

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14648 - L2 Version 3
Chandra X-Ray Center

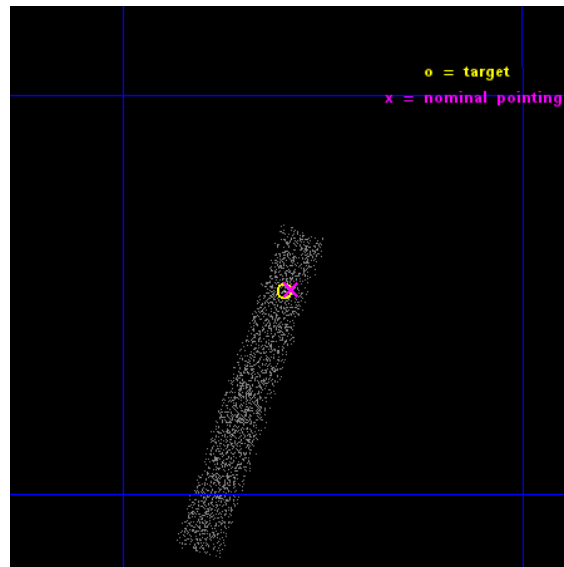
L2 Processing Date : Dec 2 2014

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1 Front

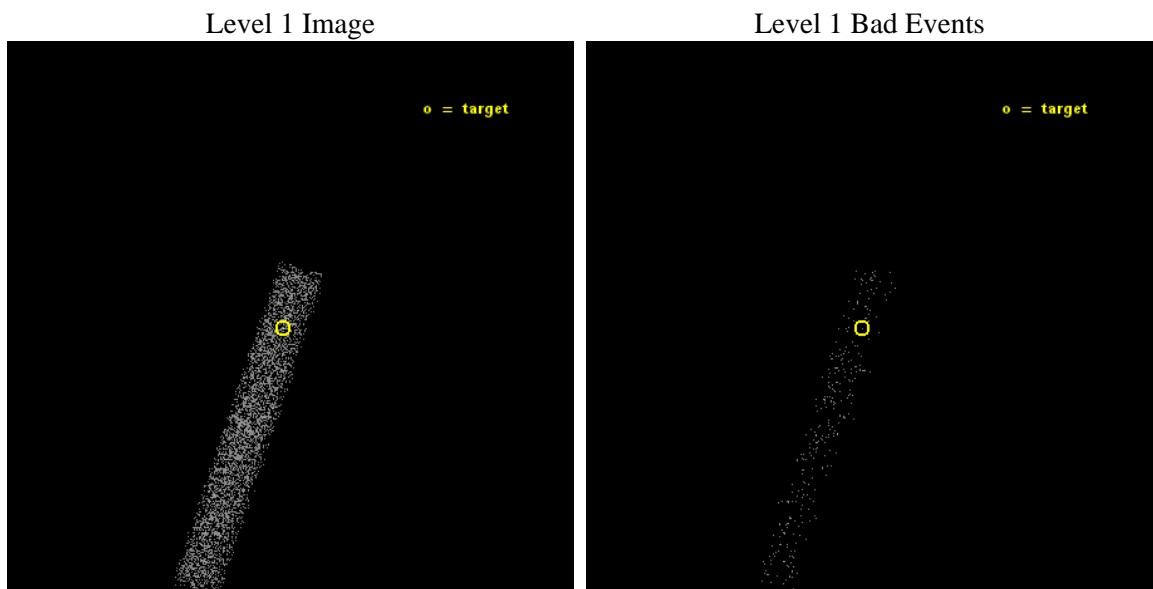
seq_num	401481	Sequence number
obs_id	14648	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	SAX J2103.5+4545	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	315.89875	Observer's specified target RA [deg]
dec_targ	45.751528	Observer's specified target Dec [deg]
ra_nom	315.89450942583	Nominal RA [deg]
dec_nom	45.752296449011	Nominal Dec [deg]
roll_nom	109.17499362863	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5069.8908389807	Sum of GTIs [s]
livetime	4598.1233801748	Livetime [s]
ontime7	5069.8908389807	Sum of GTIs [s]
l2events	2696	Number of level 2 events



2 OBI

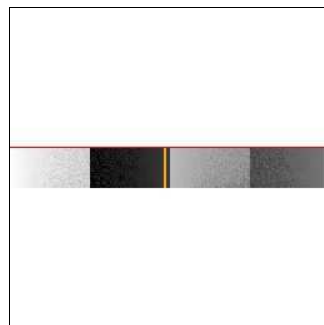
2.1 OBI

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	5069.8908389807	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	5069.8908389807	Sum of GTIs [s]
date	2014-12-03T03:51:16	Date and time of file creation	l1events	5182	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

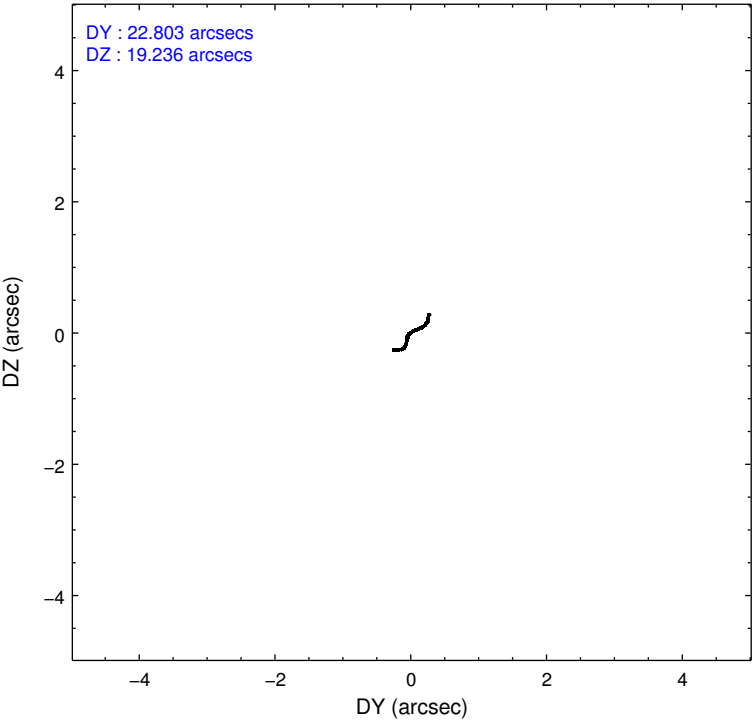
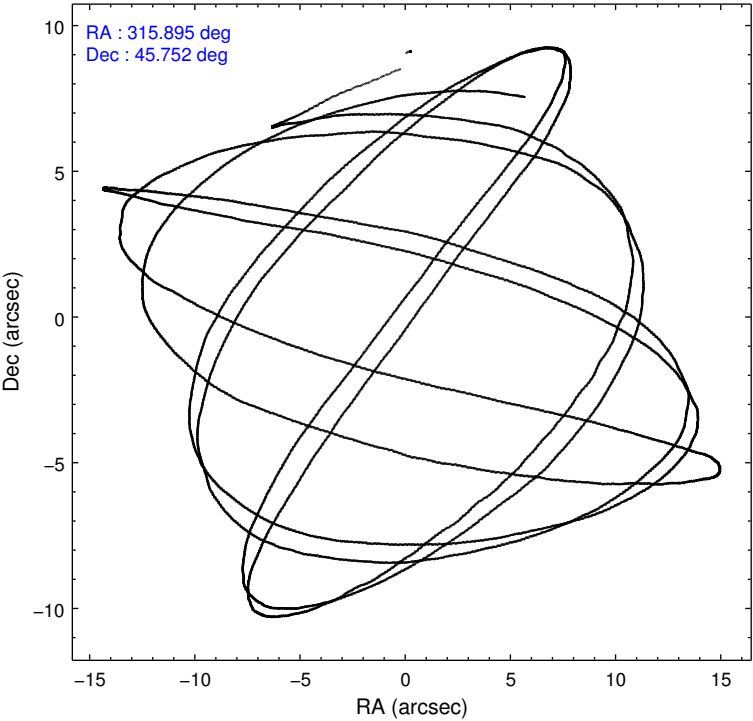
	ccd 7
level 1 events	5182
rejected events	2384
rejected %	46%

