

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15339 - L2 Version 2
Chandra X-Ray Center

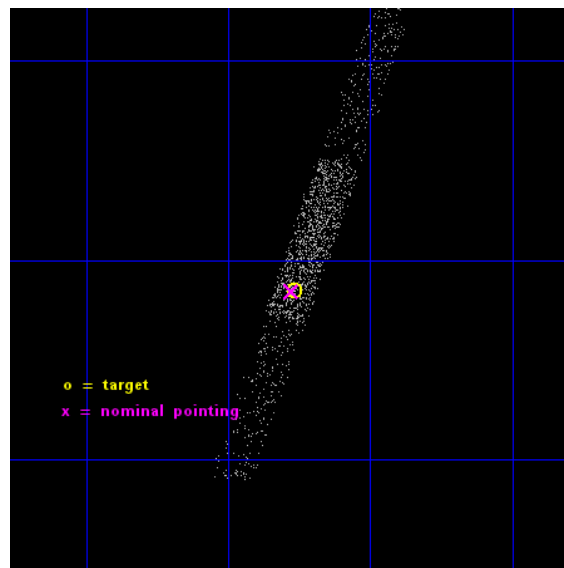
L2 Processing Date : Nov 29 2014

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1 Front

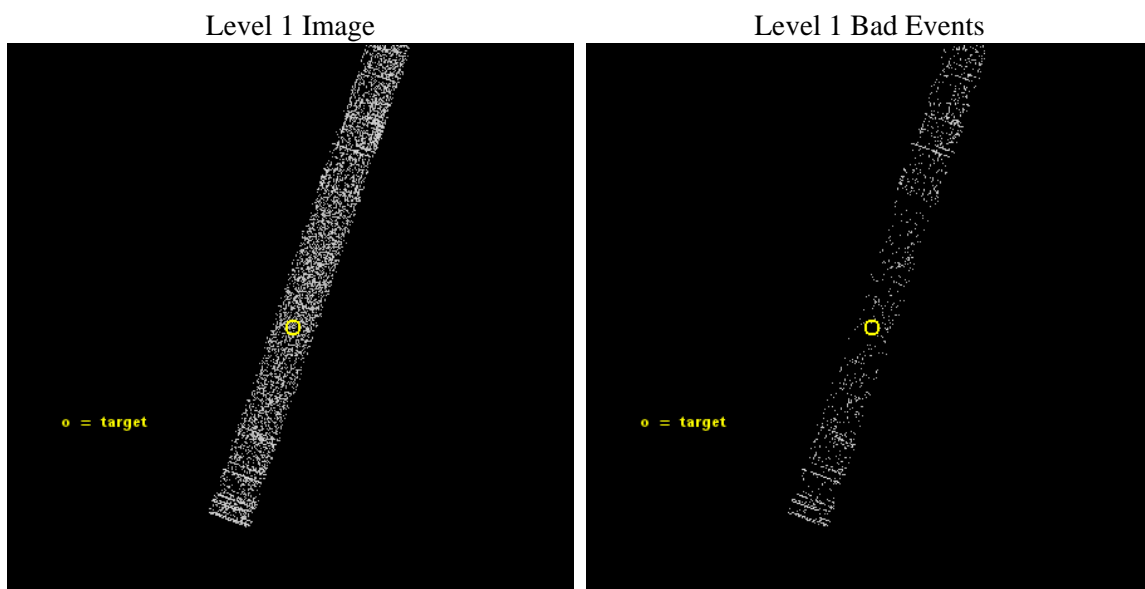
seq_num	702899	Sequence number
obs_id	15339	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J2124-0741	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	321.066667	Observer's specified target RA [deg]
dec_targ	-7.691639	Observer's specified target Dec [deg]
ra_nom	321.06940600486	Nominal RA [deg]
dec_nom	-7.6925559336393	Nominal Dec [deg]
roll_nom	289.31848223052	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1592.9999577999	Sum of GTIs [s]
livetime	1523.5271210787	Livetime [s]
ontime6	1592.9999577999	Sum of GTIs [s]
ontime7	1592.9999577999	Sum of GTIs [s]
ontime8	1592.9999577999	Sum of GTIs [s]
l2events	1587	Number of level 2 events



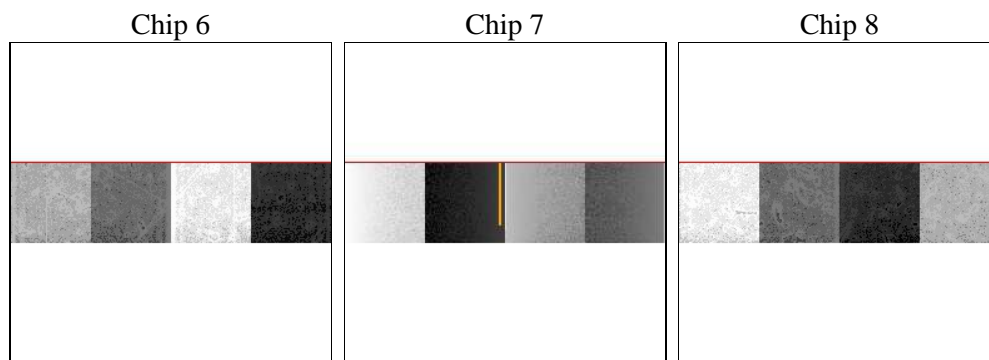
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1592.9999577999	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	1592.9999577999	Sum of GTIs [s]
date	2014-11-29T14:54:00	Date and time of file creation	ontime7	1592.9999577999	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1592.9999577999	Sum of GTIs [s]
			l1events	7917	Number of level 1 events

2.1.4 Events

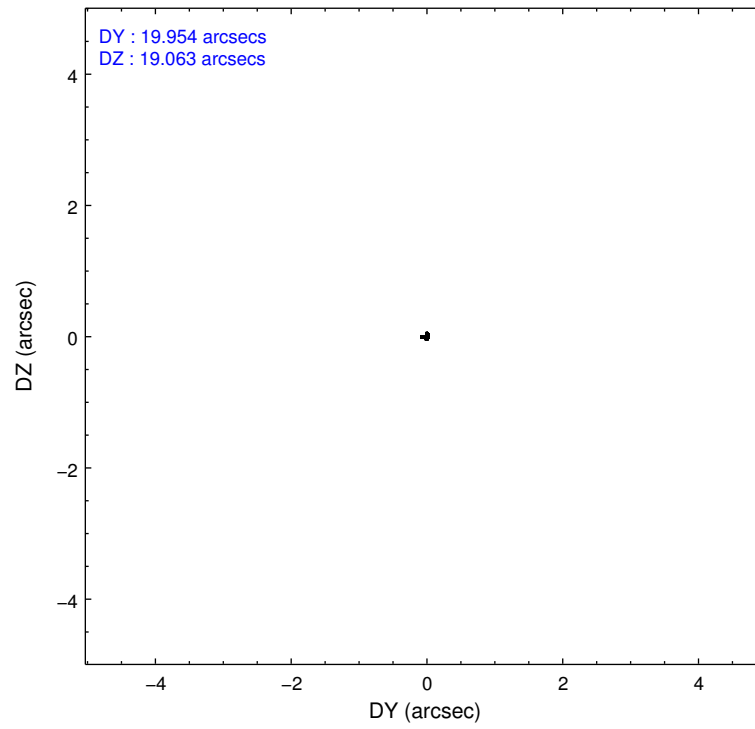
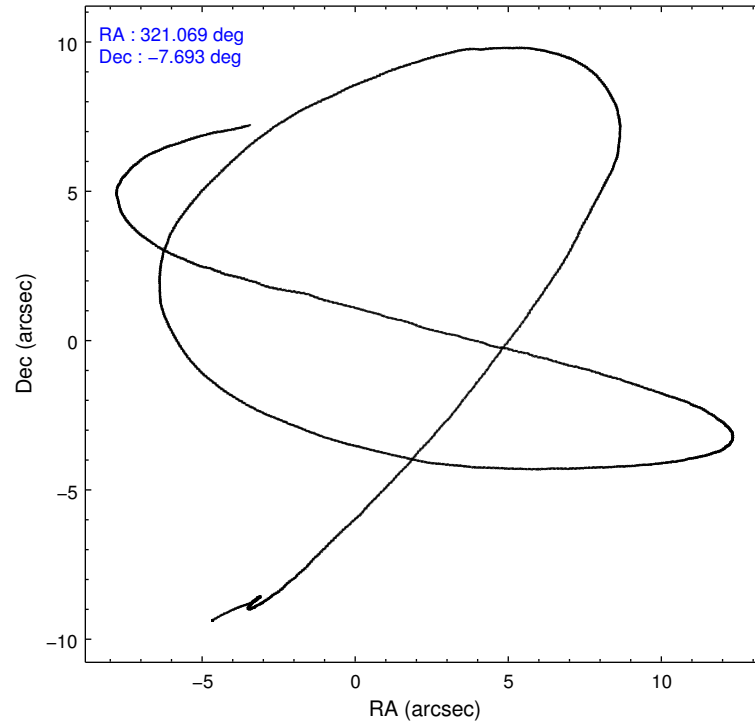
	ccd 6	ccd 7	ccd 8
level 1 events	2510	2421	2986
rejected events	2241	1254	2356
rejected %	89%	51%	78%

