

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14647 - L2 Version 2
Chandra X-Ray Center

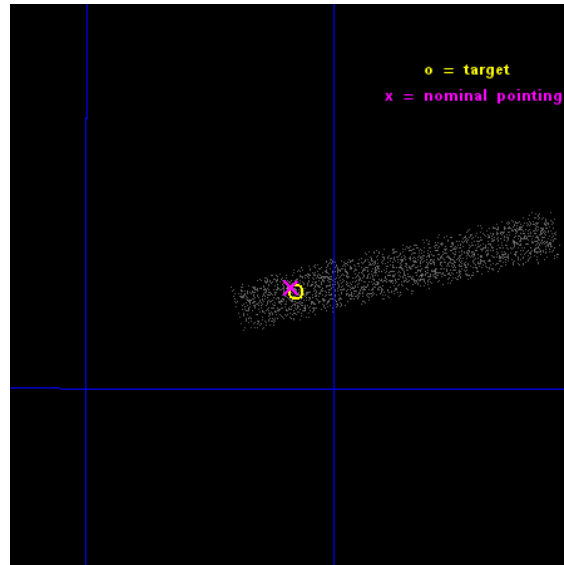
L2 Processing Date : Nov 30 2014

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1 Front

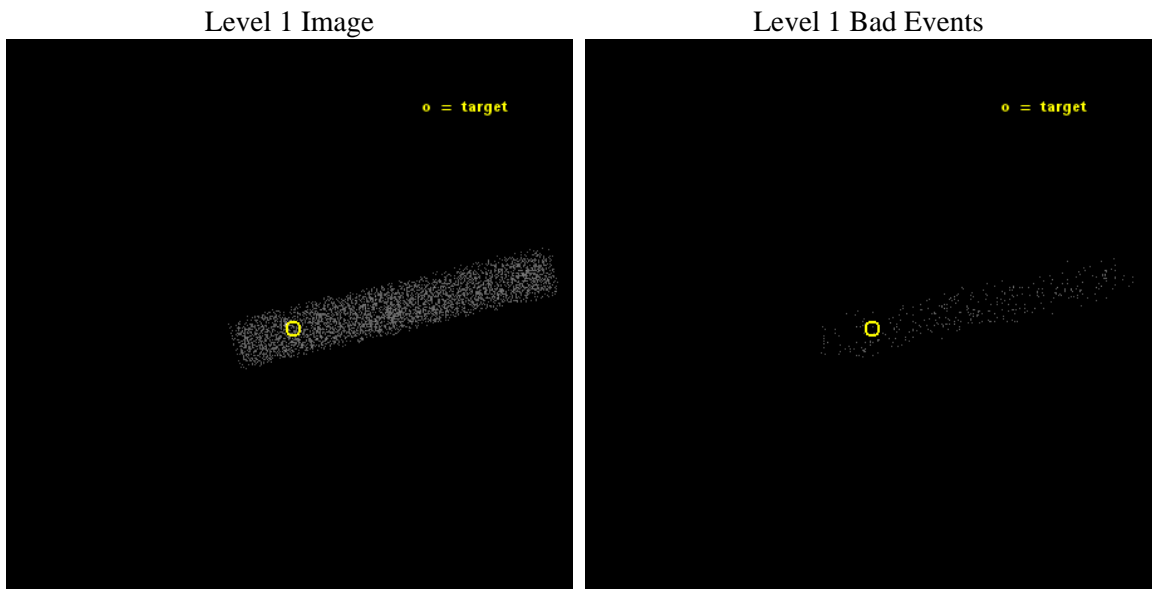
seq_num	401480	Sequence number
obs_id	14647	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	KS 1947+300	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	297.39375	Observer's specified target RA [deg]
dec_targ	30.20675	Observer's specified target Dec [deg]
ra_nom	297.39615306035	Nominal RA [deg]
dec_nom	30.208806393937	Nominal Dec [deg]
roll_nom	347.14986348656	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5070.3996977806	Sum of GTIs [s]
livetime	4598.5848882465	Livetime [s]
ontime7	5070.3996977806	Sum of GTIs [s]
l2events	3013	Number of level 2 events



2 OBI

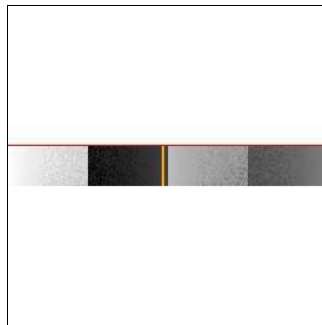
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5070.3996977806	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	5070.3996977806	Sum of GTIs [s]
date	2014-11-30T22:07:17	Date and time of file creation	l1events	5616	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

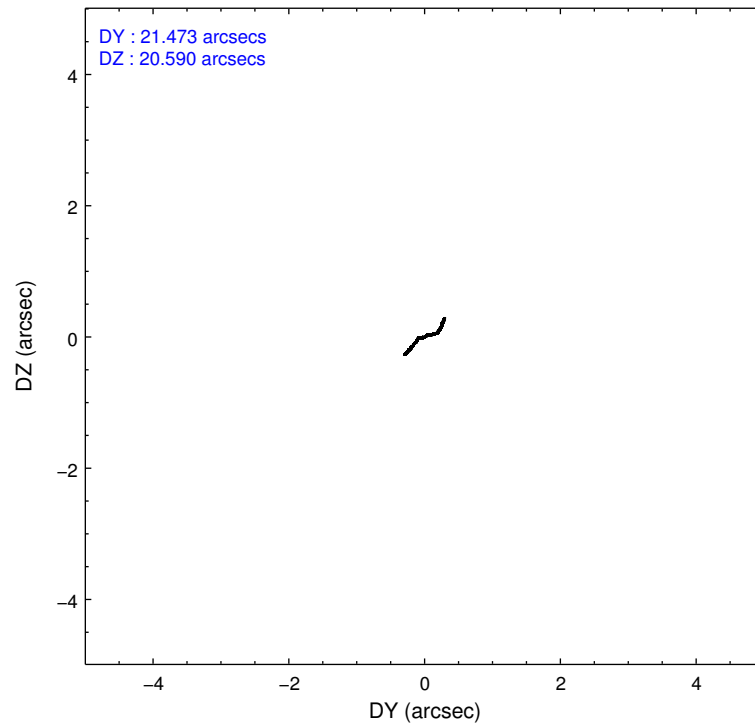
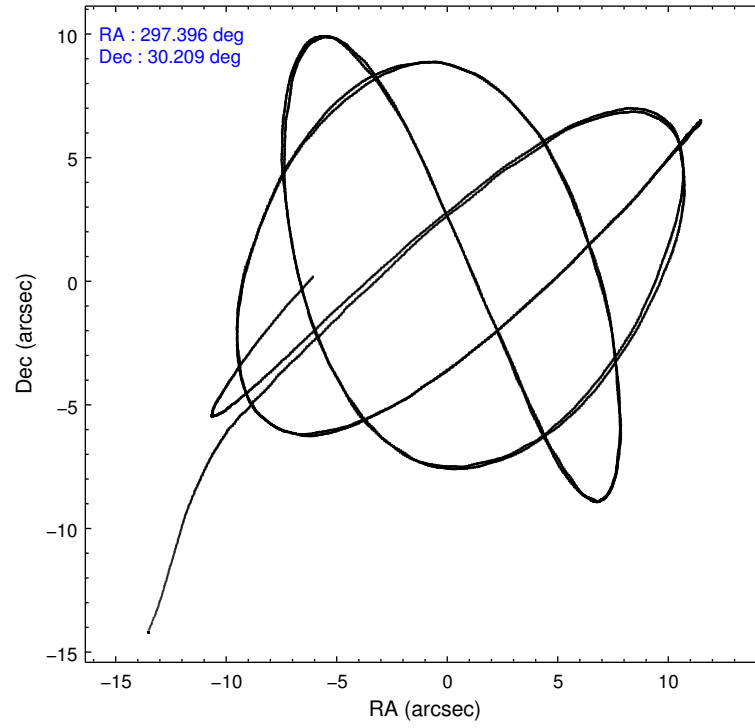
	ccd 7
level 1 events	5616
rejected events	2484
rejected %	44%