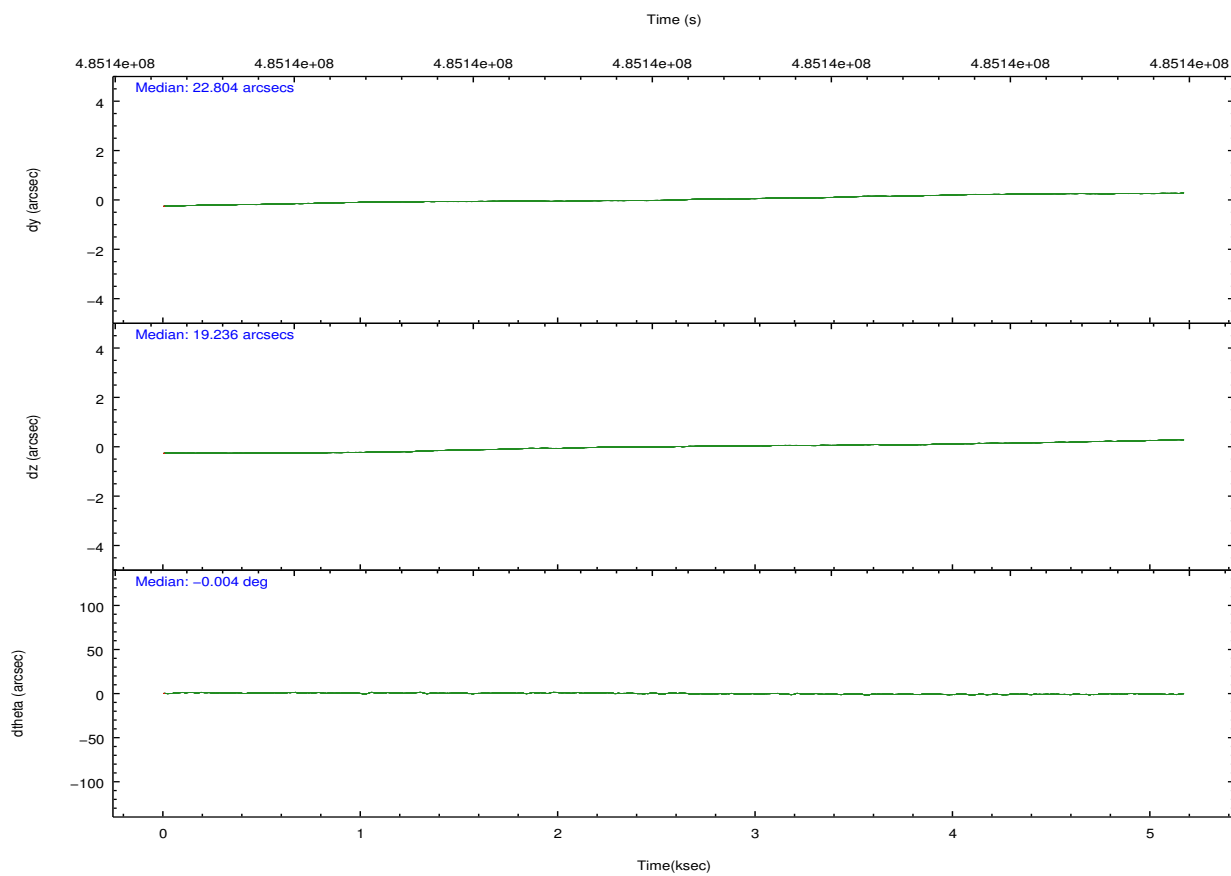
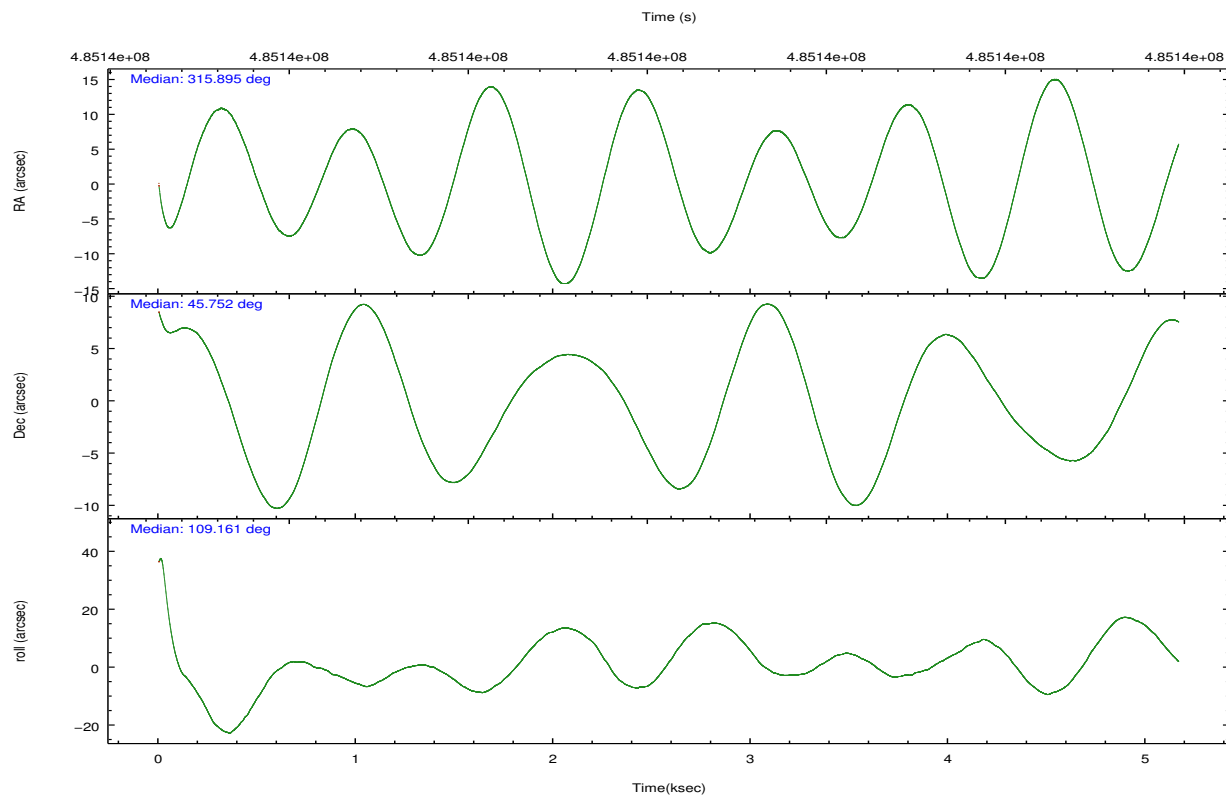
	ccd 7
grade 0 events	339
	6%
grade 1 events	9
	0%
grade 2 events	576
	11%
grade 3 events	356
	6%
grade 4 events	325
	6%
grade 5 events	465
	8%
grade 6 events	1203
	23%
grade 7 events	1909
	36%