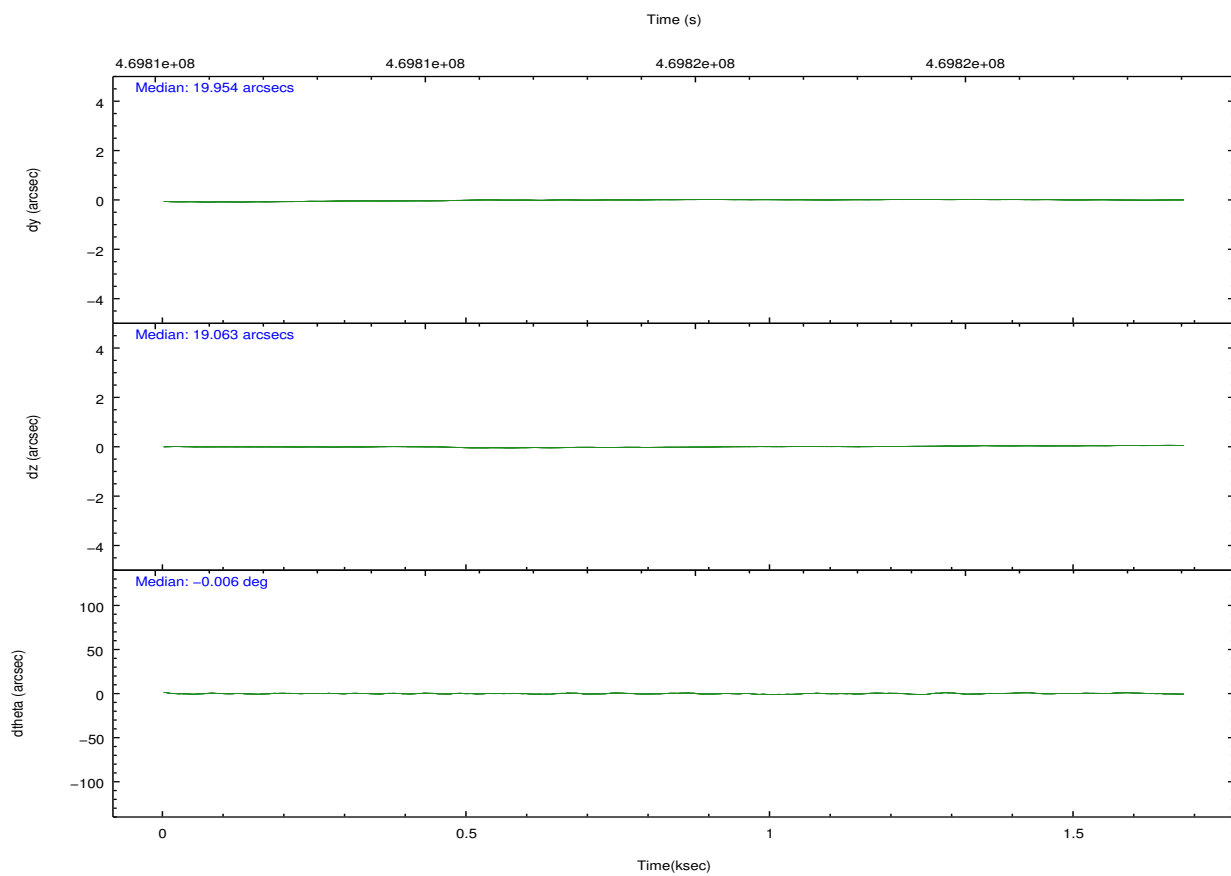
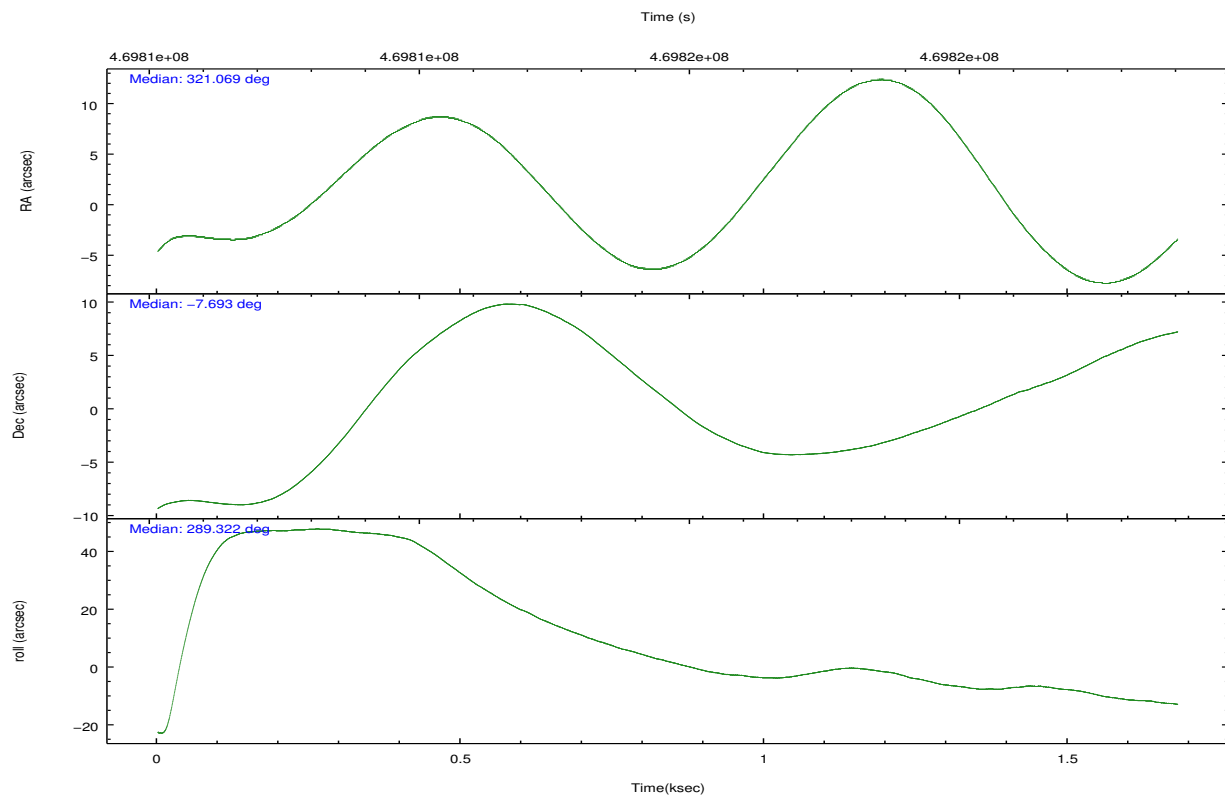
	ccd 6	ccd 7	ccd 8
grade 0 events	104	136	168
	4%	5%	5%
grade 1 events	2	6	5
	0%	0%	0%
grade 2 events	43	251	149
	1%	10%	4%
grade 3 events	41	138	70
	1%	5%	2%
grade 4 events	34	123	67
	1%	5%	2%
grade 5 events	89	272	120
	3%	11%	4%
grade 6 events	47	521	178
	1%	21%	5%
grade 7 events	2150	974	2229
	85%	40%	74%