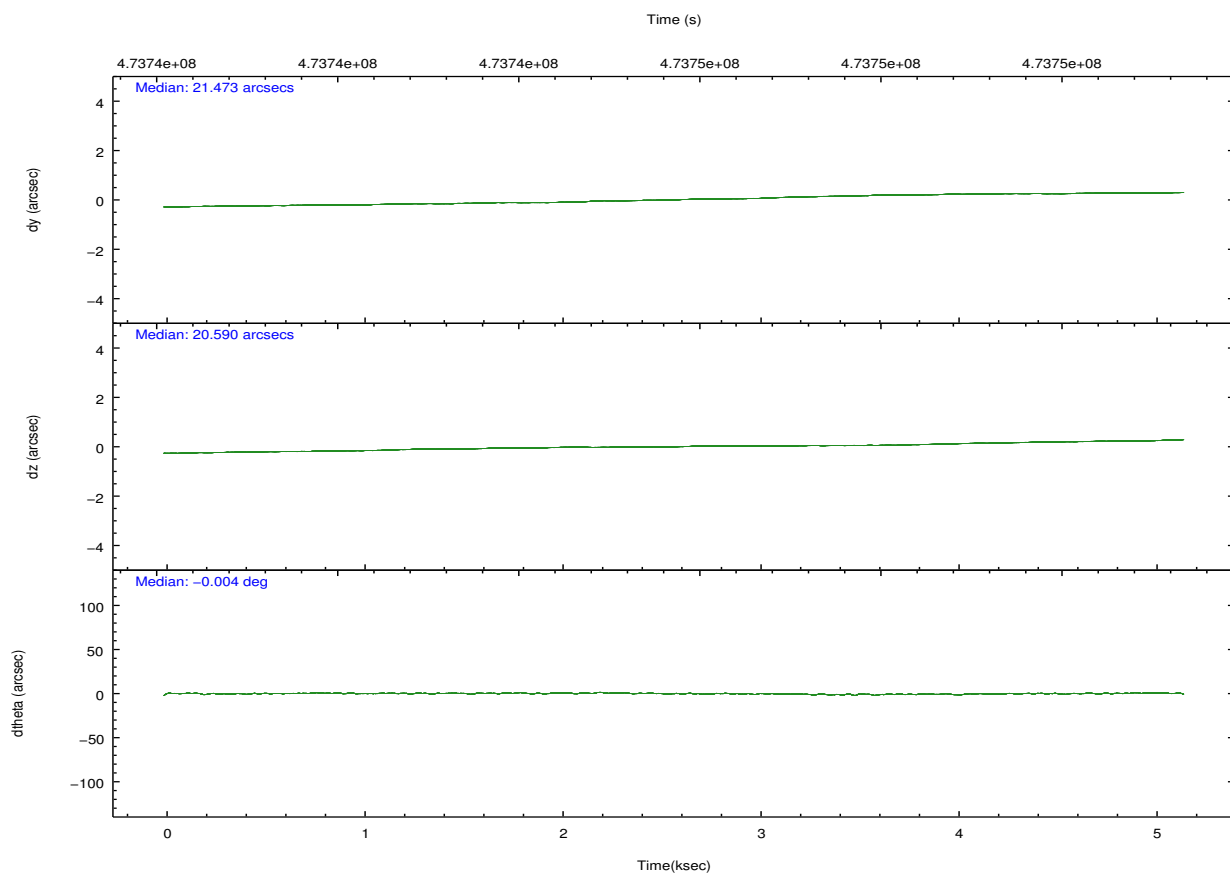
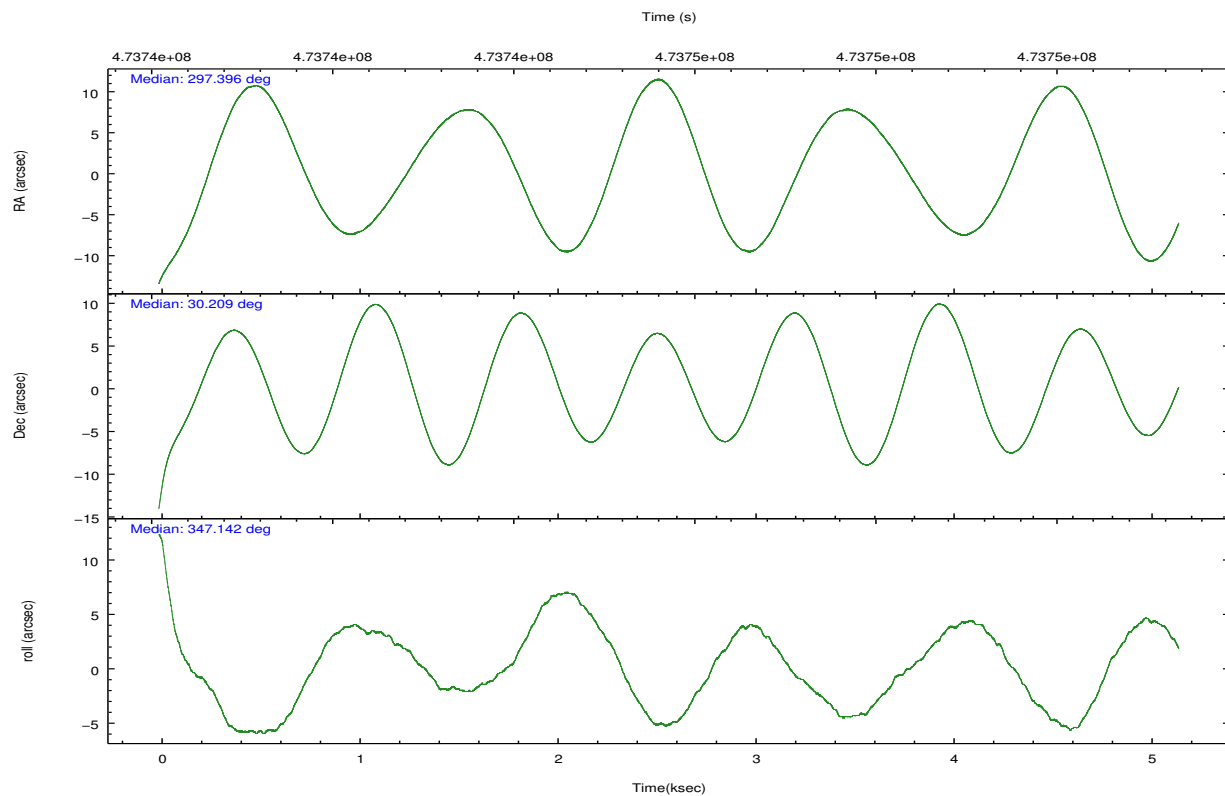
	ccd 7
grade 0 events	390
	6%
grade 1 events	7
	0%
grade 2 events	609
	10%
grade 3 events	421
	7%
grade 4 events	395
	7%
grade 5 events	496
	8%
grade 6 events	1317
	23%
grade 7 events	1981
	35%

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	297.366146	297.3961530603524	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	30.200453	30.20880639393724	Subarray start row	449	449
[deg] Pointing Roll	347.008318	347.1498634865618	Subarray row count	128	128
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	473743430.184000	473742177.51044			
Observation start date	2013-01-05T03:22:43	2013-01-05T03:02:57			
[s] Observation end time (MET)	473748430.184000	473748743.6608			
Observation end date	2013-01-05T04:46:03	2013-01-05T04:52:23			
Read mode	TIMED	TIMED			