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	315.924522	315.8945094258348	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	45.734624	45.75229644901093	Subarray start row	449	449
[deg] Pointing Roll	108.996766	109.1749936286327	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)	485138699.184000	485137246.11414			
Observation start date	2013-05-17T00:43:52	2013-05-17T00:20:46			
[s] Observation end time (MET)	485143699.184000	485144140.77701			
Observation end date	2013-05-17T02:07:12	2013-05-17T02:15:40			
Read mode	TIMED	TIMED			

2.3 Aspect



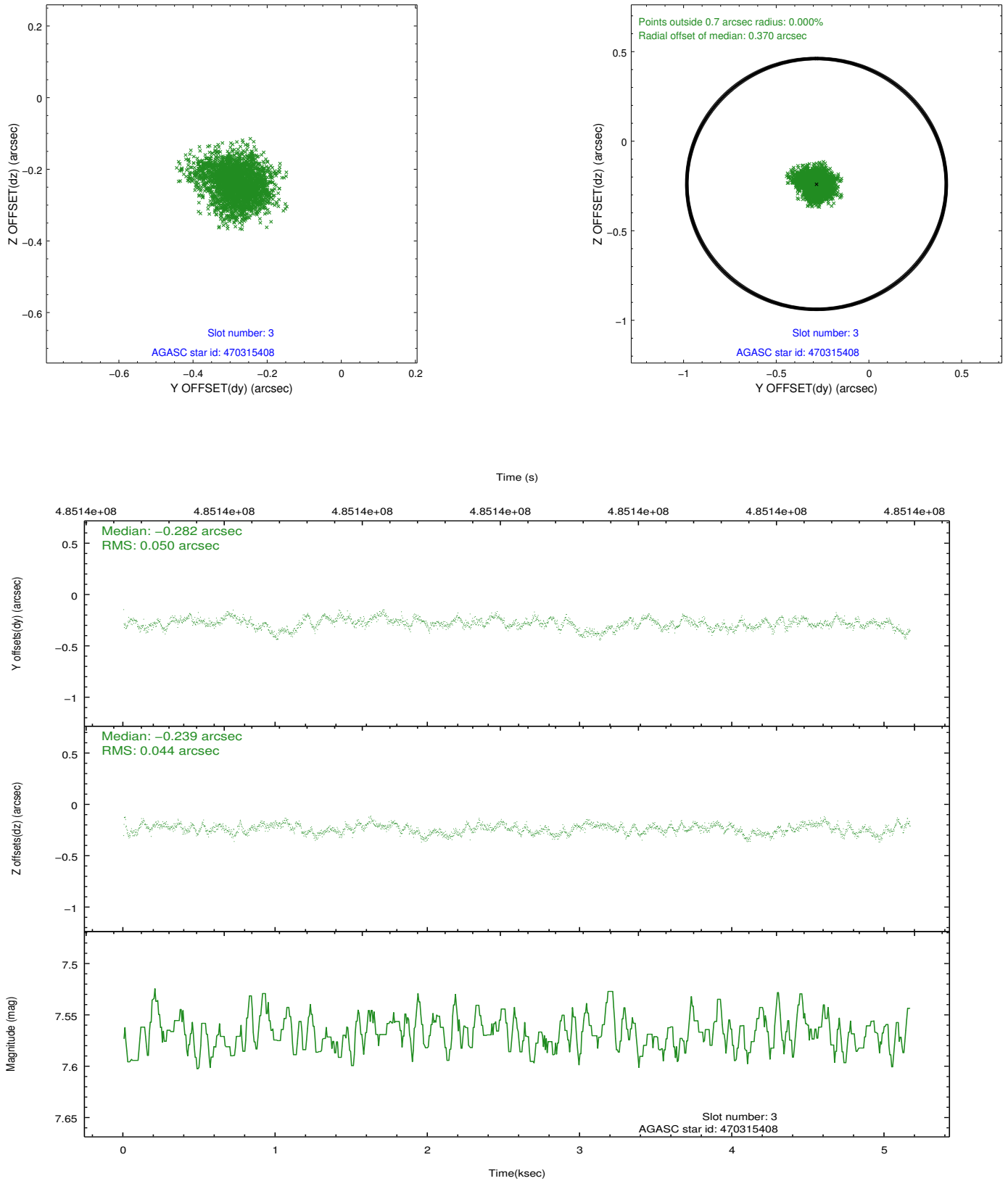


Slot Statistics

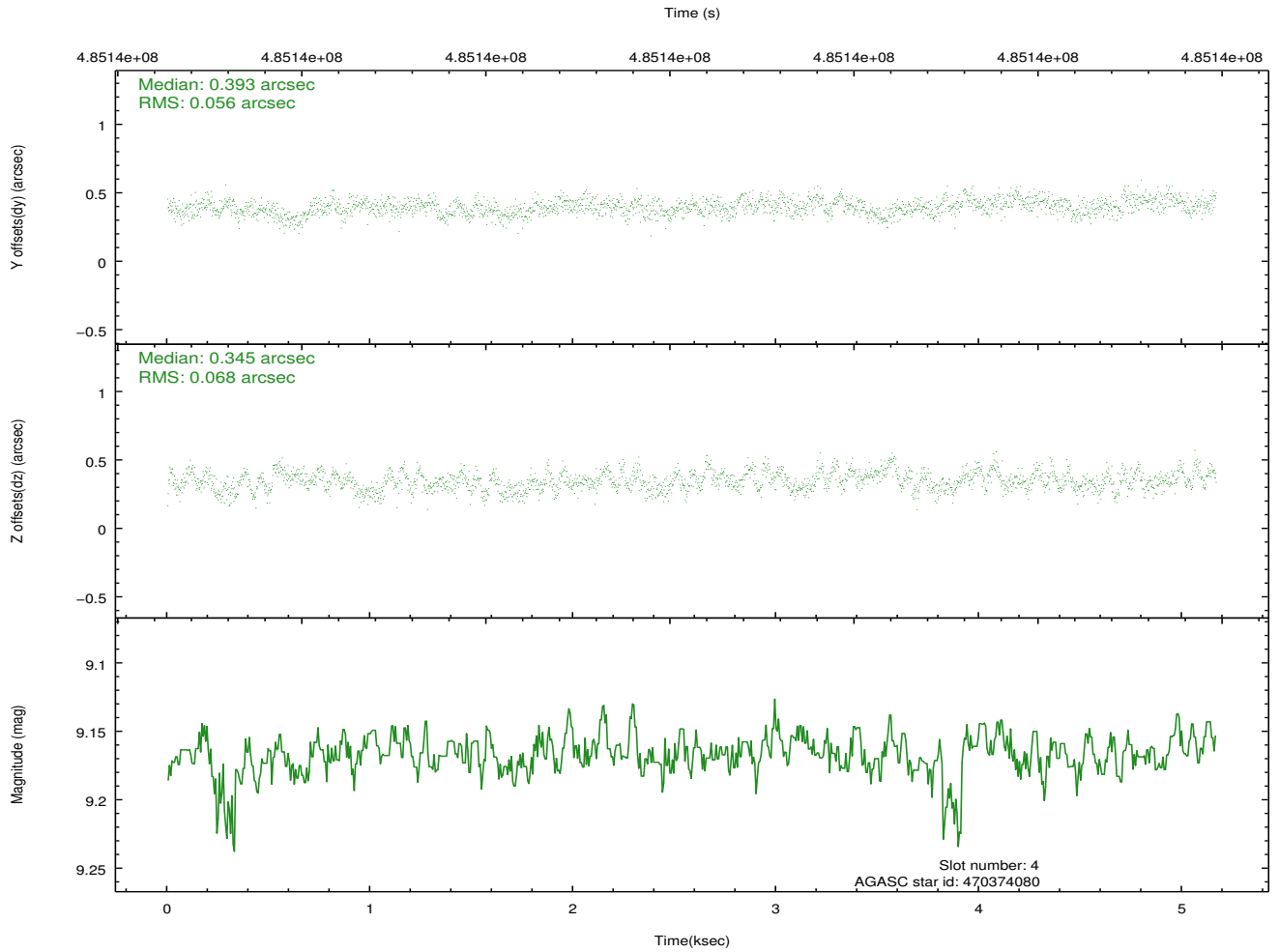
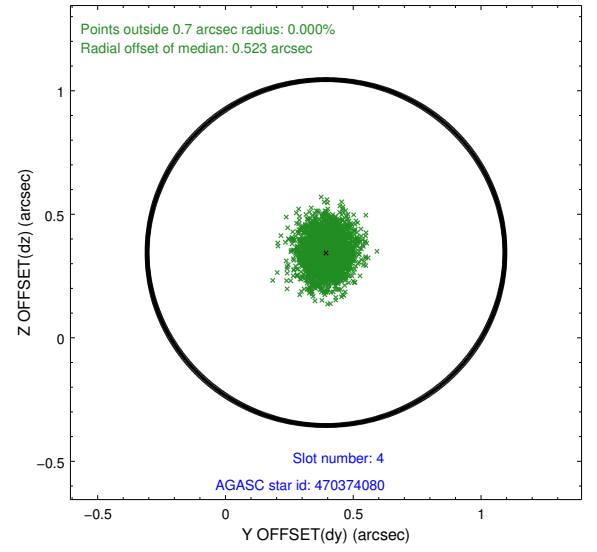
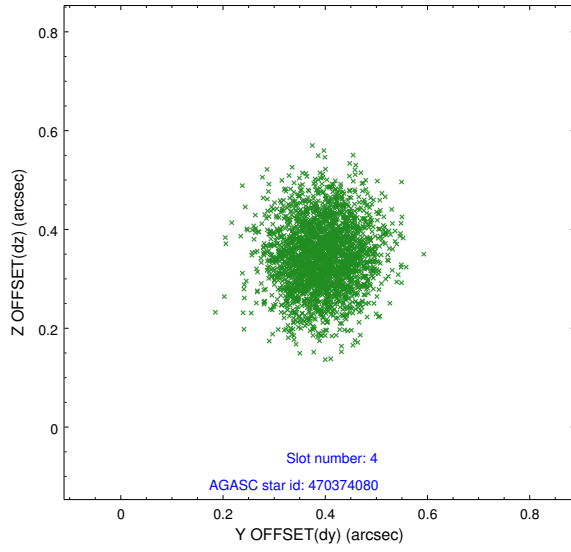
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	1261	-0.117	-0.034	0.015	0.022	0.000000	0.000000	-776.13	-1740.70
1	FID		ACIS-S-4	7.02	1260	0.281	0.066	0.008	0.016	0.000000	0.000000	2137.00	166.68
2	FID		ACIS-S-5	7.05	1261	-0.196	-0.024	0.014	0.020	0.000000	0.000000	-1827.56	161.58
3	GUIDE	used	470315408	7.57	2521	-0.282	-0.239	0.072	0.111	315.669796	45.884771	719.49	422.41
4	GUIDE	used	470374080	9.17	2521	0.393	0.345	0.094	0.152	316.594149	45.270518	-2124.44	-1061.75
5	GUIDE	used	470381320	8.14	2520	0.102	0.113	0.080	0.127	316.040529	45.156229	-2065.33	399.32
6	GUIDE	used	470383240	7.05	2520	-0.182	0.005	0.096	0.156	315.702579	45.848891	569.75	393.18
7	GUIDE	used	416809744	8.70	2517	-0.029	-0.221	0.088	0.153	315.545239	44.944493	-2373.08	1839.29