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	321.048476	321.0694060048602	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-7.674792	-7.692555933639298	Subarray start row	385	385
[deg] Pointing Roll	289.159490	289.3184822305224	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)	469814294.184000	469813393.81148			
Observation start date	2012-11-20T15:57:07	2012-11-20T15:43:13			
[s] Observation end time (MET)	469815794.184000	469816589.24915			
Observation end date	2012-11-20T16:22:07	2012-11-20T16:36:29			
Read mode	TIMED	TIMED			

2.3 Aspect



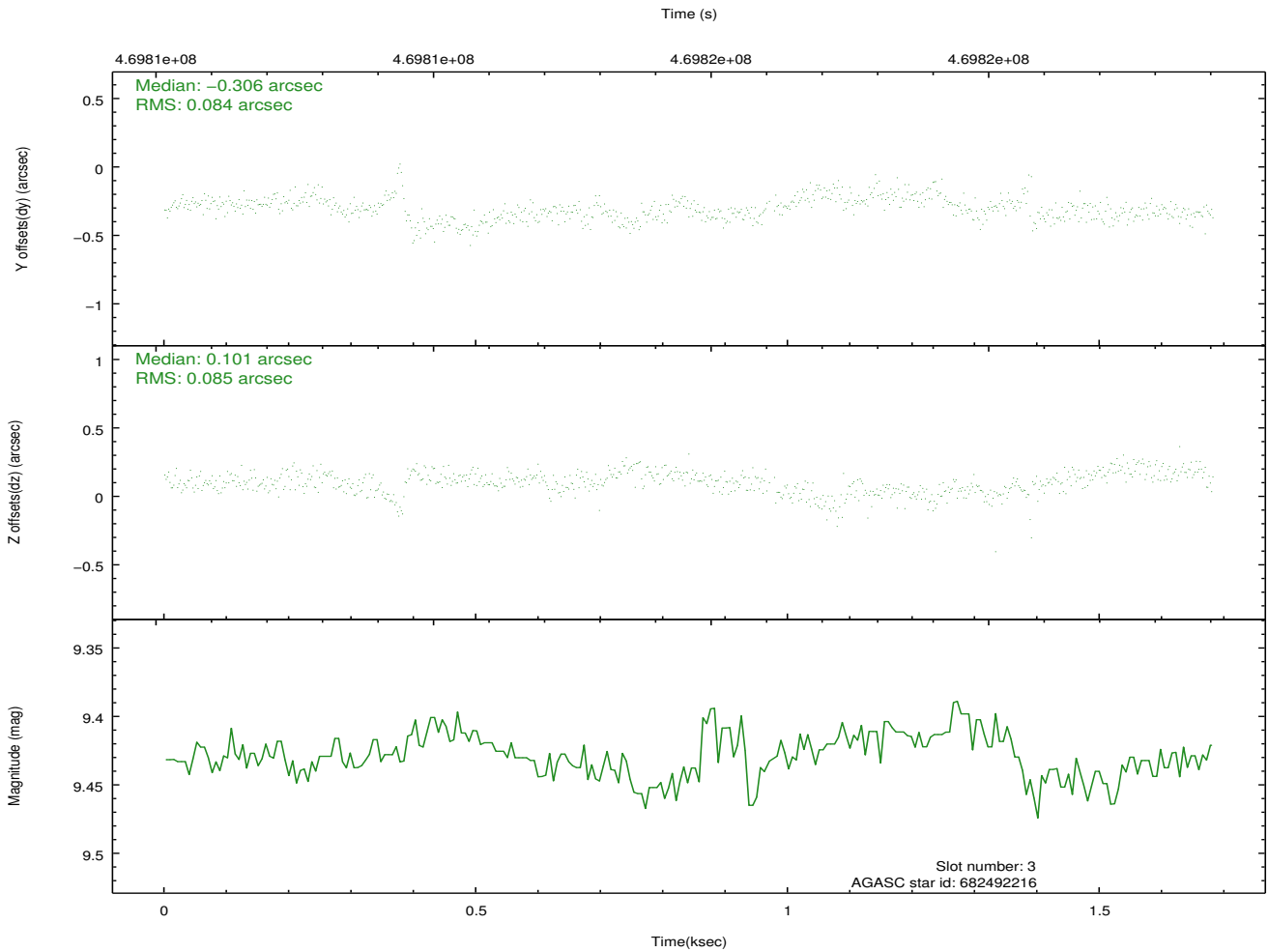
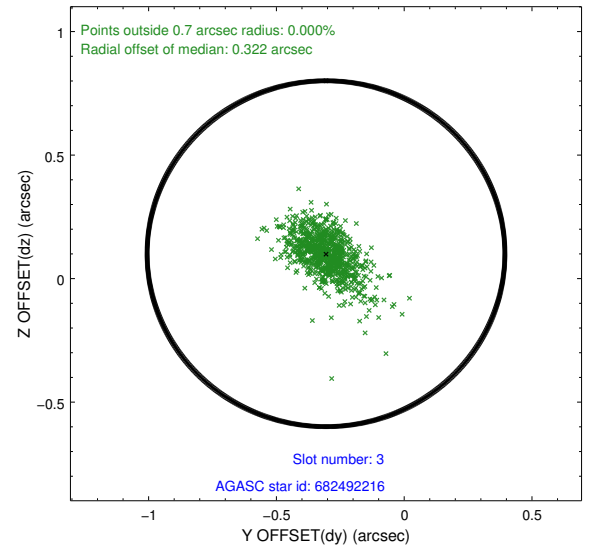
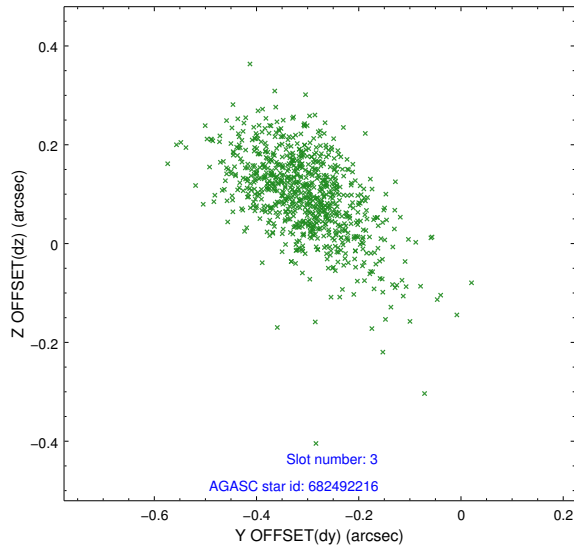