2.3 Aspect



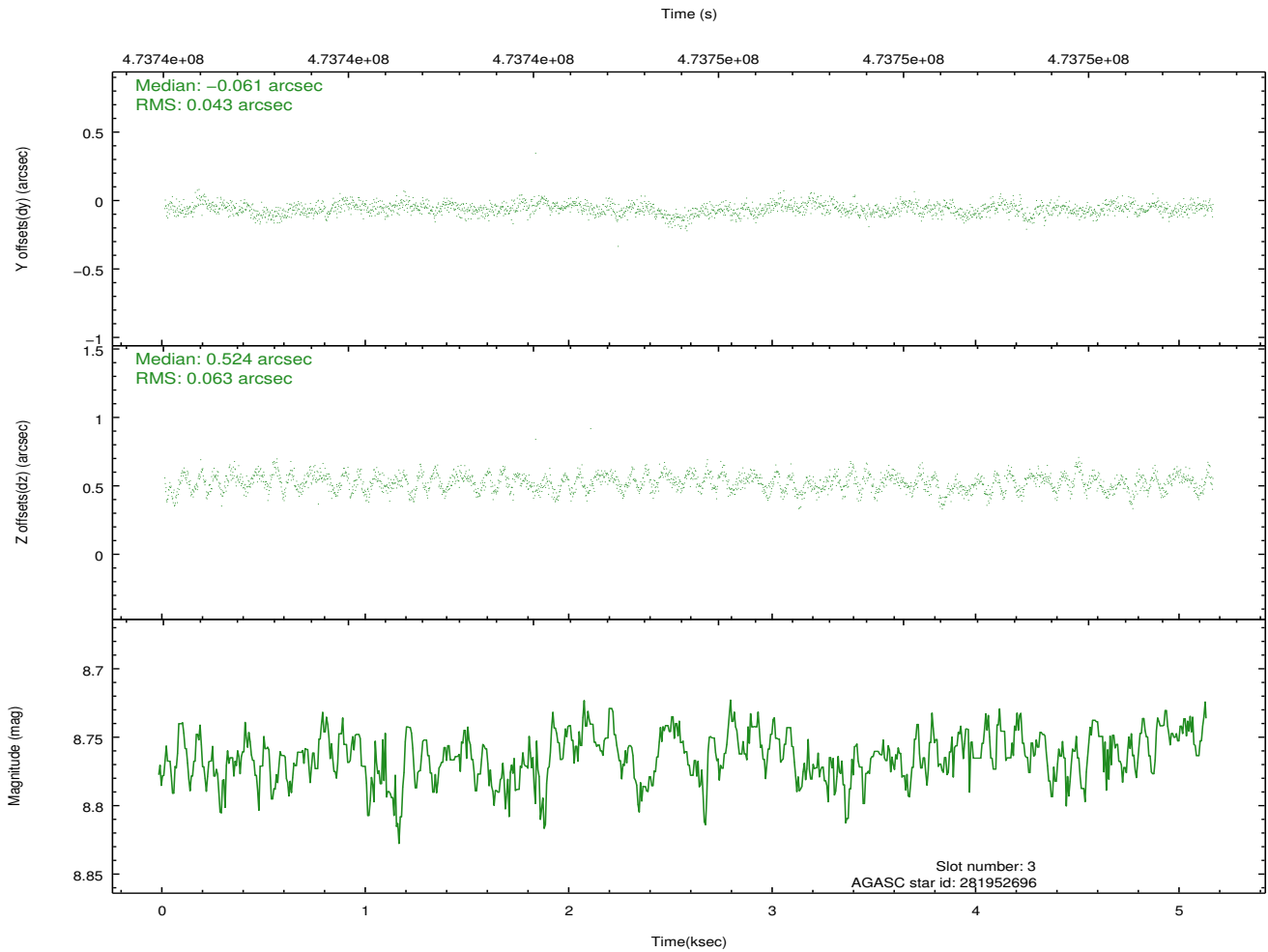
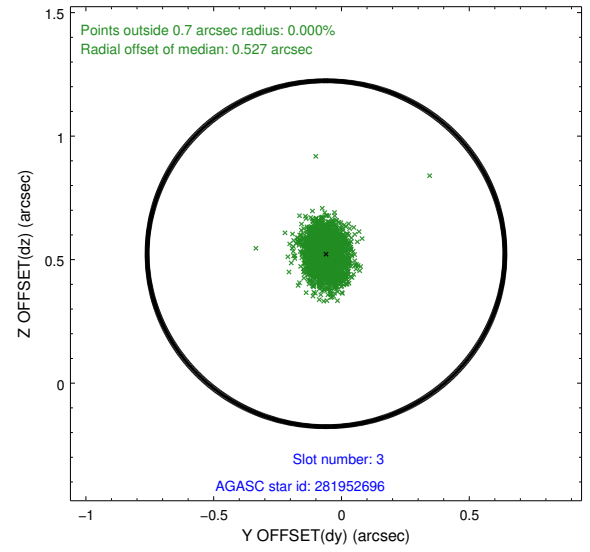
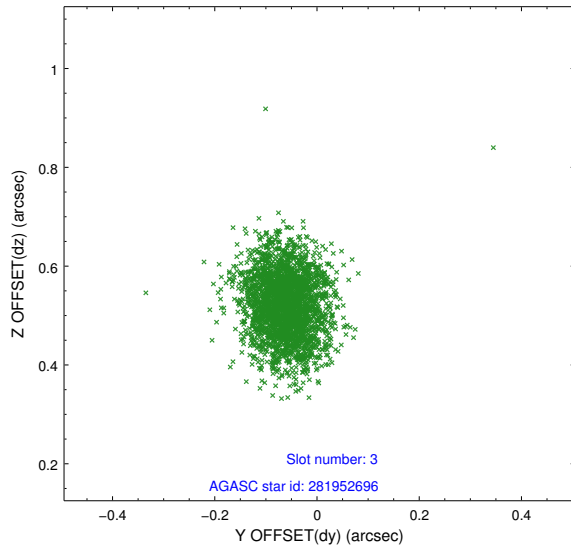