2.4 Star Slots

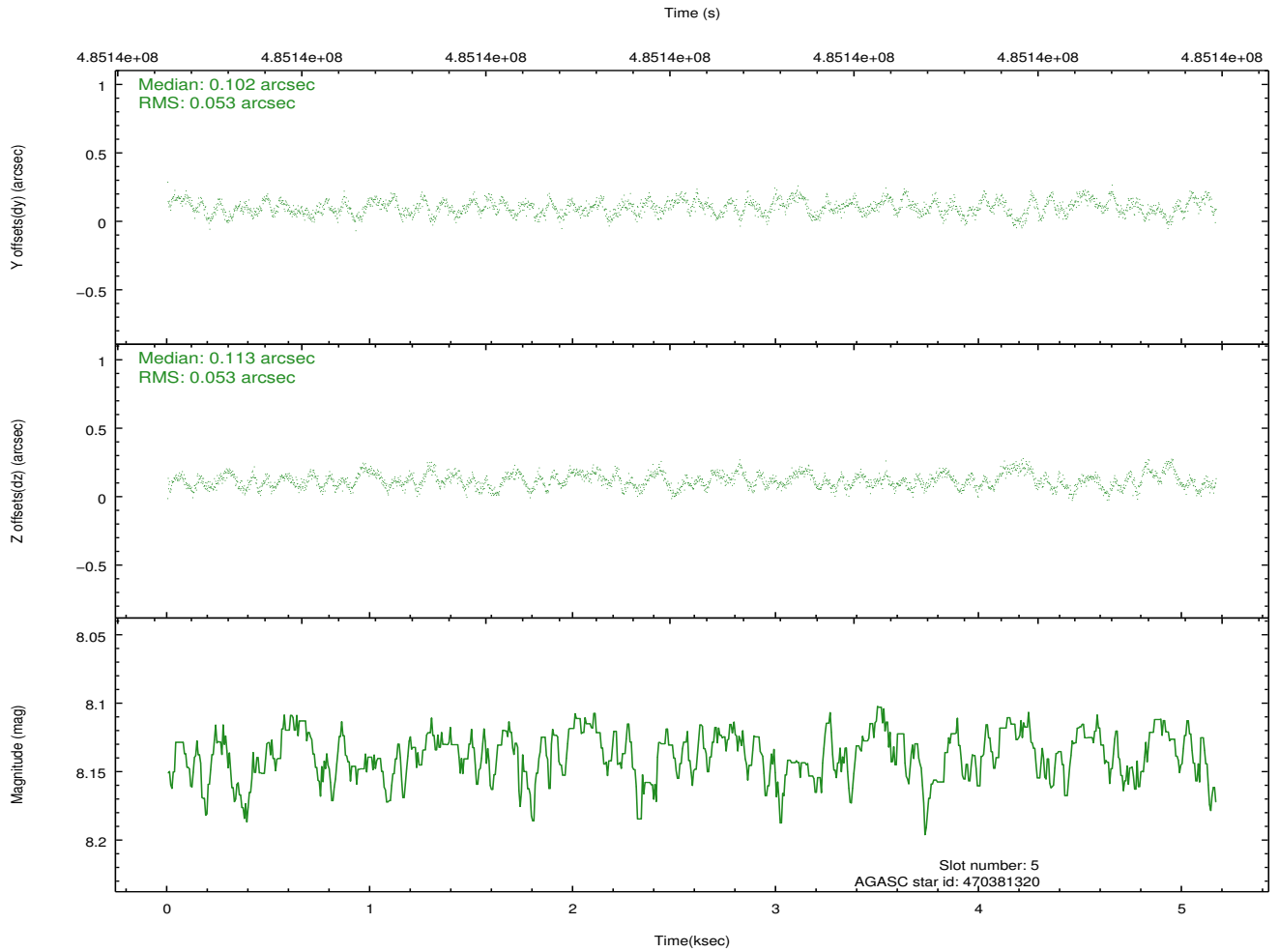
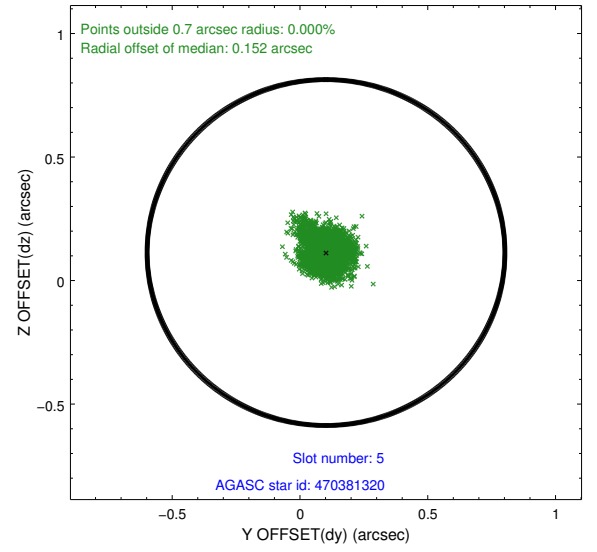
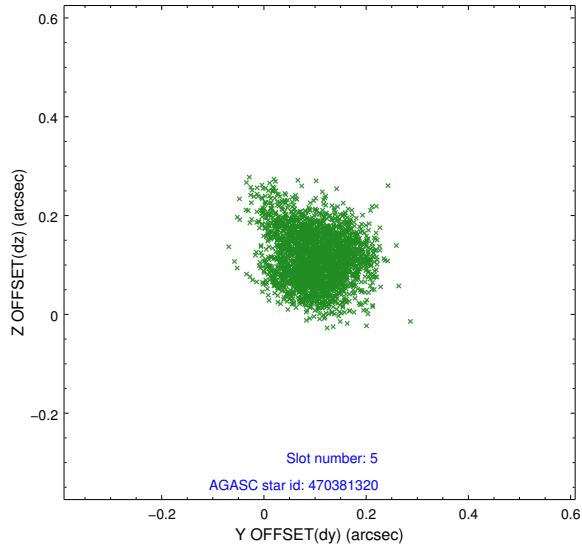