Slot Statistics

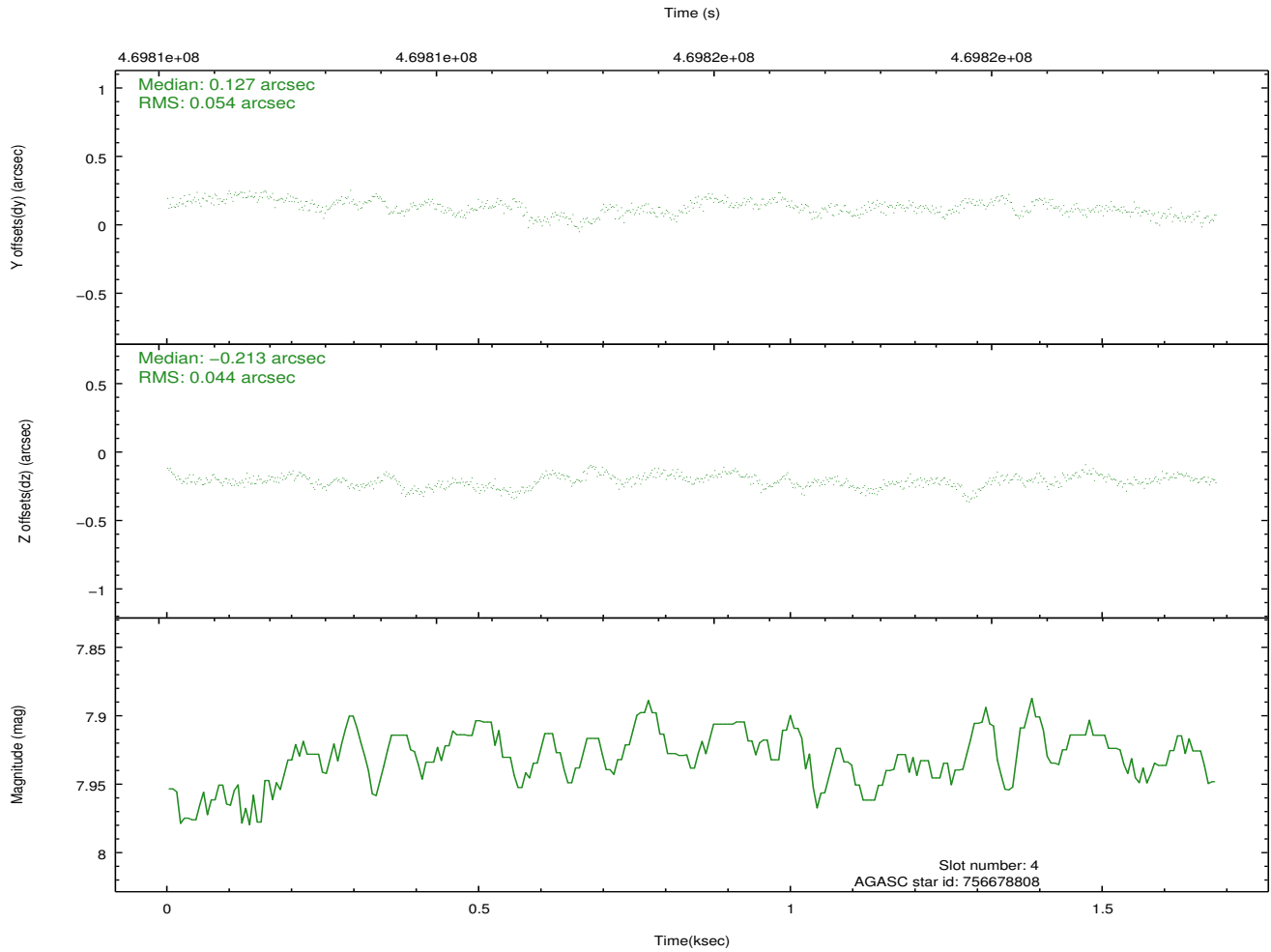
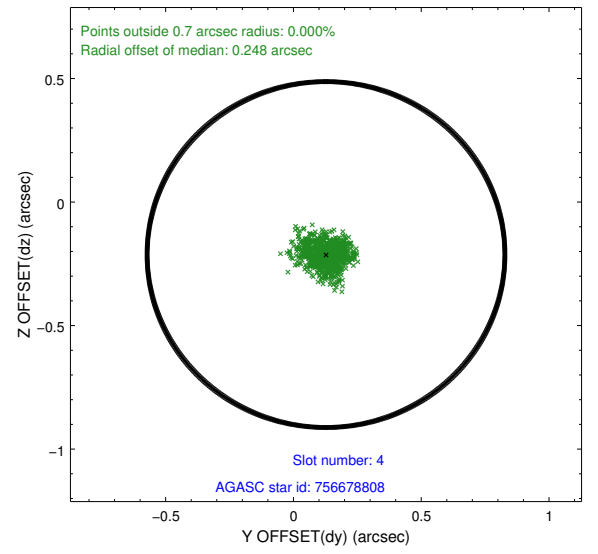
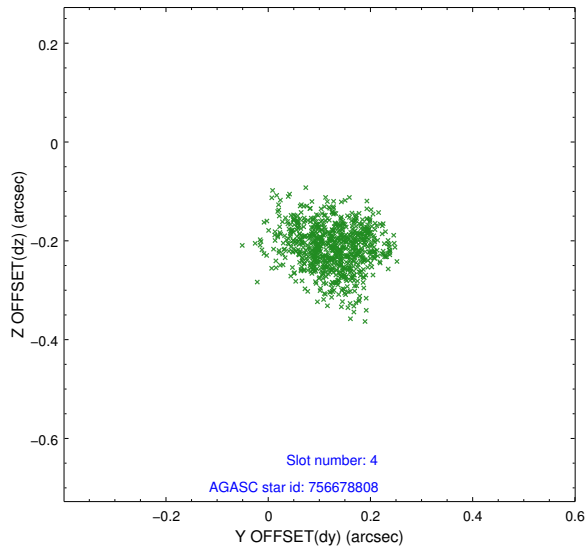
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	410	0.057	0.004	0.006	0.012	0.000000	0.000000	923.06	-1736.12
1	FID		ACIS-S-5	7.06	410	-0.158	0.033	0.007	0.012	0.000000	0.000000	-1824.00	157.37
2	FID		ACIS-S-6	7.16	410	0.080	-0.026	0.007	0.012	0.000000	0.000000	384.34	805.73
3	GUIDE	used	682492216	9.43	817	-0.306	0.101	0.116	0.216	321.280803	-7.039583	-1887.64	1536.26
4	GUIDE	used	756678808	7.93	821	0.127	-0.213	0.074	0.118	321.235825	-8.179223	1931.34	39.29
5	GUIDE	used	756681288	8.07	821	0.066	0.006	0.070	0.113	320.482936	-7.521004	-1181.89	-1724.05
6	GUIDE	used	756681672	8.76	820	0.048	0.041	0.098	0.153	320.623223	-7.508712	-1063.55	-1238.12
7	GUIDE	used	758391200	9.66	818	0.057	0.066	0.126	0.210	321.793565	-8.009857	2013.30	2112.38