Slot Statistics

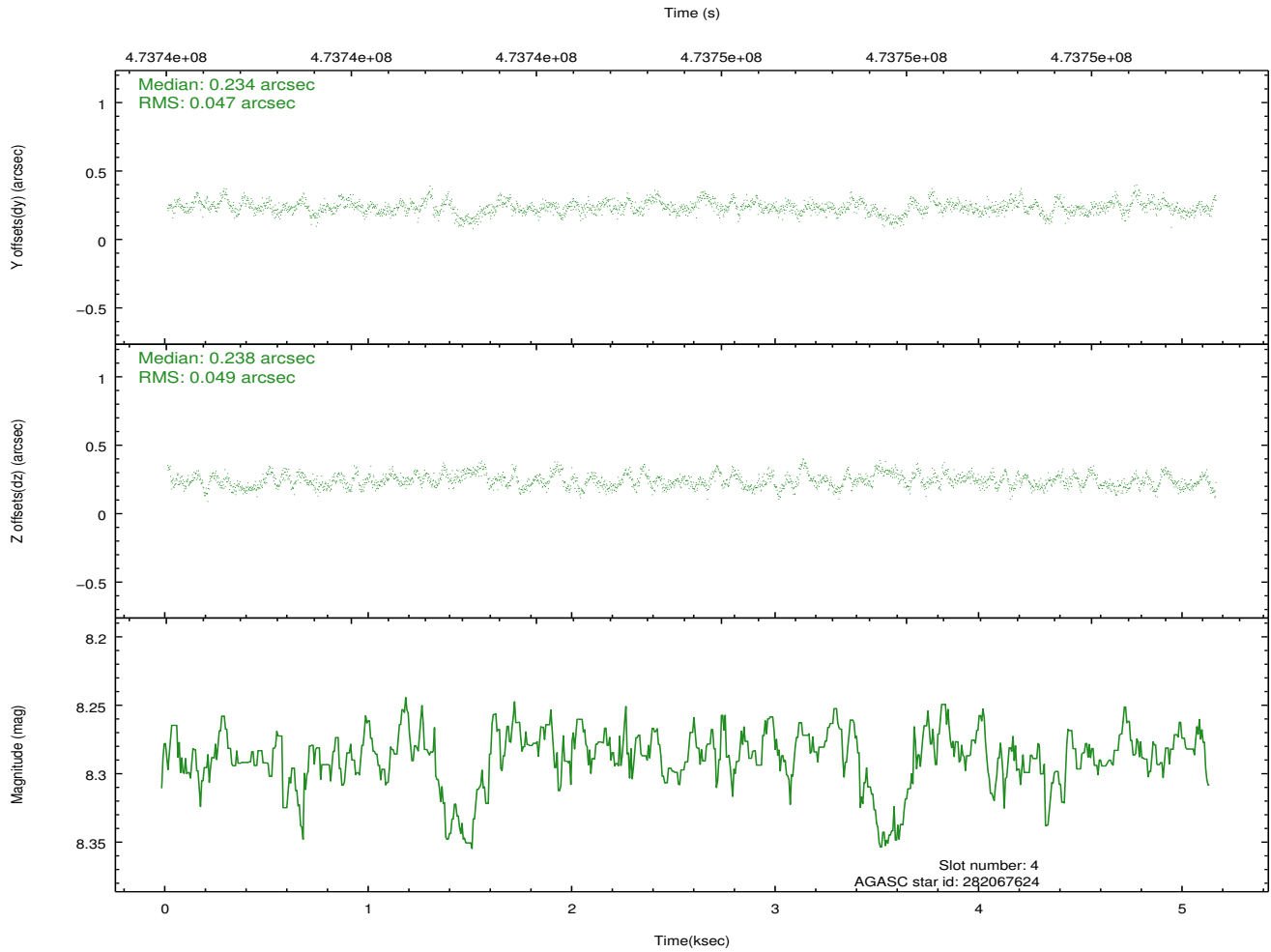
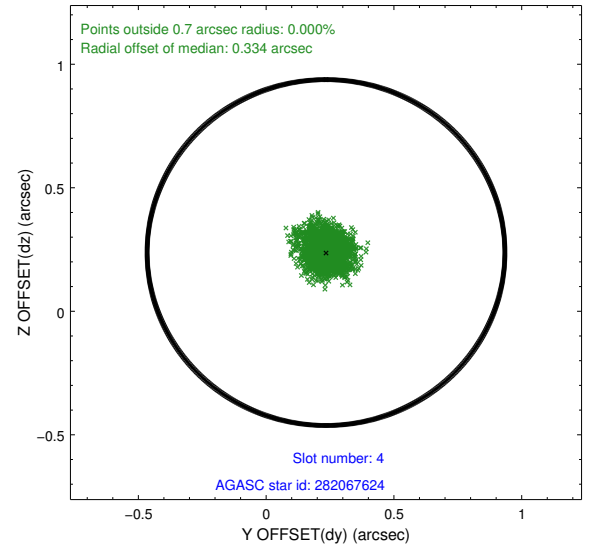
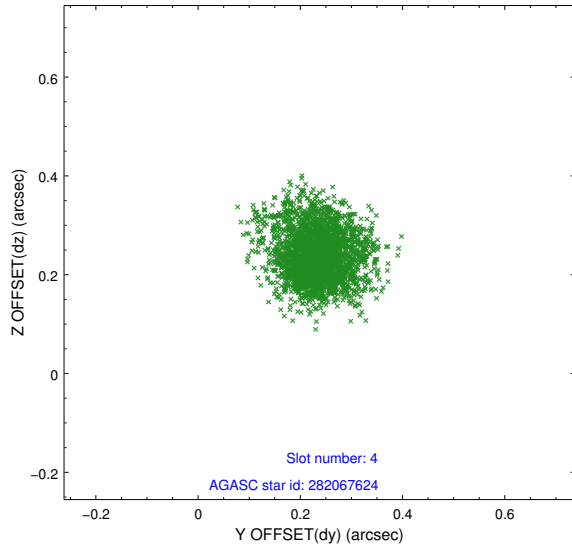
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	1257	-0.111	-0.002	0.010	0.017	0.000000	0.000000	-774.74	-1742.07
1	FID		ACIS-S-4	7.02	1257	0.211	0.054	0.007	0.011	0.000000	0.000000	2138.31	165.25
2	FID		ACIS-S-5	7.04	1256	-0.132	-0.043	0.010	0.018	0.000000	0.000000	-1826.11	160.15
3	GUIDE	used	281952696	8.76	2513	-0.061	0.524	0.080	0.133	296.700737	29.715077	-1635.17	-2164.07
4	GUIDE	used	282067624	8.29	2513	0.234	0.238	0.072	0.119	297.393899	29.862536	358.28	-1166.12
5	GUIDE	used	282070648	7.94	2513	-0.044	0.239	0.076	0.128	297.262442	29.882854	-57.52	-1186.63
6	GUIDE	used	349854944	7.66	2513	0.189	-0.890	0.065	0.107	297.169420	30.828467	-1100.49	2065.61
7	GUIDE	used	349863632	8.20	2512	-0.319	-0.112	0.066	0.108	298.178689	30.370147	2319.51	1172.81