2.4.1 Slot 3



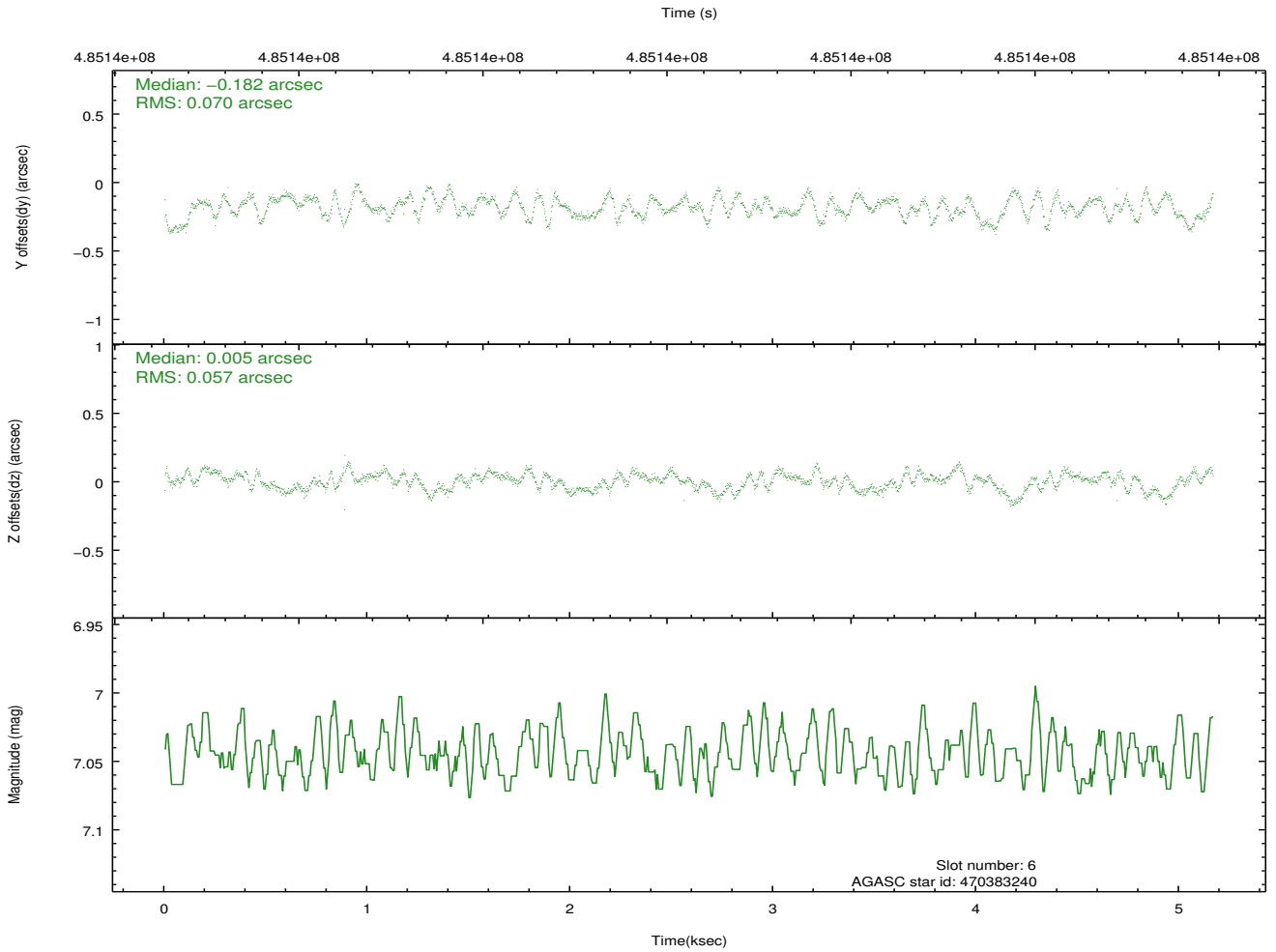
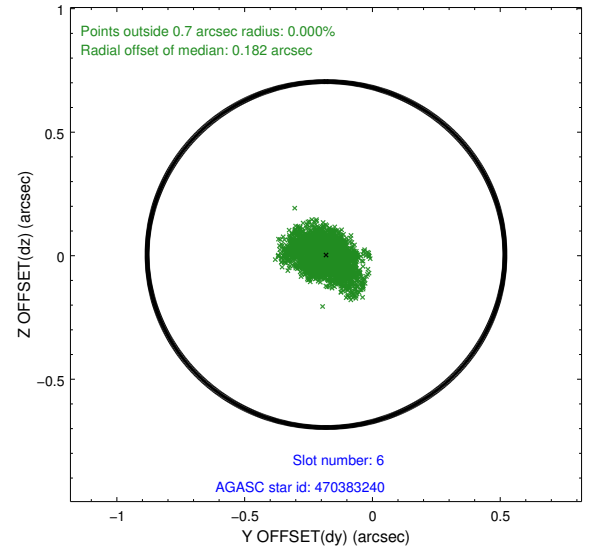
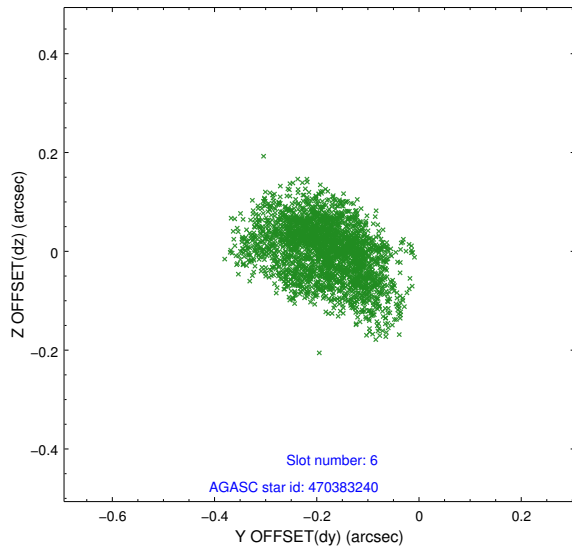
2.4.2 Slot 4