2.4 Star Slots

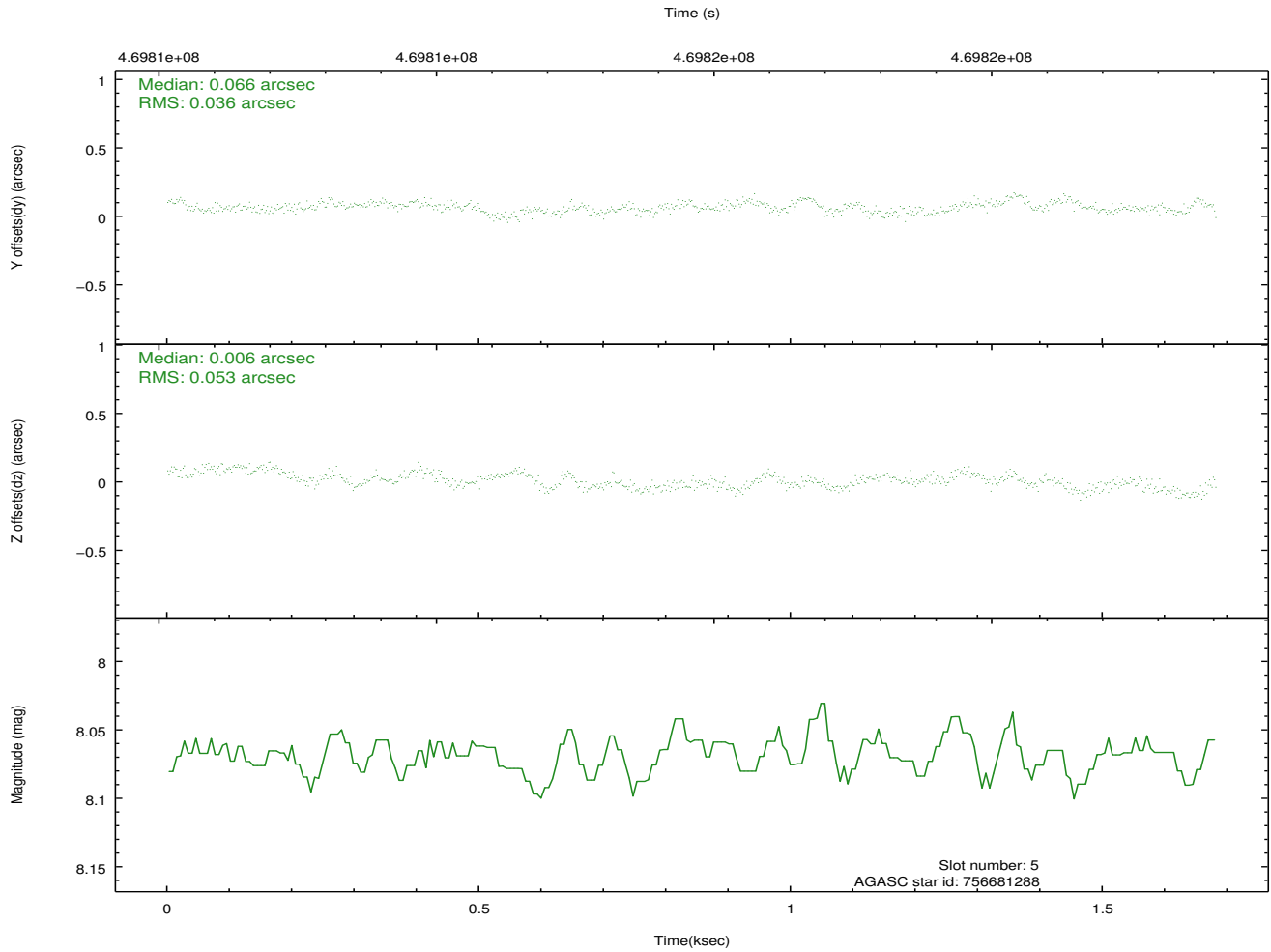
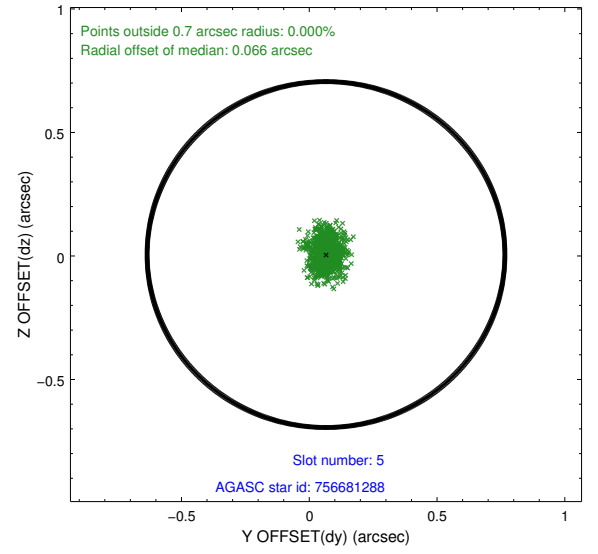
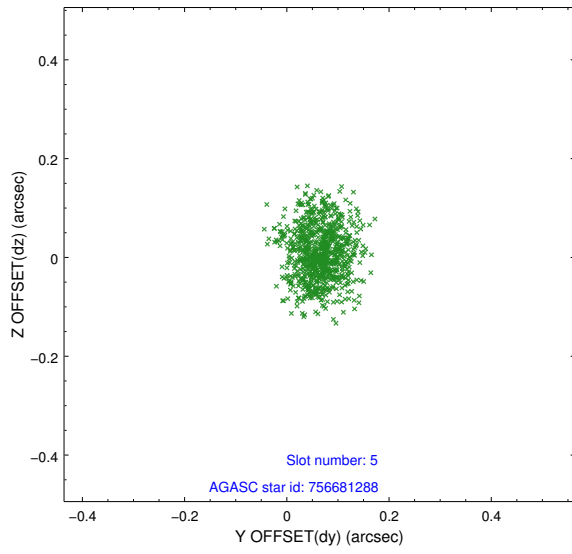
2.4.1 Slot 3