2.4 Star Slots

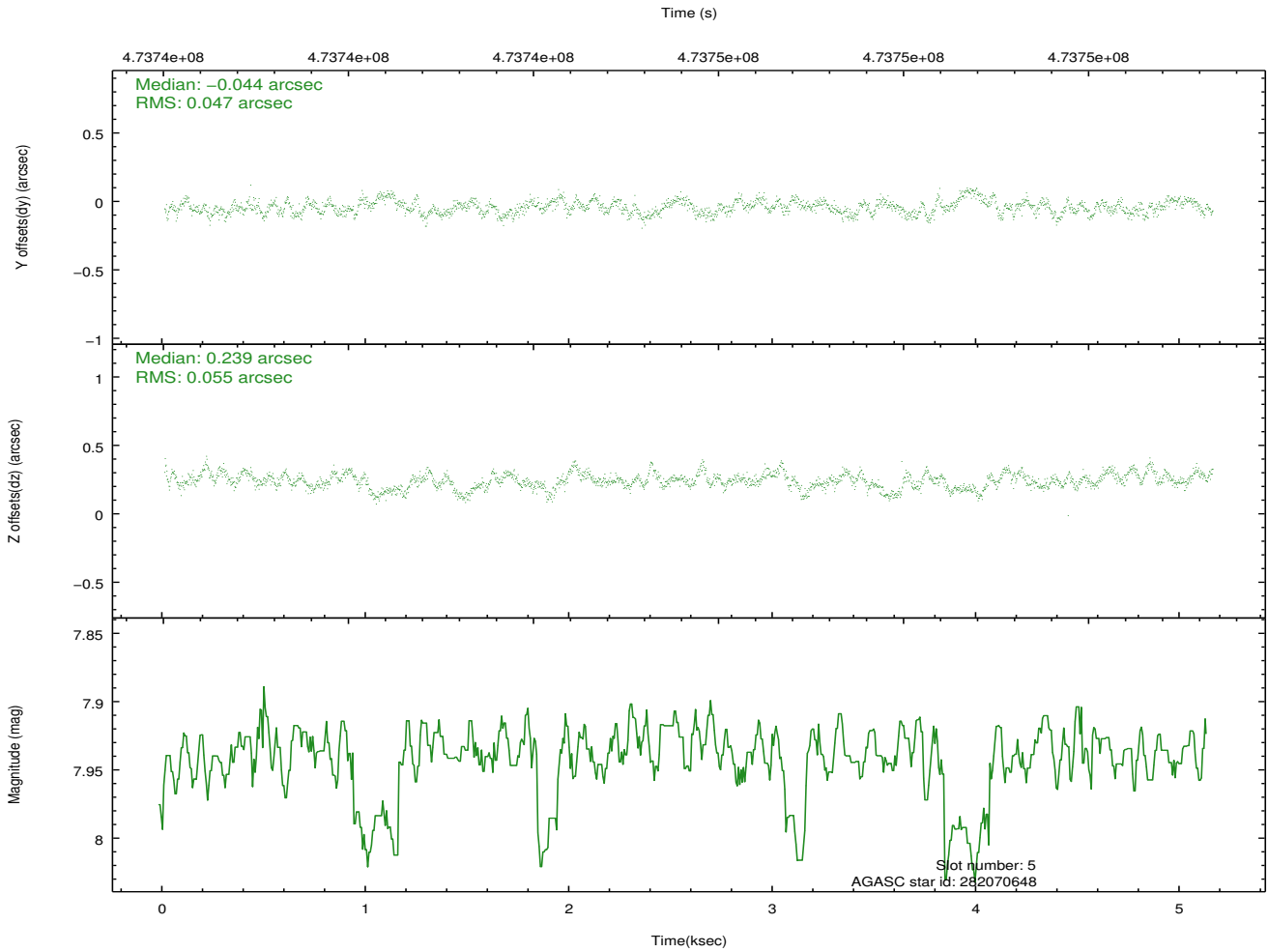
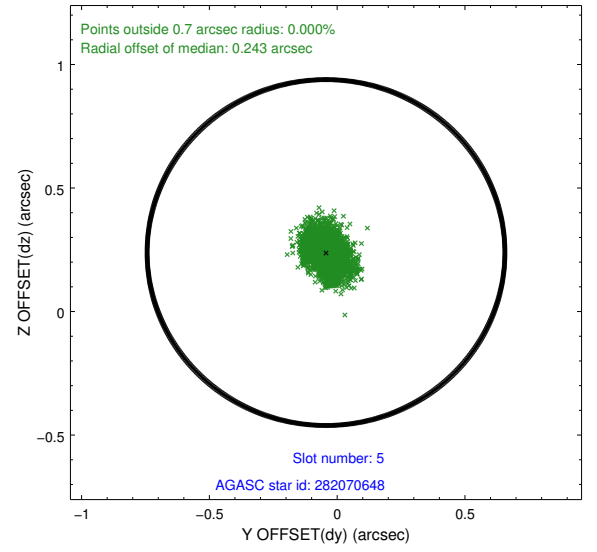
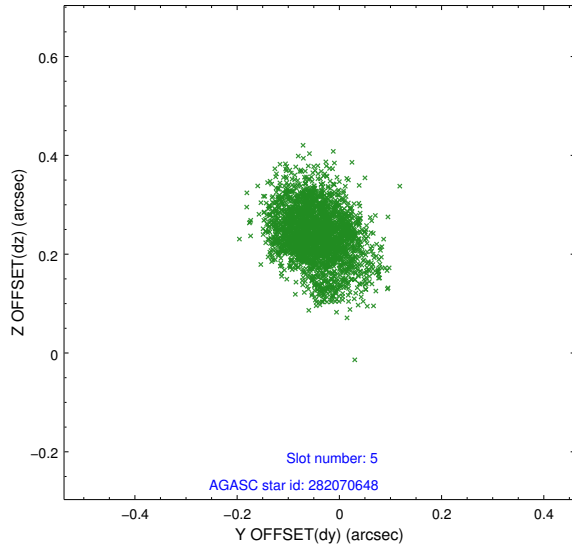
2.4.1 Slot 3



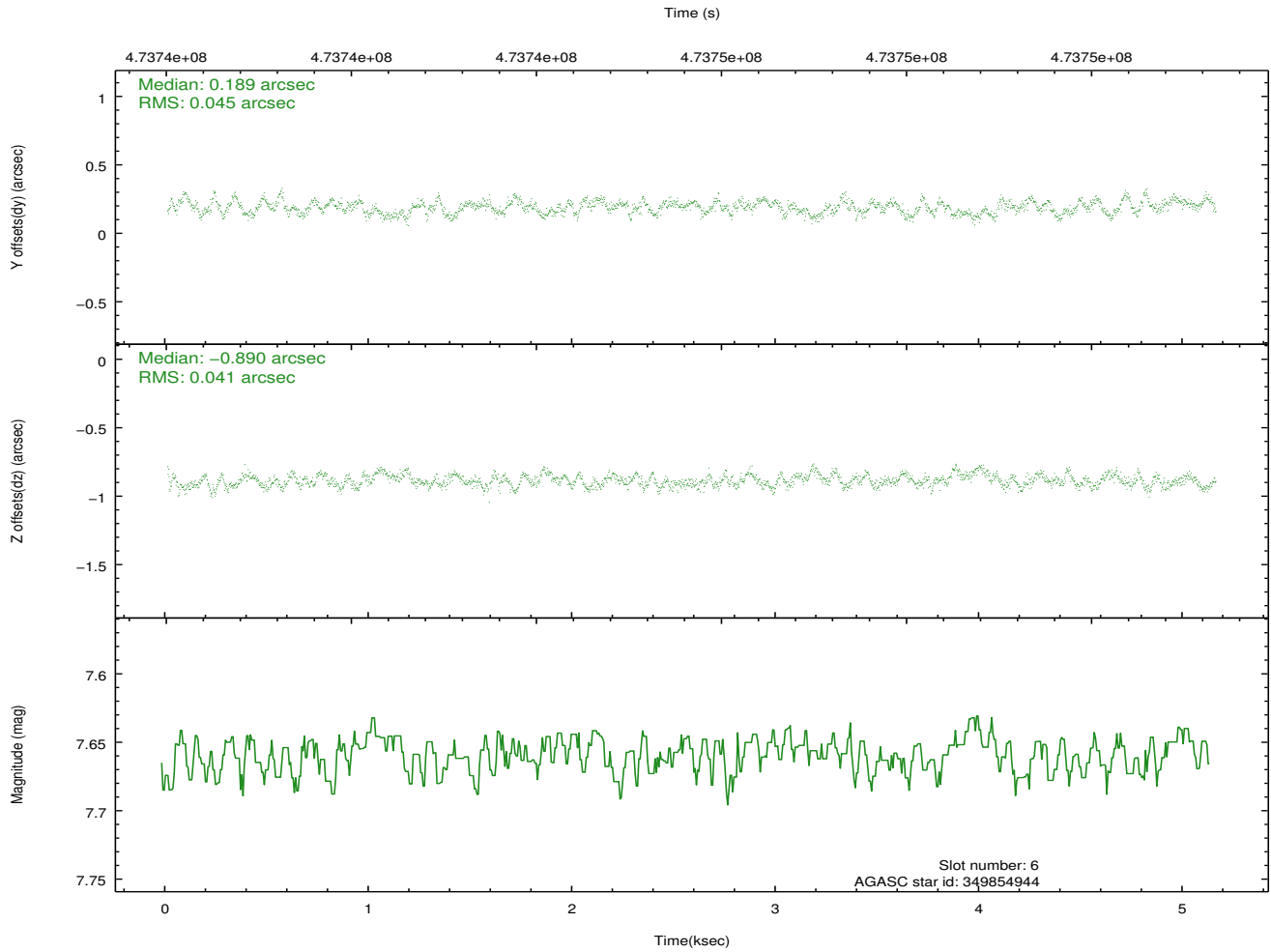
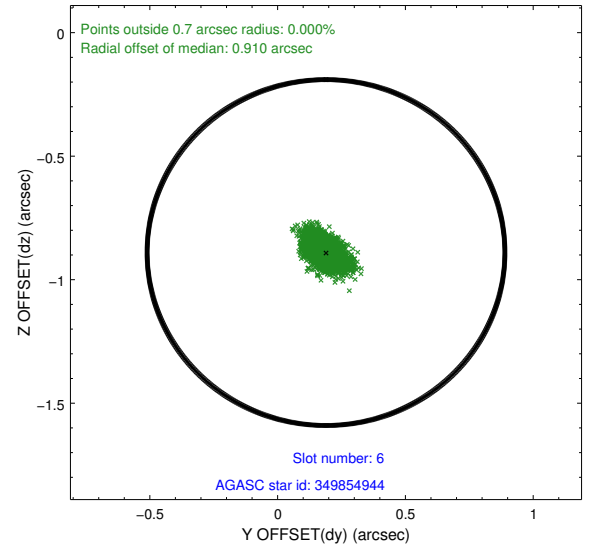
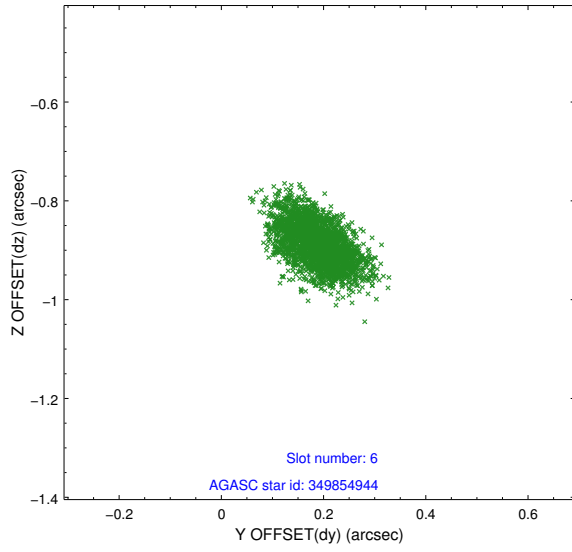
2.4.2 Slot 4