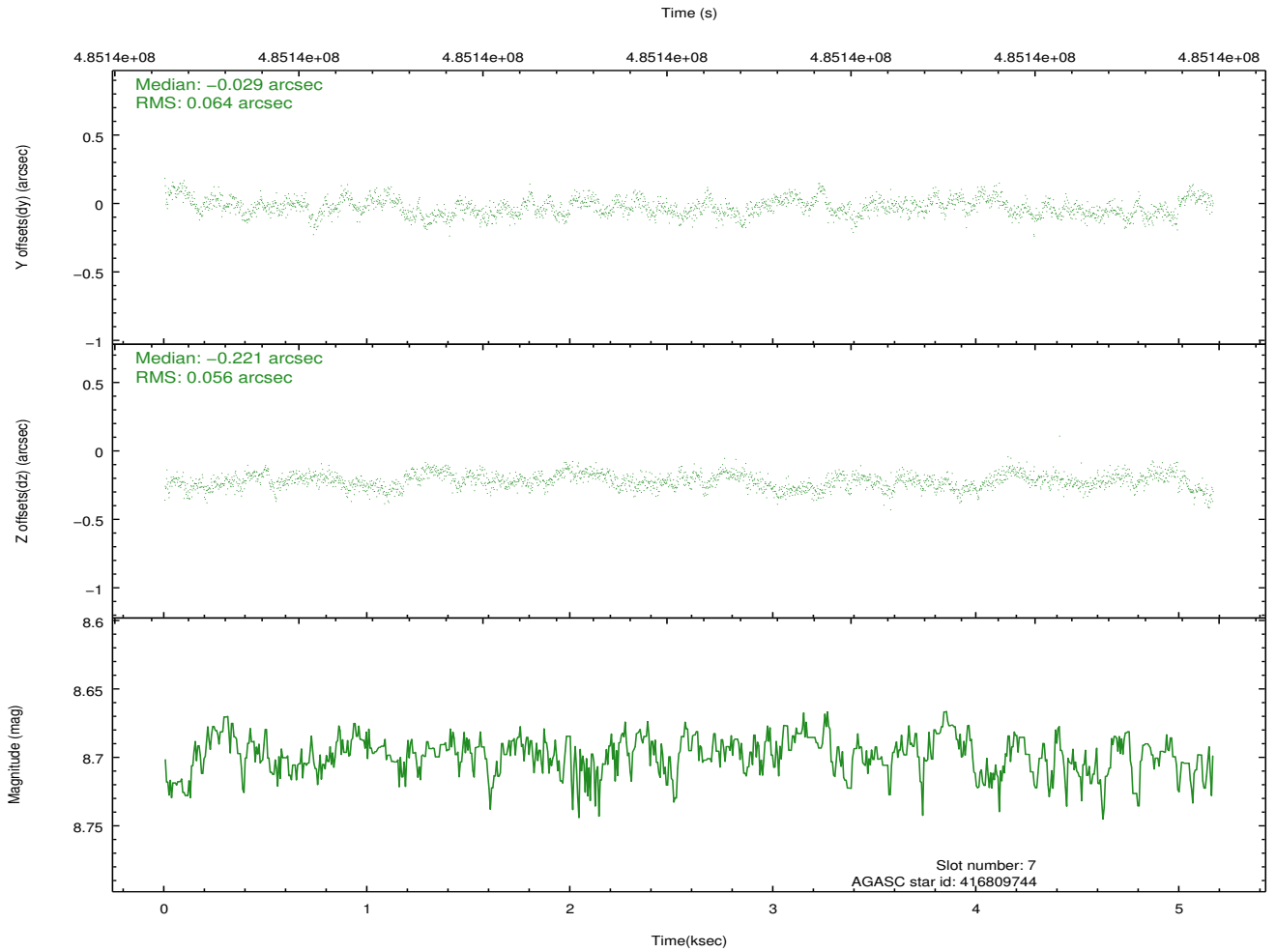
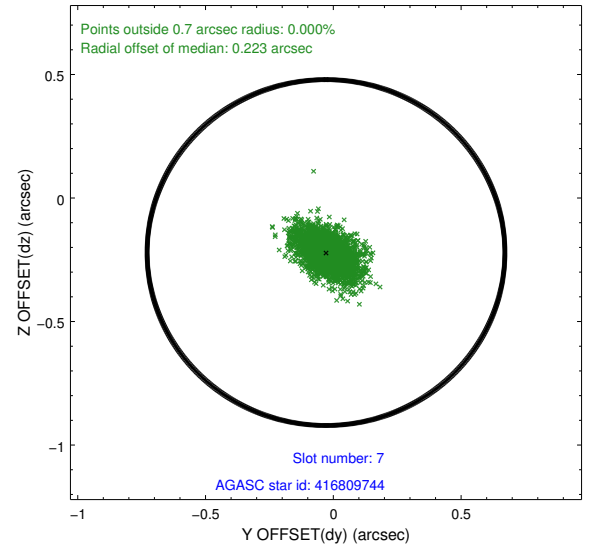
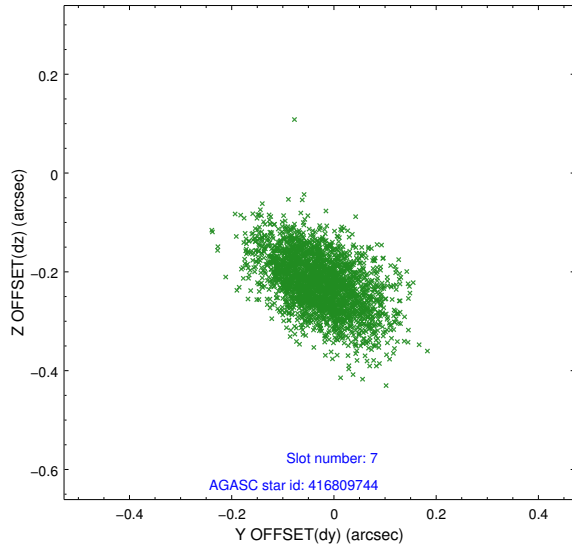
2.4.3 Slot 5