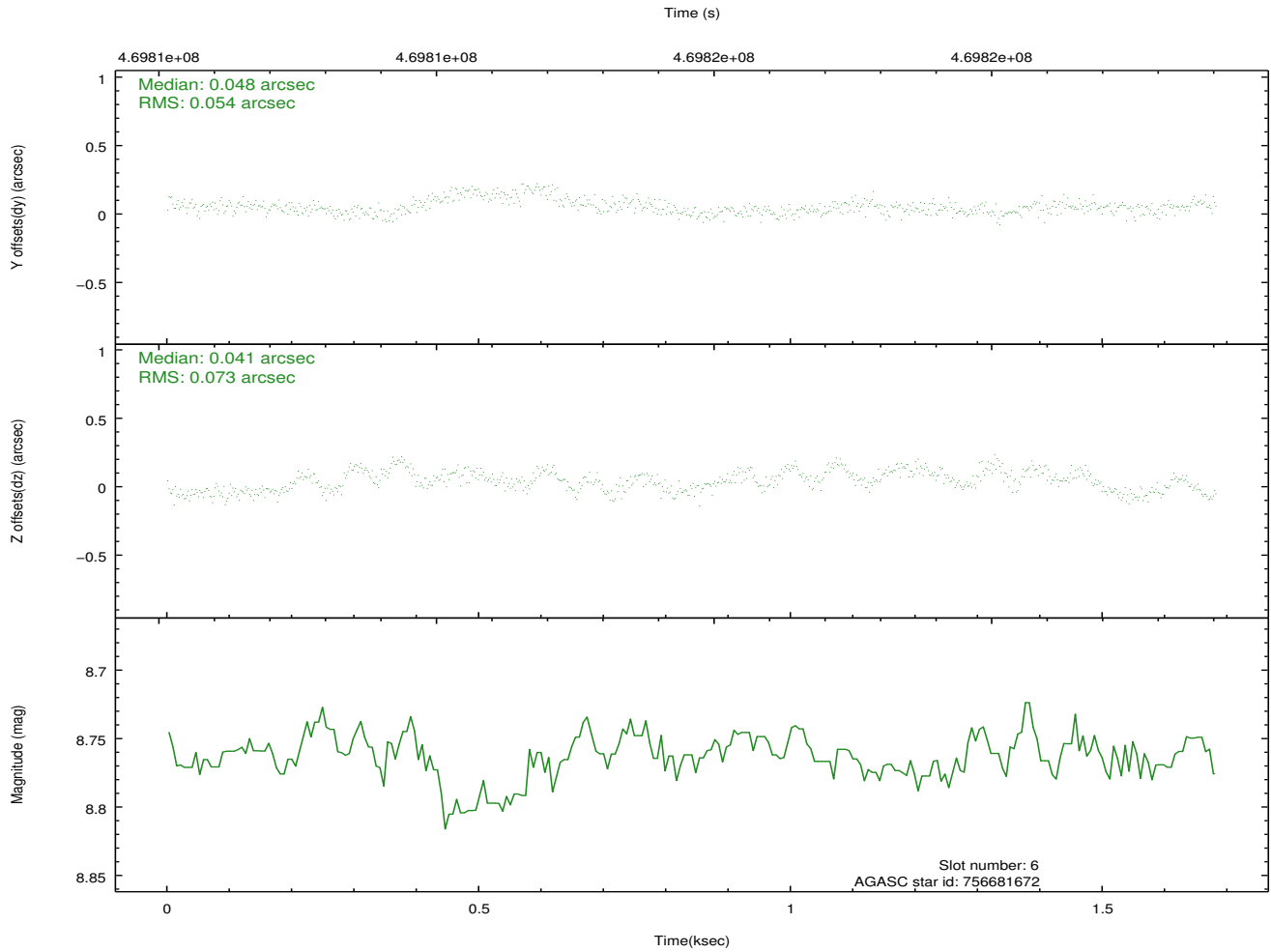
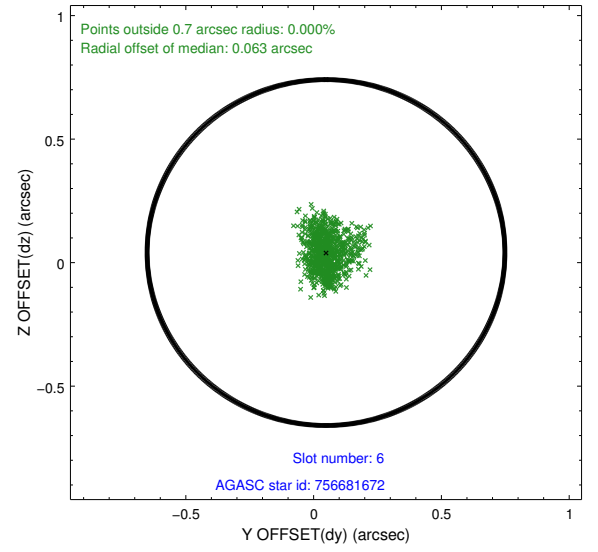
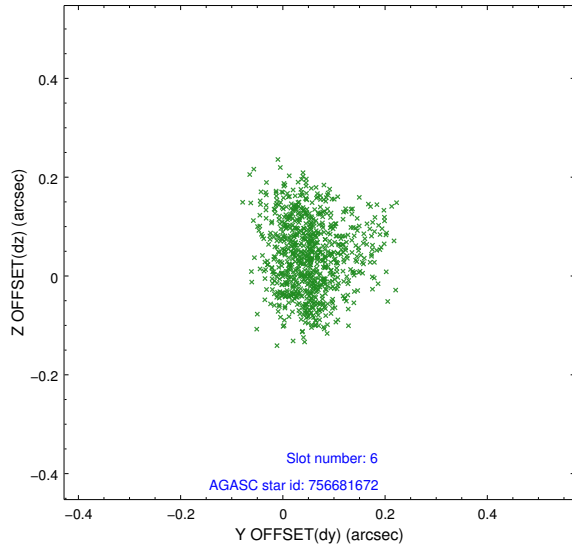
2.4.2 Slot 4



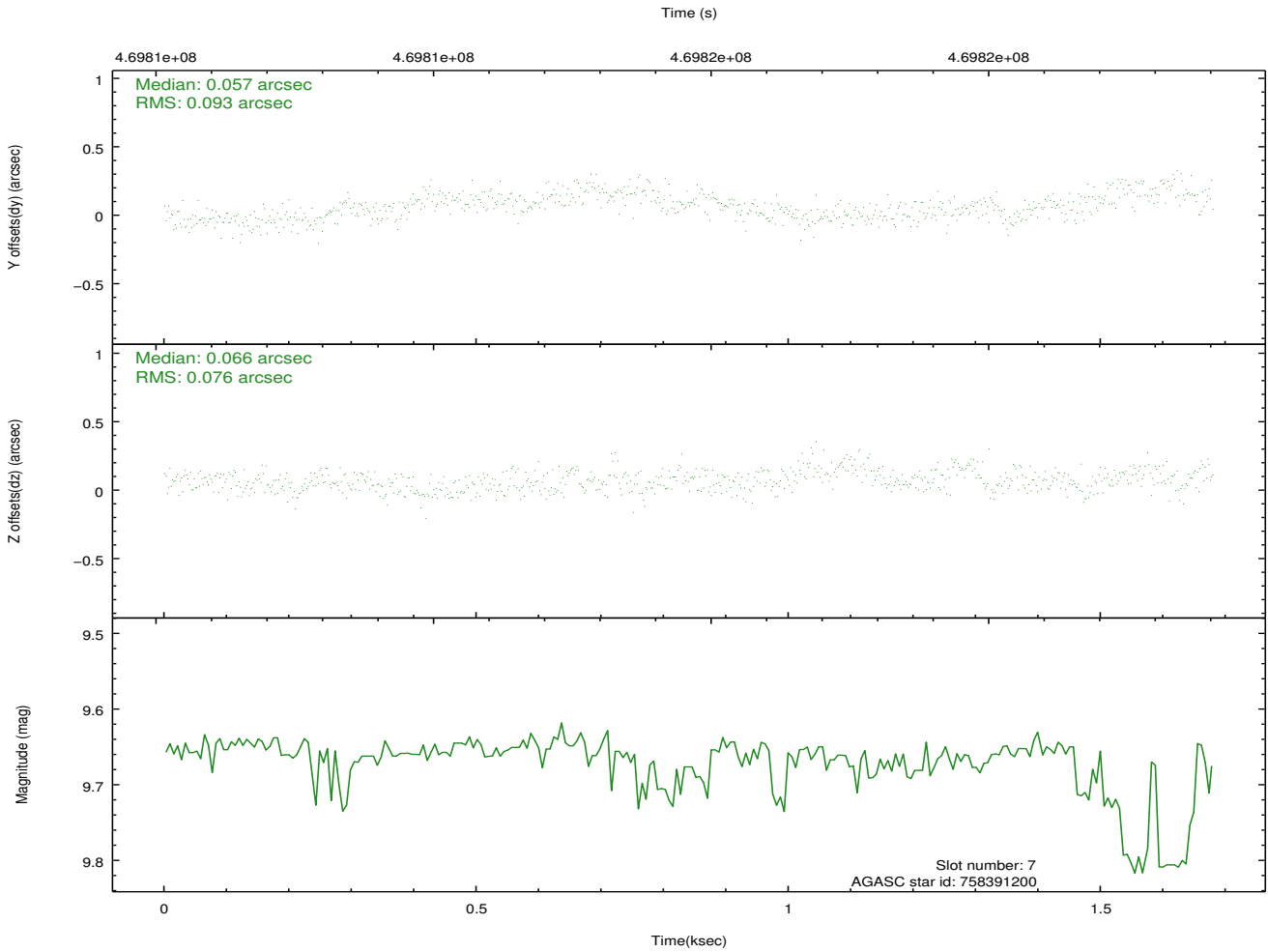
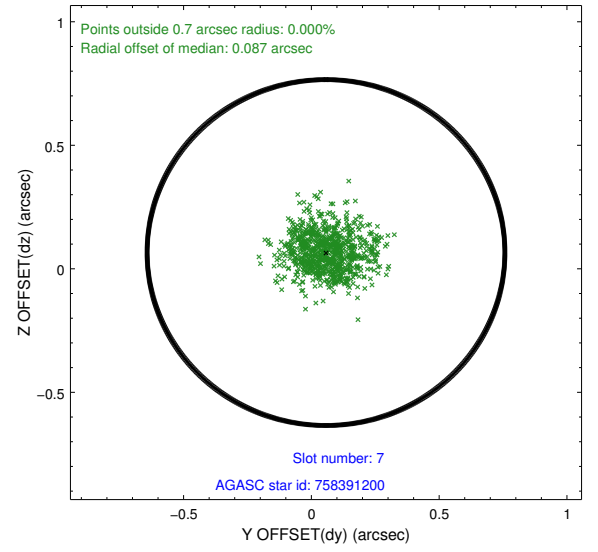
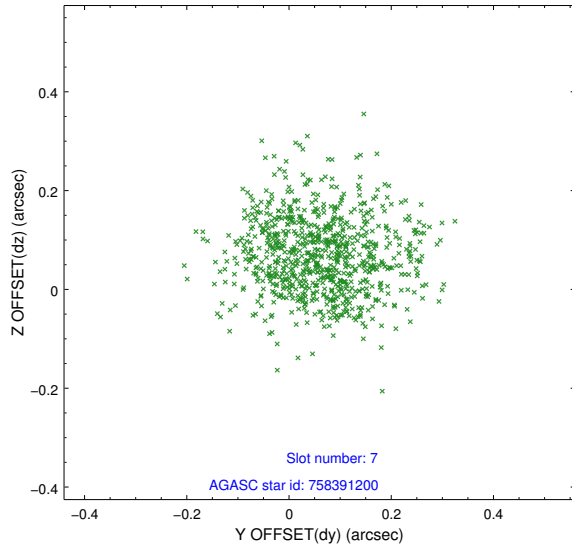
2.4.3 Slot 5



