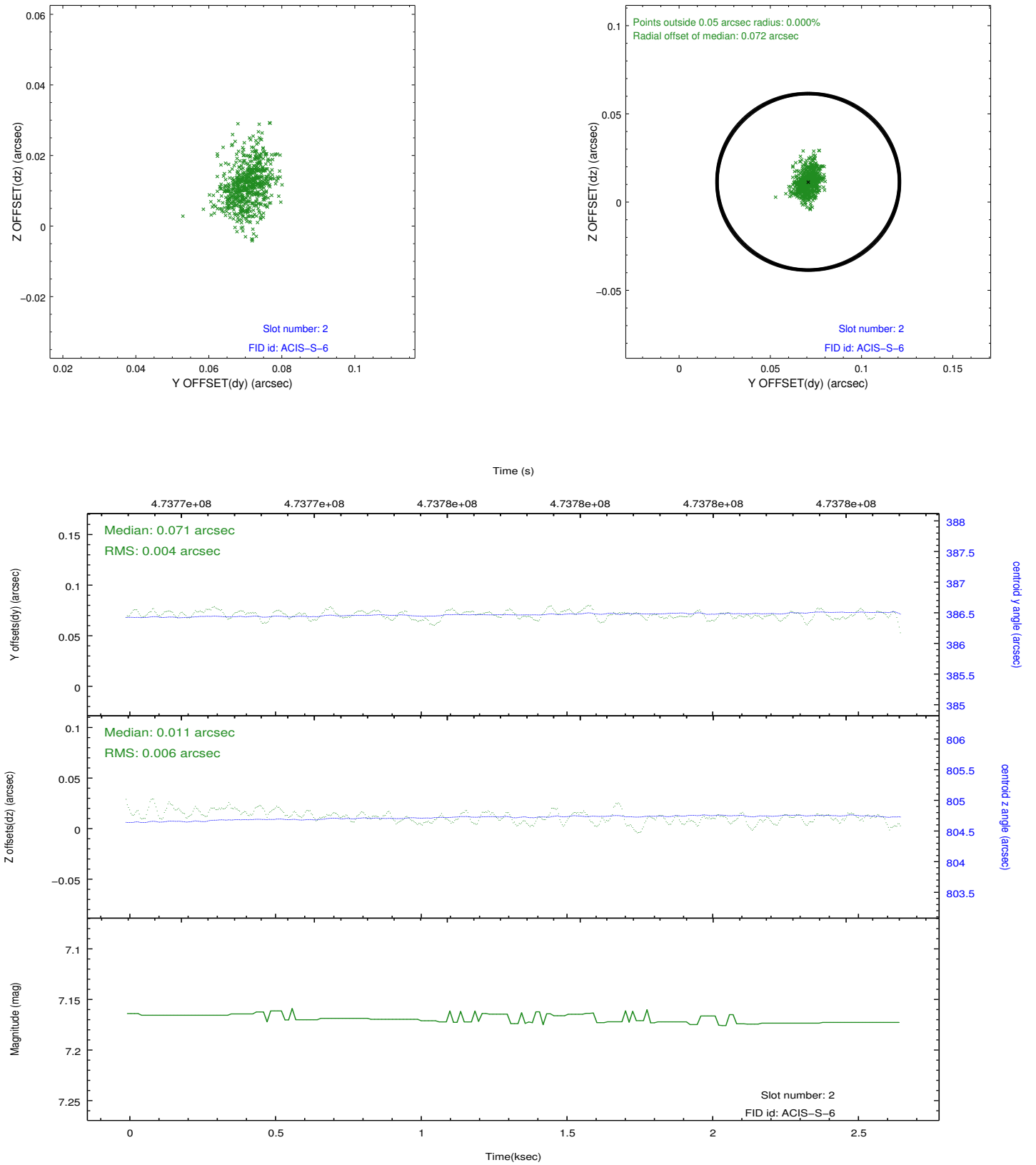
2.5.1 Slot 0



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)	2014.12.08
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.