2.4.4 Slot 6

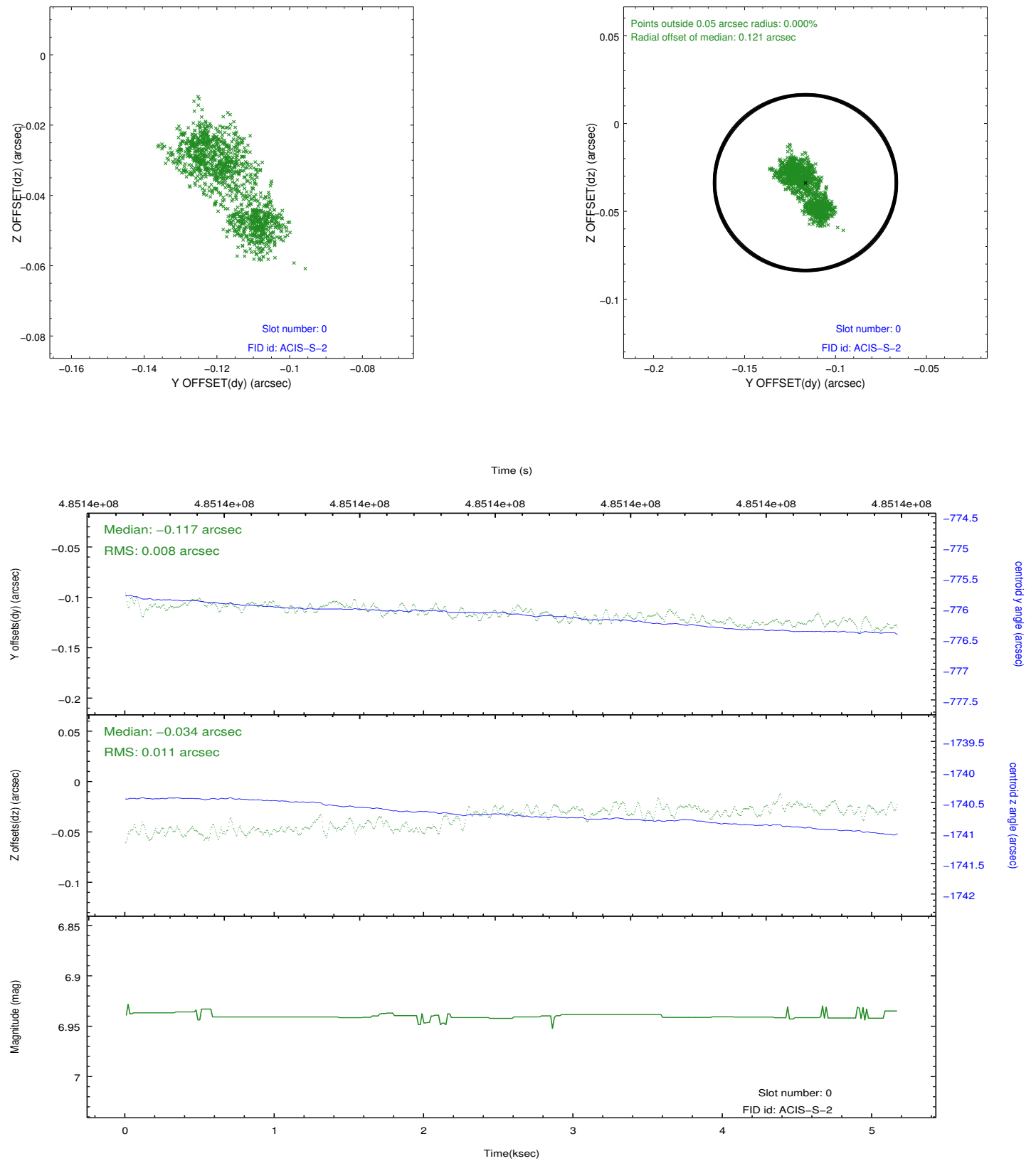


2.4.5 Slot 7

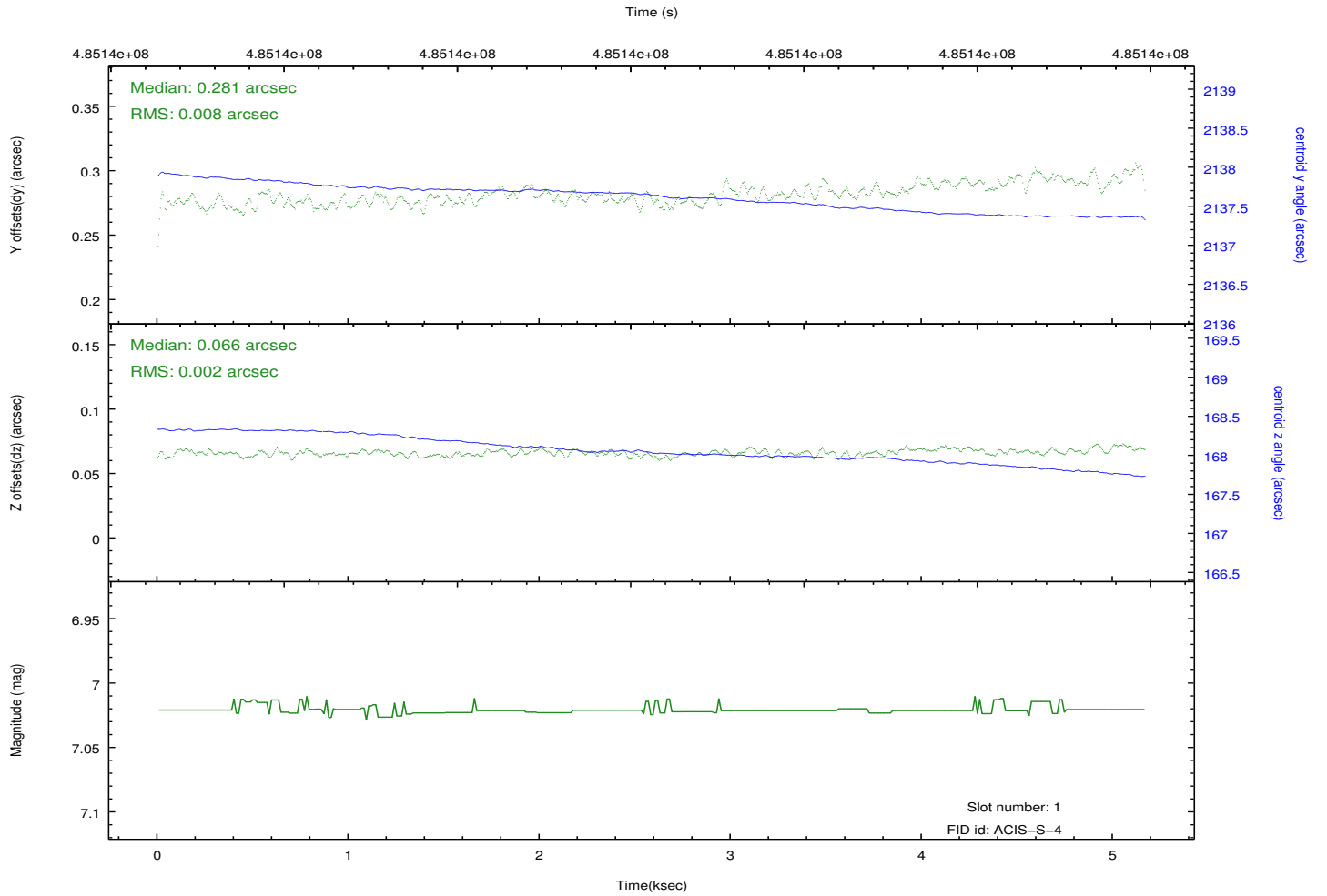
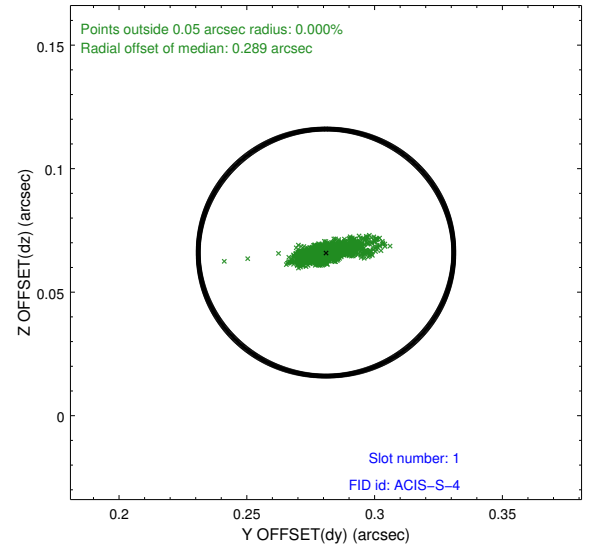
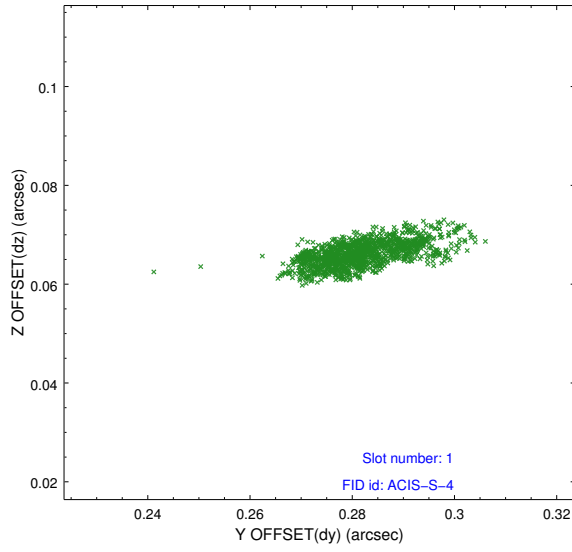