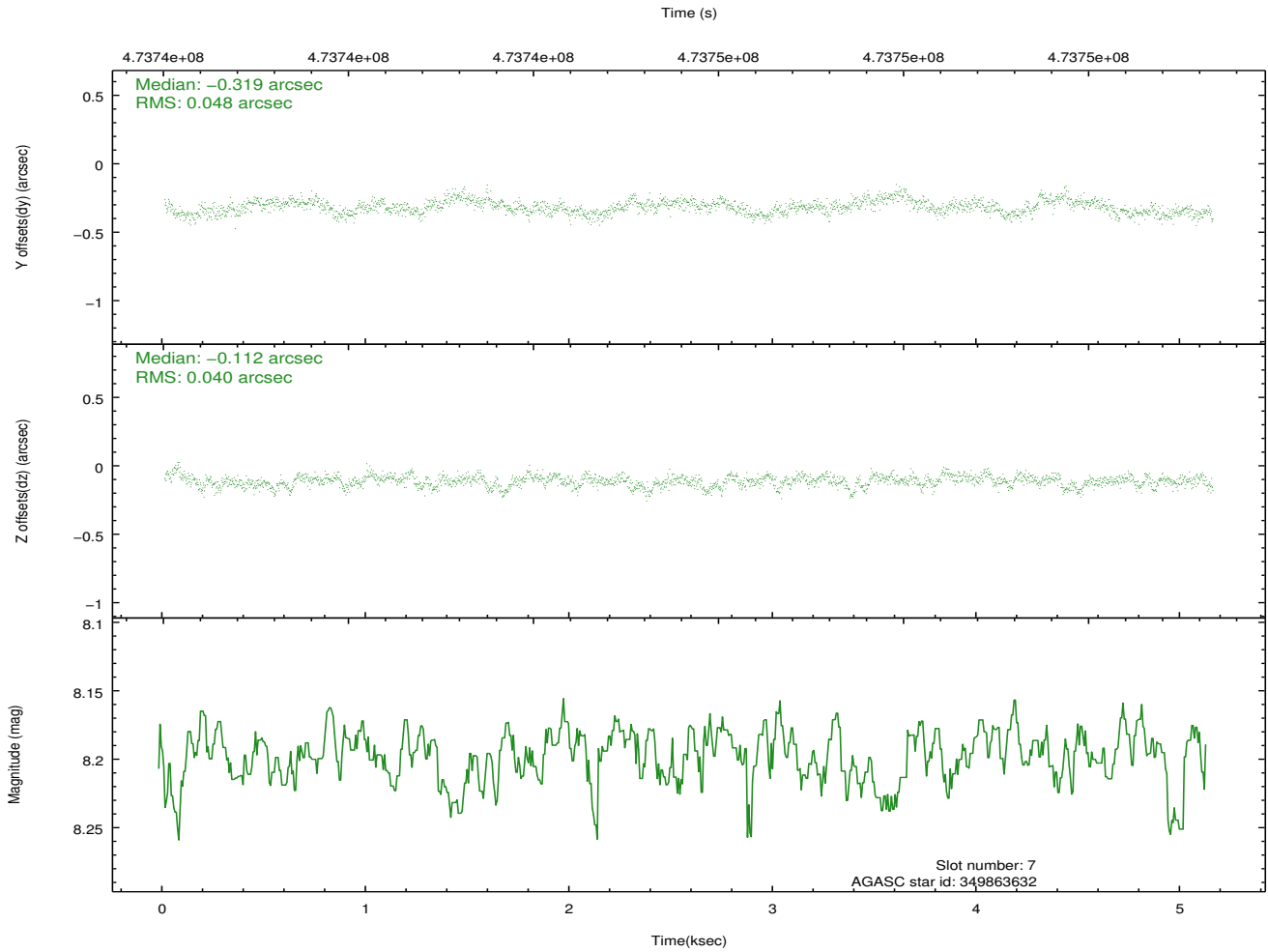
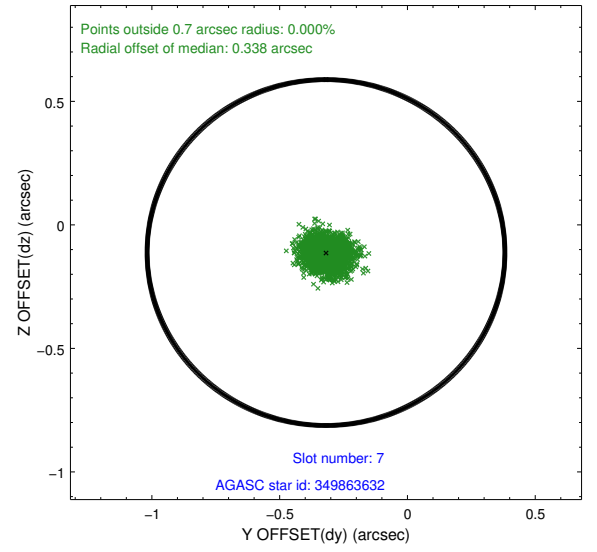
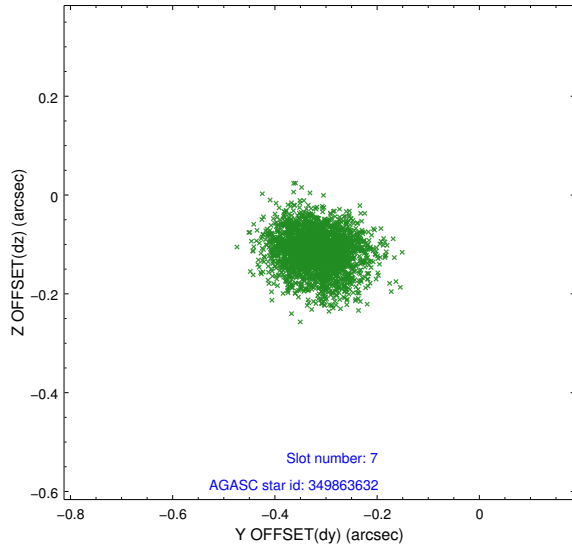
2.4.3 Slot 5