2.4.4 Slot 6

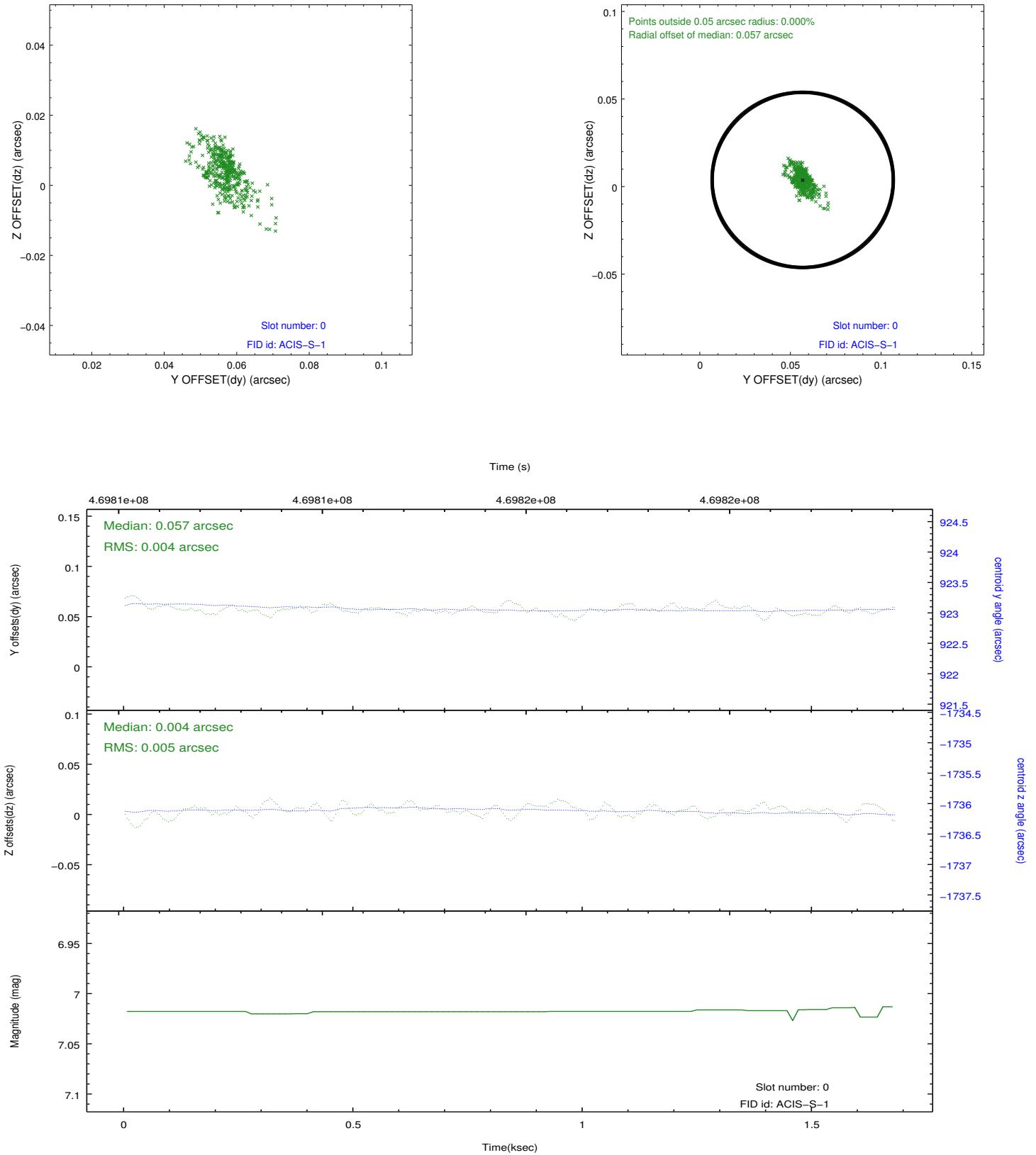


2.4.5 Slot 7

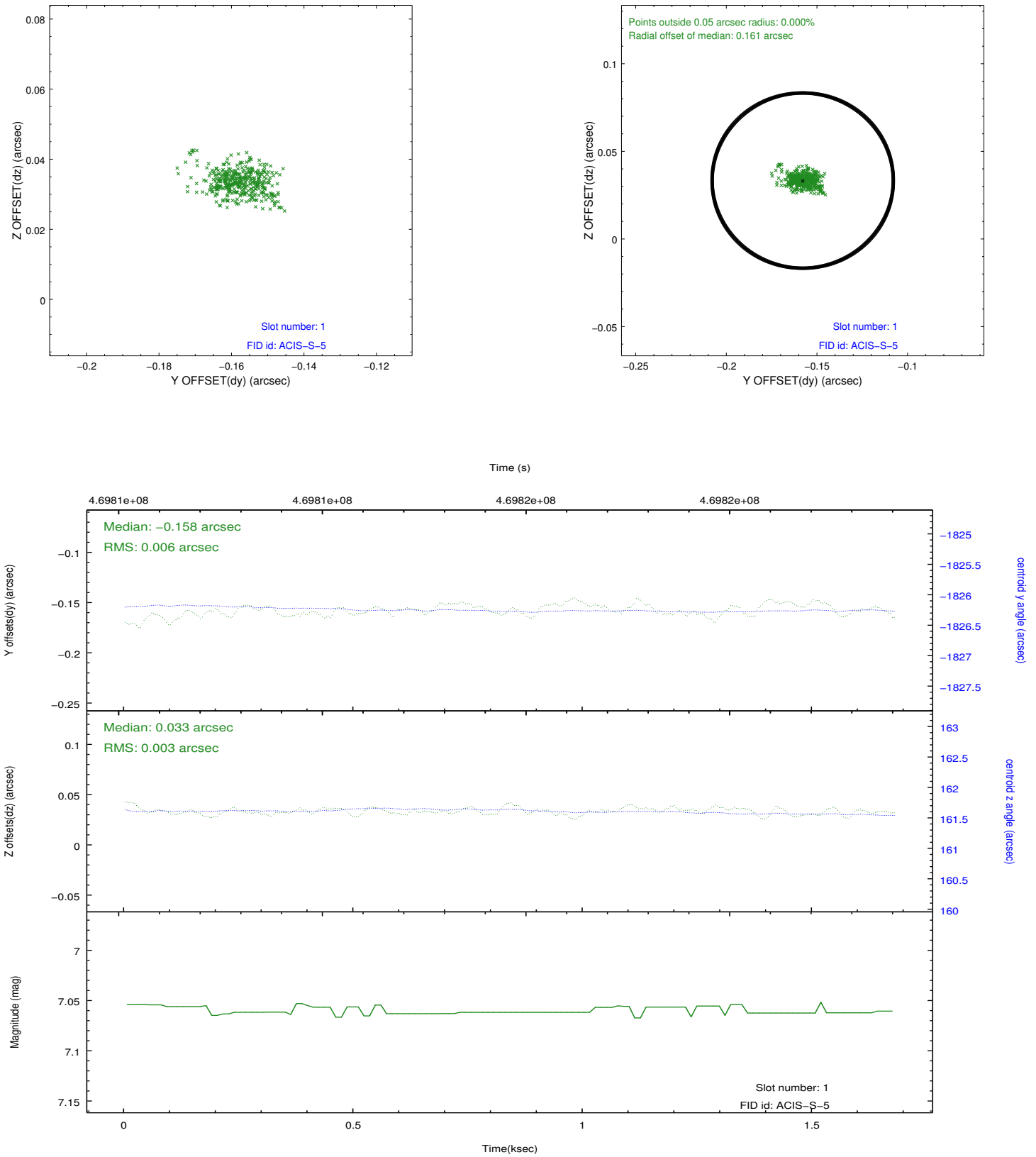


2.5 FID Slots

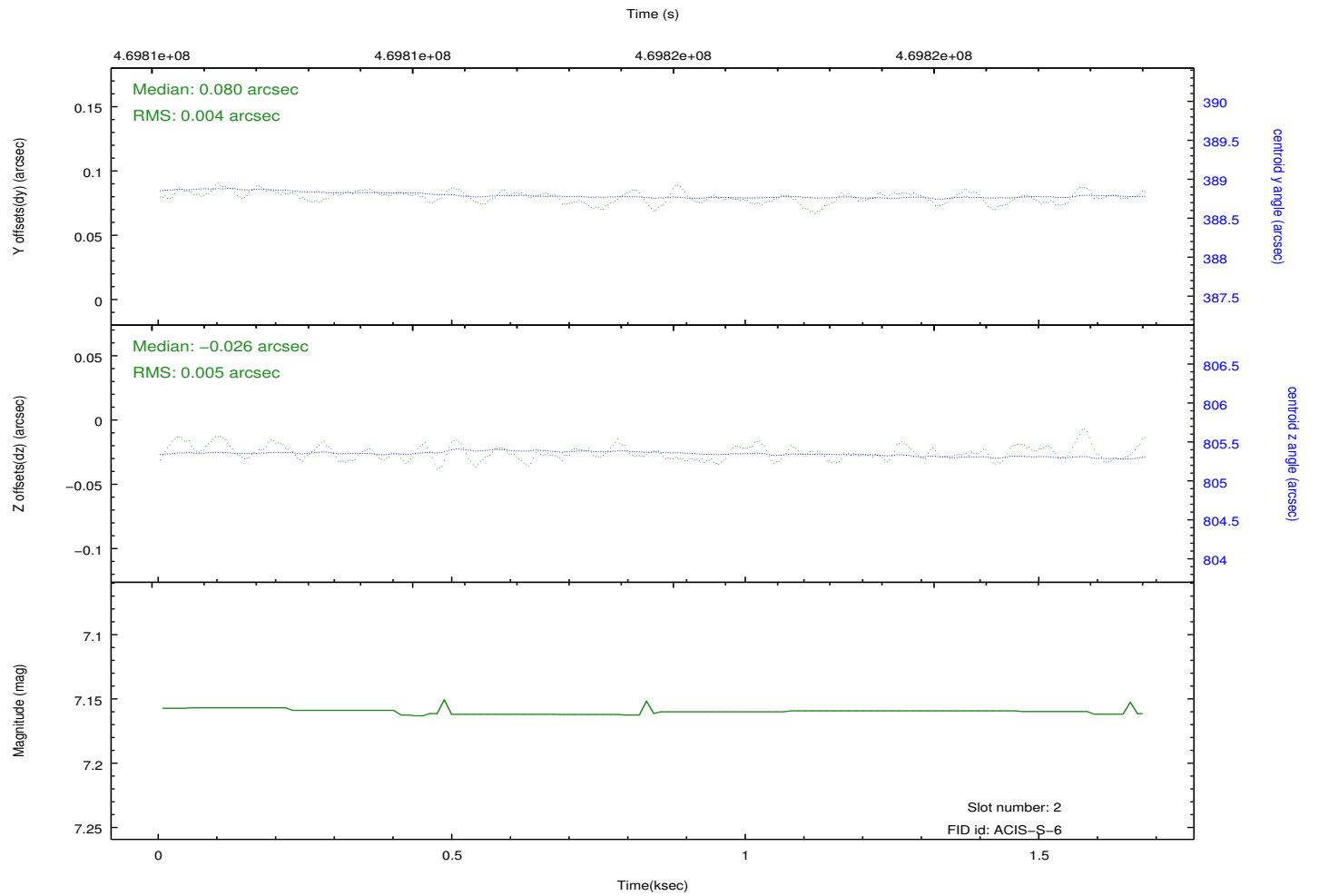