2.5 FID Slots

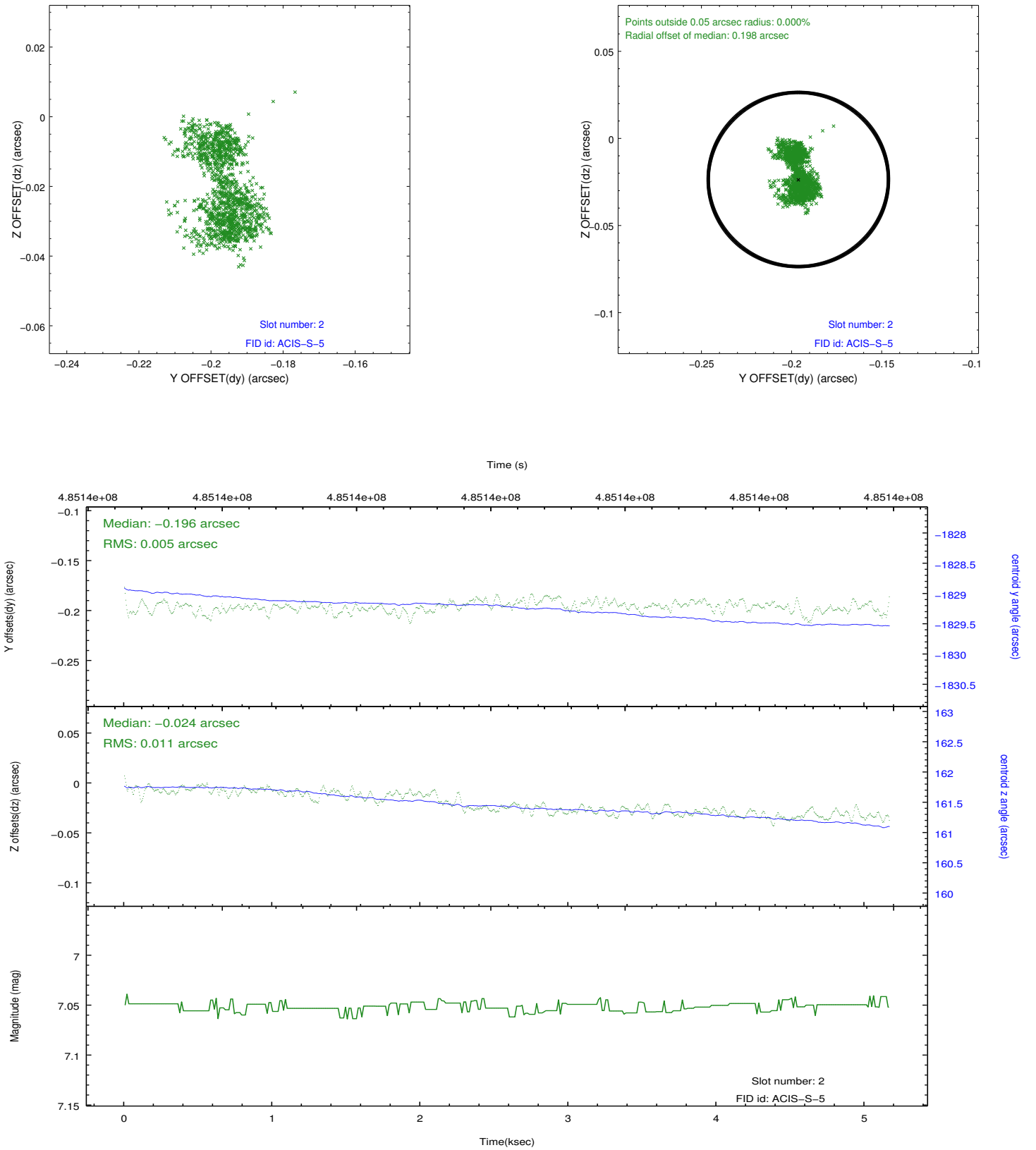
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0698908389807

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.