2.4.4 Slot 6

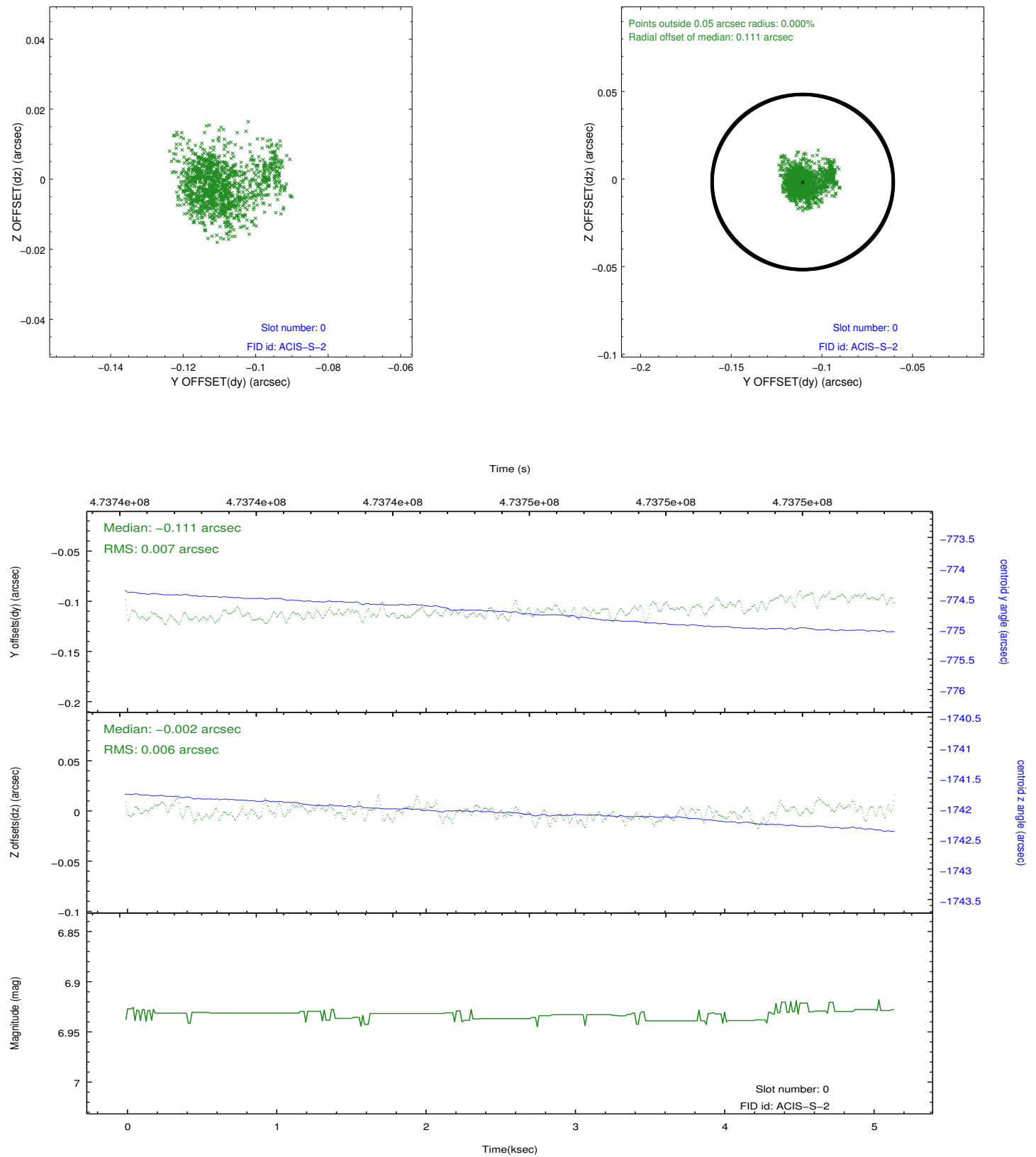


2.4.5 Slot 7

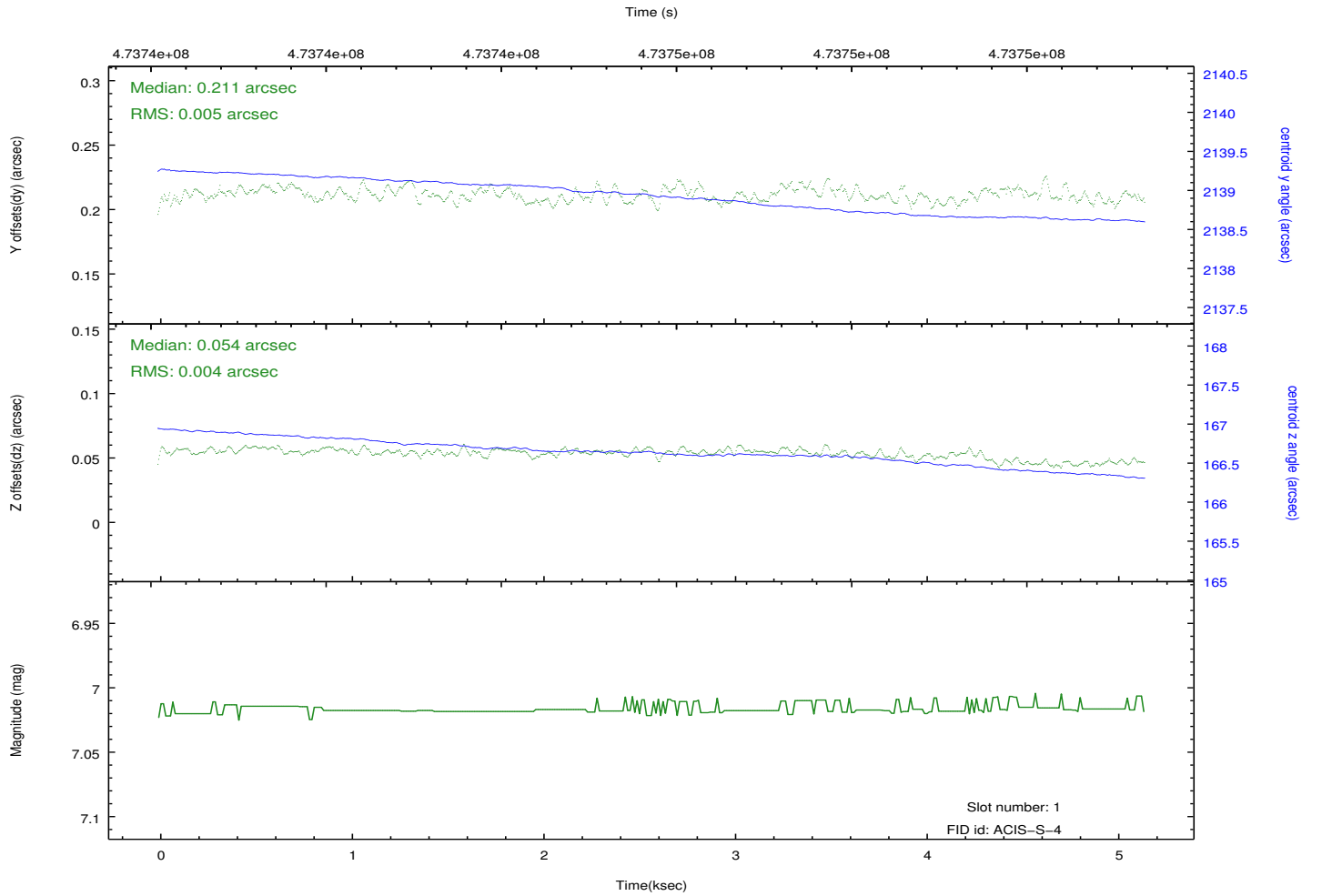
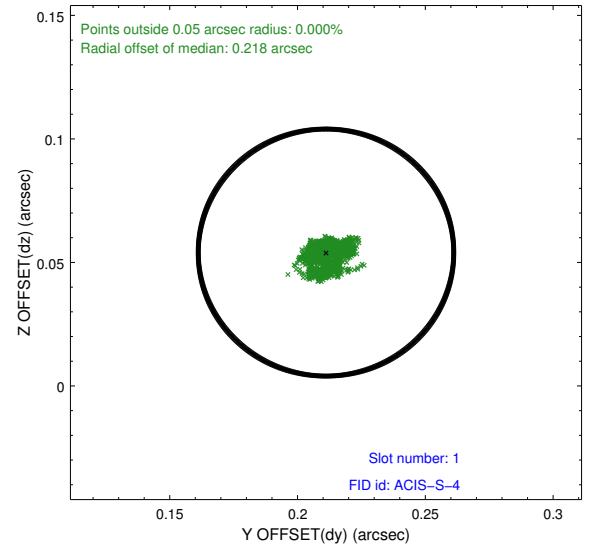
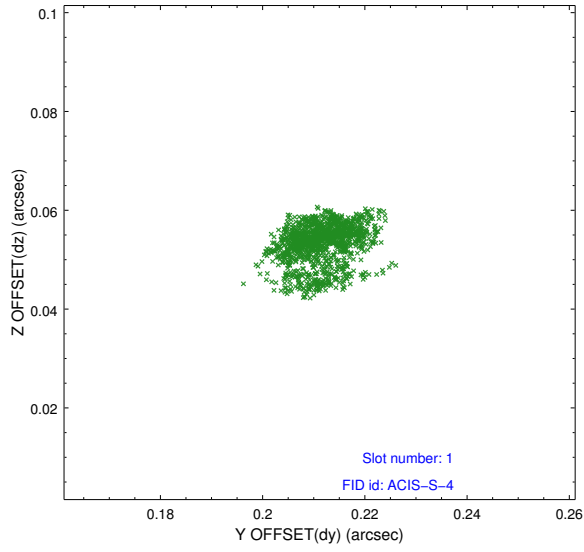