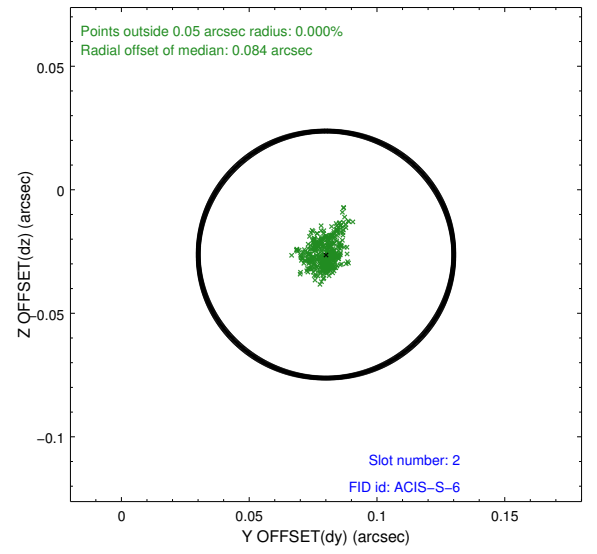
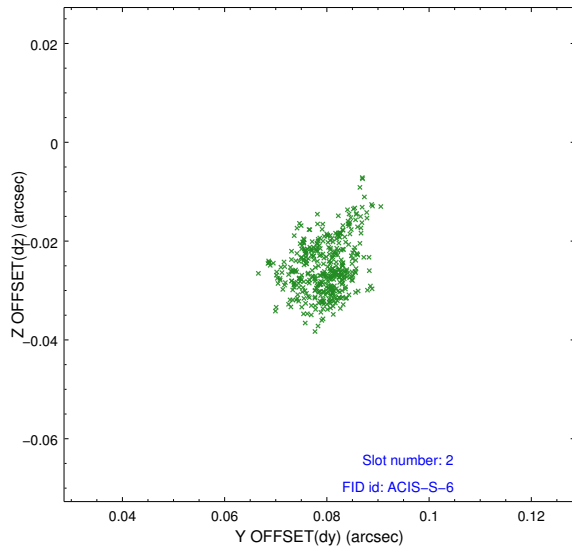
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5929999577999

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.