2.5 FID Slots

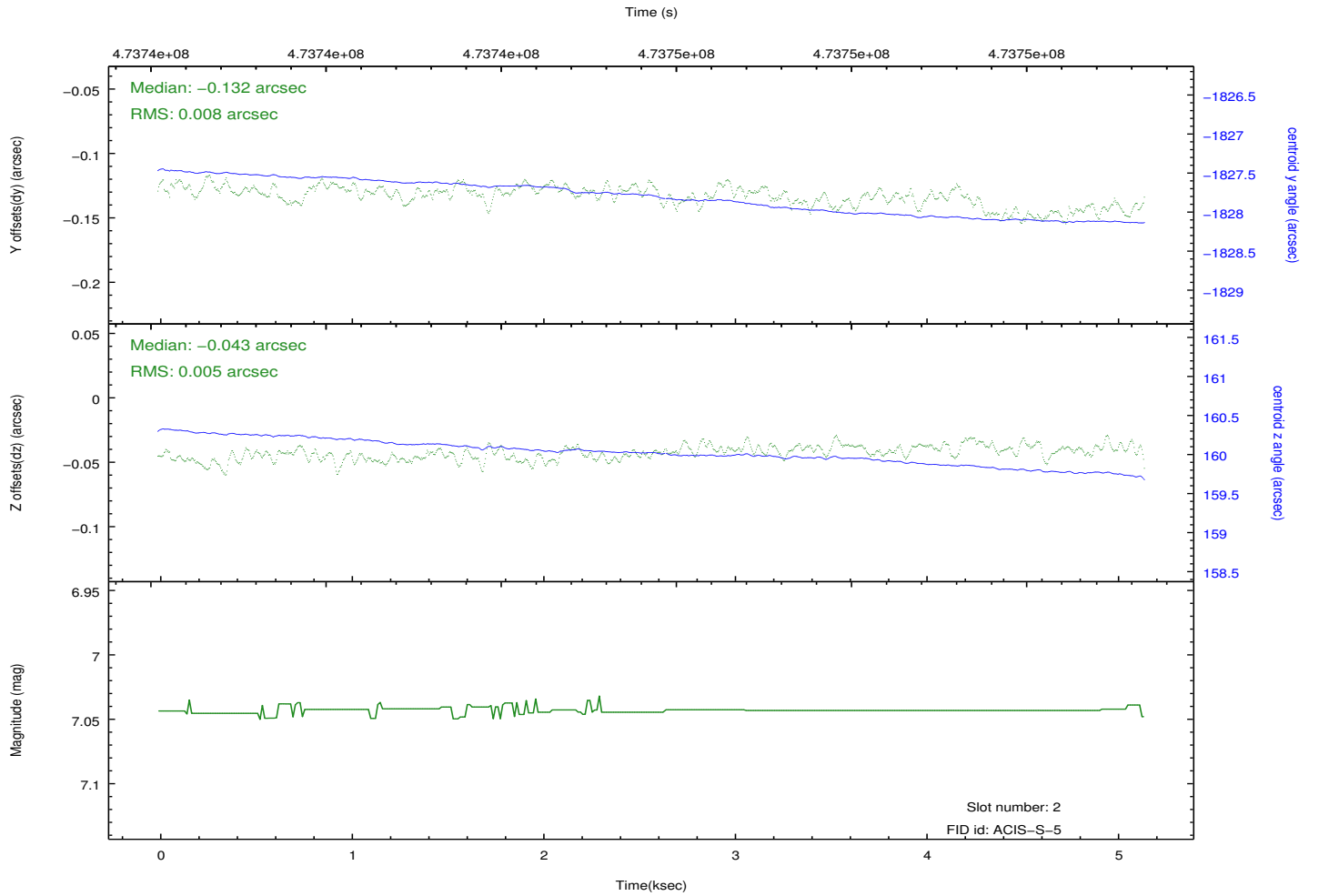
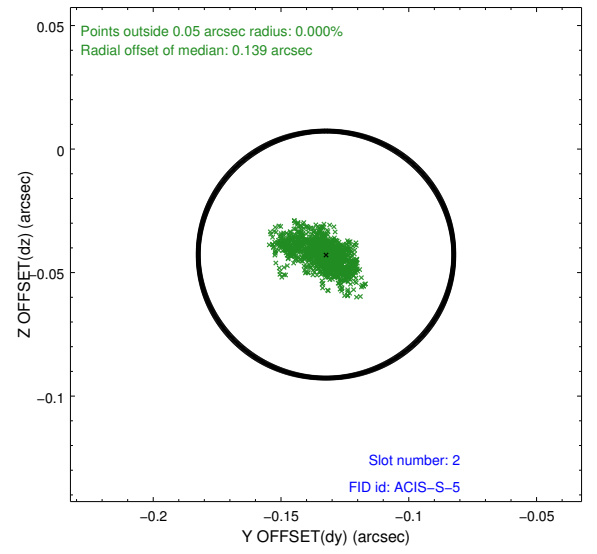
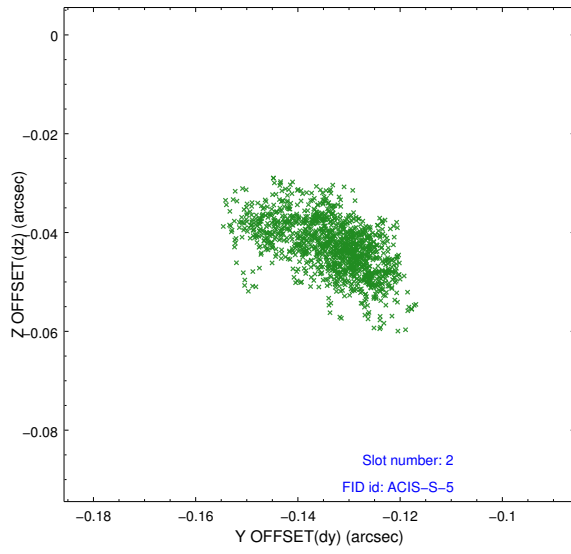
2.5.1 Slot 0



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)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0703996977806

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.